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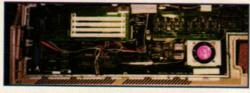
ISSUE 85 AUG 1996



REVIEWS

20 BLOWUP FX BOARD

Three upgrades in one make the new Blow-Up FX board superb value for Falcon owners.



A screen expander, RAM upgrade and hardware accelerator rolled into one. Too good to be true? Check out page 20.

22 FACE VALUE

Give your GFA Basic programs a much needed face-lift with this utility from System Solutions.

23 ATARI INSIDE CD-ROM

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24 MASTERPLAN

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Alien Thing – The Director's Cut is just one of many games due for release on the ST and Falcon. Find out more on page 27.



New Jaguar beat-'em-up Fight For Life is reviewed on page 30.

28 THE POWER AND THE GORY

A fully-fledged war game for the ST. Find out whether it will appeal to pacifists.

29 ROAD RIOT 4WD

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30 FIGHT FOR LIFE

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31 PRIMAL RAGE CD

...and lucky CD-ROM owners get another fighting game to vent their frustrations on.

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Another superb game from the author of HERO stars on another packed Cover Disk.

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ABC Jul-Dec 1995

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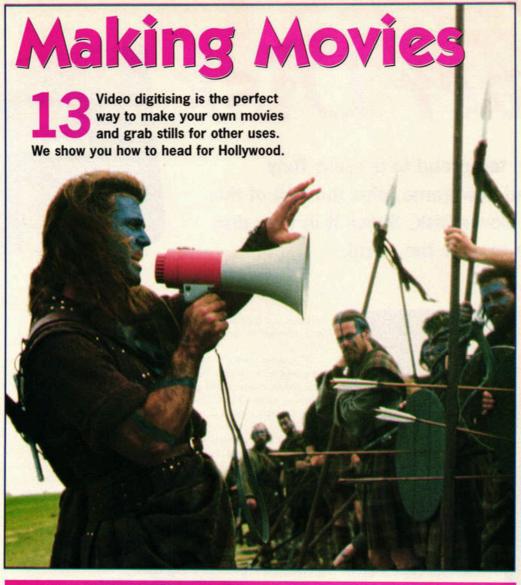
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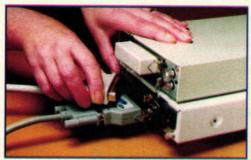
Create, direct and edit your own movies, all with the help of your trusty Atari. Frank Charlton yells, "Lights, camera, action!"

36 CD-ROM FOR BEGINNERS

It's very easy to connect a CD-ROM drive to your ST when you know how. We show you the way.

CONTROL IS EVERYTHING

Control panels are small, discreet and invaluable utilities. Discover more with our guide.



Connecting a CD-ROM drive needn't be a hassle. Find out more on page 36.

ABSOLUTE BEGINNERS

Unravel the secrets and uses of RAM disks.

ATARI FORCE

Cavan Scott looks at the unique series of DC comics which were bundled with early Atari console games.



COVER DISK 85

THIS MONTH...



SLAND STRIKE: Rescue hostages, blow up bridges and blast anything that fires back in this addictive helicopter game. All Ataris, 1Mb. Uncompressed size: 214K

ZCONTROL: An updated version of Atari's control panel Accessory. Comes with a selection of CPX modules: FileInfo, Lock, Reversi and Magic Mouse. All Ataris, minimum resolution 600x400. Uncompressed size (with CPX modules): 286K

FACE VALUE: Two demo programs showing off System Solutions' new utility for GFA Basic users. All Ataris, requires 1Mb. Uncompressed size: 326K

1ST GUIDE: View images, sound samples and text files with one Accessory. All Ataris. Uncompressed size: 159K

MARCEL 2.3.4: Latest version of this powerful and popular shareware word processor. All Ataris, 1Mb recommended Uncompressed size: 356K

MAXIDISK 2.2: RAM disk utility which speeds up file access. Accompanies our Absolute Beginners tutorial (see page 46). Size: 7K





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Cover Disk

Nick Peers is only too proud to present Tony Greenwood's brand new game, plus the rest of this month's storming Cover Disk. Shove it in your disk drive and prepare to save the world.



ISLAND STRIKE



eals your targets, so you've no excuse for sing a barn door from less than ten yards

> By: STOSSER Software **Machines: All Ataris** Memory required: 1Mb Resolution: ST low/medium Uncompressed size: 214K

HERO's author has done it again! Island Strike is a superb shoot-'em-up strongly reminiscent of that classic, Desert Strike. A joystick is required.

Strike one

It's the usual American action movie spiel: some rich madman has decided he's going to take over the world, and the US government has sent you in to sort him out, singlehandedly of course. In this variation on the theme, you're flying a helicopter on a number of missions to 'take this guy out.' In true macho fashion, this involves blowing up lots of things and people. Oh, and rescuing a few

hostages, too (I guess that's quite important as well - Nick's Alter Ego).

Control is via the joystick. It's a little tricky at first, but once you've mastered the controls they make a lot of sense. Move the stick up and down to speed up and slow down, or left and right to rotate your helicopter 45 degrees. Beyond that, you must manoeuvre around each level looking for bridges to blow up and people to rescue. Press [Fire] to blast at your enemies - after all, it's what they're

doing to you. Hitting things is a precision job though, so be warned.

You'll find your ammunition, fuel and armour strength drop quite quickly as you travel around firing madly and absorbing damage. It's therefore a great idea to pick up extra supplies to keep your nose above water (Or your helicopter above ground - Mary).

Boom!

Once you've dearchived I STRIKE.TOS to a blank disk (make sure it isn't inside any folders), double-click on I_STRIKE.PRG to run the game. Once you get to the

options screen, you'll discover we lied when we said you had to take on the baddies singlehandedly. In fact, you can select one of four different co-pilots. Each one comes with an extra bonus, be it extra armour, fuel, ammunition or map information.

The last bonus comes in useful when you press [Space] during play. This brings up a statistics screen which lets you know your current status and tells you where the nearest bridge, hostage, fuel,

ammunition and armour are (use [F3] and [F4] to cycle between them). If you have a navigator you are given

your own x and y co-ordinates, as well as those of the item, making it much easier to locate and collect.

Once you've found what you're looking for, slow your helicopter to a standstill over the item. It will be hoisted up and added to your dwindling reserves - unless it's a hostage, in which case you just go looking for the next one. Island Strike is freeware so you don't have to pay a penny for it, and more information can be found in I STRIKE.DOC.

MARCEL 2.3.4

Marcel is a fully functioning, well-respected shareware word processor. Version 2.2 appeared (by mistake - it was a long month) on Cover Disk 83, but this really is the latest version. It offers many new features and bug fixes.

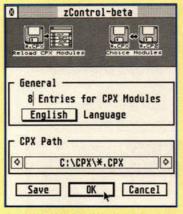
Once you've copied MARCEL.TOS to a blank disk and double-clicked on it to dearchive its contents, run MARCEL.PRG and open NEW_IN_2.3 to find out what has been changed. Don't forget to transfer the dictionary file from issue 83's disk across so



This really is version 2.3.4 of Marcel, and very good it is too.

you can use the program's spellcheck function. Find out more about Marcel in issue 83.





Installing and removing CPXs is as simple as

ZCONTROL 0.23

By: Ralf Zimmerwan **Machines: All Ataris** Memory required: 512K Resolution: Any

Uncompressed size: 163K

ZControl is an updated version of Atari's XControl. It enables you to install and run up to eight different mini-Accessories (known as CPXs).

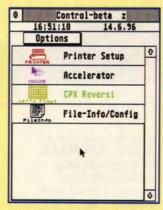
In control

ZControl offers several new features over its forebear, such as the ability to open up to

four CPXs simultaneously.

It's still in the early stages of development, so several features of ZControl have yet to be implemented. It doesn't yet fully support non-multitasking machines - when you boot up, you'll get a message claiming that ZControl won't work with single-TOS machines. This is misleading, because ZControl is still installed as an Accessory, and you can manually select and load CPX modules from the Desktop. You can also set it up to perform properly in a single-tasking environment see page 44 for details.

You can register ZControl through Denesh Bhabuta (read ZCONTROL.TXT for details).



ZControl enables you to install up to eight control panels at once.

START HERE!



Assuming you have a single-drive system, insert your Cover Disk back-up into the disk drive. Double-click on the drive A icon to access it. Next. double-click on the drive B icon



When prompted, remove the Cover Disk and insert your blank disk into the disk drive. Click on OK and a separate window should appear with the contents of the disk within it.



Next, click and hold down the left mouse button on the file or folder you wish to copy across to your blank disk Drag the file over to the drive B window before releasing the button.



An alert box will tell you to insert disk A (your Cover Disk) into the disk drive. Do so, click on OK and follow the on-



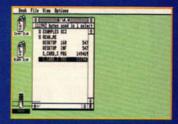
Just follow the instructions on the screen until the file or folder you wished to copy has been transferred. It'll be displayed in drive B's window. Now you're ready to dearchive your software.



Re-boot your ST with your blank disk 6 in the disk drive and double-click on the drive A icon to open up its contents.



Double-click on the TOS file to begin decompressing it. A list of files will be displayed as they are decompressed. You'll then be asked to press any key.



The relevant folders and files should now appear in drive A's window. To free up more disk space, drag the TOS file over the trashcan icon to delete it.

CPX MODULES

There isn't much point running CPX modules, so we've included a selection on this month's disk. Open up the CPXS folder and you'll find four further folders containing a selection of goodies.
CPX_MDLS: Contains four CPXs. Cookies, Show System Info and NVDI-Config are for technical types

while File Info enables you to view and alter statistics about any selected file.

LOCK: Enables you to protect your system from prying eyes with a password (current password STF). M_MOUSE: Contains the Maccel Mouse Accelerator, a utility and



The four major CPXs supplied with this month's disk can be accessed simultaneously with ZControl.

CPX for speeding up your mouse. REVERSI: Contains an Othello-style game to pass the time.

All four CPXs come with documentation explaining how they are installed and used. See page 44 for more information about control panels.

We've included a copy of MaxiDisk 2.2 to accompany our Absolute Beginner's tutorial. It enables you to reserve an area of RAM for use

as a virtual disk drive, labelled M (just as your floppy disks are labelled A and B). Find out more about RAM disks on page 46.

PROBLEMS?

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

Make a backup using the Back Up program. Never run anything except Back Up directly from the Cover Disk.

 If you have an old STFM and can't read the Cover Disk, you need to upgrade to a double-sided drive

If you are having problems with a Cover Disk program, re-read the instructions and any DOC files. If you still have problems, call the Cover Disk Hotline on = 01225 442244 on Wednesday afternoons between 2pm and 6pm only.

If you can't load, copy or back up your

Cover Disk, it may be faulty. Try calling our technical support line on = 0891 715929 (weekdays 10am-12.30pm and 1.30pm-4.30pm). Calls cost 39p per minute cheap rate, 49p at all other times.

Alternatively, send the disk, a padded self-addressed envelope and two stamps to: ST FORMAT August Disk Returns, Tib Plc, Tib House, 11 Edwards Street, Bradford BD4 7BH (if the disk is faulty we will refund the postage). Don't send faulty disks to our Bath or Somerton offices - we don't keep stocks of Cover Disks. If you have any other hardware or software queries, contact the publisher.

FACE VALUE

By: System Solutions **Machines: All Ataris** Memory required: 1Mb Resolution: ST medium

or greater

Uncompressed size: 326K

Face Value is System Solutions' new utility for GFA Basic users (for more information, read the review on page 22). Here are two demos showing you what can be done with it, one of which is capable of loading and cropping IMG files.

Facelift

Face Value enables GFA Basic users to take resource files created in another program and convert them for use in GFA Basic. Resource files make GEM programs attractive and easy to use, and we have two example programs to show you what Face Value

is capable of. The first is found in the EXAMPLE folder. Just double-click on EX.PRG and you'll find yourself inside what looks like a

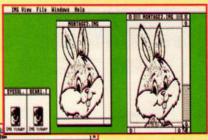
standard GEM program. Selecting any of the options from each of the drop-down menus brings up a different kind of dialogue box or GEM window. Experiment with them to discover what Face Value can help you produce.

The second program, IMG-View, is a simple IMG graphics file viewer created in GFA Basic with the help of Face Value. It enables you to load, crop and save monochrome IMG files. An example file is provided with the program.

The final folder simply contains TIF images of example windows and dialogue boxes created with Face Value.

Full version

Face Value is being distributed in the UK by System Solutions. If you like it, you can order it by calling = 0181 6933355.





mple of a GFA Basic help of Face Value

The example program supplied with Face Value monstrates the variety of

WE WANT YOUR PROGRAMS

We pay for your software - so if you have anything that's good, original and preferably short that you think deserves to go on ST FORMAT's Cover Disk, send it with this form and full documentation to Nick Peers, Cover Disk, ST FORMAT, 30 Monmouth Street, Bath, BA1 2BW.

lame	CONTRACTOR OF THE	1000000	THE PARTY OF	
ddress				

Daytime phone ___ _Program title

_Total size in K _ On a separate sheet, explain what the program does and why it's so brilliant. Remember to: ■ Include on-disk and paper documentation ■ Write your name and address on the disk ■ Use a virus-free disk ■ Keep a copy of your program, contributions are non-returnable ■ Enclose an

attractive bribe. Replacement front brake discs would be nice... ■ Not that it makes a difference. Please sign the following declaration: This program is submitted for publication in ST FORMAT. It is wholly my own work and I hereby agree to indemnify Future Publishing against any legal action should copyright problems arise.

GROVEL, GROVEL

As Nick is carried off to Bedlam and the sound of hysterical laughter still rings through the ST FORMAT office, let us fill you in on what has happened with Player Manager this month.

It's missing. Again. But we are hoping that by the time you read this our sedated Editor will have a copy in his paws, ready for next month's disk. Your patience is most appreciated.



1st Guide on the Falcon. It takes advantage of the current resolution, displaying pictures in as many colours as are available, and dithering where necessary.

1ST GUIDE

By: Guido Vollbeding **Machines: All Ataris** Memory required: 512K Resolution: Any

Uncompressed size: 159K

1st Guide is a simple-to-use Accessory which enables you to view image and text files and listen to sound samples.

Multimedia

There are squillions of uses for 1st Guide. First, it is a fine viewing tool for a variety of graphics, sound and text formats - see the panel below. Because it is an Accessory, you can access it from within GEM programs or from the ST's

Desktop, making it useful when you need to view a file.

All you need to do is install 1STGUIDE.ACC as an Accessory (see issue 83's Absolute Beginners section). Whenever you need to view a file, just select it from the Desk menu. The file selector will appear, enabling you to locate and select the required file. Once loaded, it appears in a window, and if you hold down the left mouse button over it you can select a few options. Graphic files can be resized or made to look transparent, and samples can be speeded up or slowed down.

It is possible to create hypertext links between the various files - we'll be explain-

ing how in a future issue. There are simple English instructions, but the program itself is all in German. Most options are selfexplanatory, though. A fully anglicised version will be available later this year - look out for it on a future disk



1st Guide is shareware, so don't forget to register if you intend using it regularly.

1st Guide supports a variety of popular graphical, animated, sound and text formats.

Graphics: IMG, IFF, GEM, PNG, JPEG Animations: MPEG movies Sound samples: AVR, SAM, SND Text: OUT, DOC and all ASCII text files

Other: RSC files

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The latest version of the exhaustive games compiled by The Mage is now available. You can collect it via an FTP connection to: users.aol.com:/ themage1/jaguar or by visiting the Web site at: http://users.aol.com/ themage1/jaguar/jagcodes.txt.

If you're very quick, you may catch the tail end of the Toad Comp Hardware Clearance Sale '96. As well as low prices on generic items such as hard drives, you could find used monitors and Atari computers, Falcon memory expansions and even tower cases at bargain prices. Contact Toad via e-mail at: info@toad.net, point CAB at: http://www.toad.net/ or phone # +1 410 5446943 for more details. Oh, and hurry!

Also new from Toad this month is the Bird of Prey collection, a CD-ROM aimed at Falcon users. Compiled by Matt Norcross and Scott McConnell of the band Any Questions?, Bird of Prey covers all aspects of the Falcon, from serious applications to music and MIDI. Toad claims that the CD is "application-heavy and light on fillers, like graphics files and MODs." Bird of Prey is available from Toad for \$29.95 - we haven't heard anything about a UK distributor yet.

Homa Systems is now the Canadian distributor for the Wacom Artf pressure-sensitive graphics tablet, complete with drivers for Atari computers. Also available is the art package Pixart 3, which supports both the pressure-sensitive and erasing capabilities of the Wacom pad. 16/32 Systems is handling both items in the UK, so watch for a review in the near future.

Another one to add to the list of Jaguar games that never were: Software has stopped development on the Jaguar conversion of its award-winning game Zero 5. The ST version won many awards, including an ST FORMAT Gold, and was a fast and adrenaline-pumping 3D space shoot-'em-up. Early screenshots looked promising but, alas, that's all we're ever likely to see now.

Following the recent story about hobby chain Beatties selling Jaguars for £50, more bargains have appeared in some stores. Latest sightings include the Jag £50, and cartridge games at knock-down prices - including Hoverstrike and Ultra Vortek at an amazingly low £15. Seemingly not all stores have stocks - we found these bargains at Gateshead's MetroCentre shopping complex - so check with your local branch before everything gets snapped up.



STF News.

KΠ



Frank Charlton is your little rubber float, here to keep you on top of the sea of Atari news.

Vorms wriggles in

You can give each of your worms its own name - but Tulip, Spadge and Windmill? Gadzooks.

Call up the toolbar and prepare to give your enemy's worms a right old hiding.



n the most pleasant surprise we've had this year, Team 17 has announced that its strategy game Worms is to be released for the laguar. This superb game has won many awards, including Most Original Game of 1995 at the ECTS Industry Awards in April. It was also voted Best Game by the viewers of the BBC's Live & Kicking.

A fun strategy game

viewed from a side-on angle similar to that of

Lemmings, Worms may not push back any graphical boundaries. Nevertheless, it's a game universally acknowledged for combining superb gameplay with a wicked sense of humour.

Up to four platoons of wriggling combatants battle it out for supremacy, using weapons such as bazookas and homing missiles to wipe out the opposition. It also offers

advanced tactical options, including air strikes and teleportation, and promises to bring a package of long-term enjoyment to the Jag.

Team 17 is hard at work on the Jaguar version, and expects to release it some time in August or September. With the recent spate of bad news about new Jaguar games, we're over the moon that such a major game is heading in this direction. Watch out for wriggly things, more news and a review very soon.

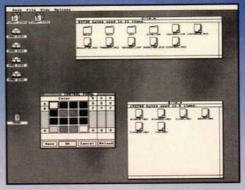
ON THE MOVE

Toad Computers is distributing two new packages based around Branch Always Software's Gemulator, an ST-emulator for PC compatibles. Gemulator for Laptops slots into Windows 3.1 and 95 notebook PCs, at last bringing a portable ST back into play.

The TOS ROM board has been replaced by a

copy of MagiC 2 on disk, enabling the Gemulator to fit into a portable. The result is a fast virtual STE. At the low price of \$70, or \$119 for a bundle including a copy of MagiC 2, it should prove popular with ST lovers who need to compute on the move.

Also available is Gemulator Classic, a re-release of the original version. It runs from MS-DOS in only 4Mb of PC RAM. Supplied with a set of TOS 1.4 ROMs, the Classic version offers true ST emulation for \$119. Toad Computers is on # +1 410 5446943 (or 800 4488623 for US callers).



It may not look like it, but trust us - this is a PC behaving sensibly, for a change.

PhotoLine

impressive yet simple interface, PhotoLine is brimming with serious graphical features



hotoLine, the new highend image editing and processing program from Germany, is now being distrib-

uted by System Solutions, and in Canada by Atari graphics specialists Homa Systems. The program comes in two versions

- for machines with and without an FPU maths co-processor chip - and is multitasking friendly.

PhotoLine handles images with full internal 24-bit precision, so you can work with TrueColour images even if your Atari can't display them. It boasts an impressive list of features, including the Unsharp Masking function usually found on expensive software such as Adobe Photoshop on the Mac and PC

Contact System Solutions on # 0181 6933355, or e-mail Homa at aa414@freenet. carleton.ca. A demo version of PhotoLine is available from Homa's Web site at: http:// www.magmacom.com/~nima.

SNIPPETS

Net News

Internet service provider ZetNet has unveiled new support for the A platform. ZetNet offers a full SLIP connection using dynamic IP addressing, and you can connect from anywhere in the UK at local call prices. There's a sign-up fee of £25, but the account costs a mere £6 per month, with discounts for Direct Debit subscribers.

Supplied software includes a pre-configured version of the Internet Access Pack and special support for Atari owners is provided by the capable David Henderson, moderator of the n.st.comms. internet newsgroup in NeST.

Point CAB at http://www.zetnet. co.uk/ or call = 01595 696667 for more information.



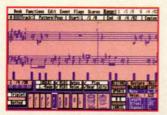
Another Internet provider supporting the ST? That is certainly good news.

Version 1.31 of the Internet Access k is now available from major PD libraries and just about every FTP site which supports the ST. The pack features applications for Web browsing, POP3 e-mail and numerous other services. It also includes a new Internet Relay Chat client which supports more IRC commands and offers different colours for incoming and outgoing text. Coincidentally, it's reviewed in this month's PD section - see page 33.

The June update of Jonathan Nott's Atari Net Locator is now on-line at http://www.walusoft.co.uk/anl/. The pages have been redesigned and the menu page is now based around a more compact system for much faster downloading.

As well as updated versions of the exhaustive lists of newsgroups. FTP sites and e-mail addresses for people in the Atari community. Jonathan has added a new section: The Interview Slot. Jonathan plans to chat with a prominent Atari personality each month, and this time it's the turn of Colin Fisher-McAllum, SysOp of 42 BBS and head of both the Falcon FacTT File and the excellent AtariPhile HTML disk magazine.

Goodman's offers



A MIDI sequencer for only £15? It must be Goodman's Silly Summer Sale.

Goodman International has announced new stocks of Atari software at some amazingly low prices. As well as offering version 3 of the MIDI sequencer Pro 24 (STF 84, 91%) for just £14.95, Goodman's has the classic MasterPlan spreadsheet at an all-time low of £14.95 (see page 24 for a review).

Biggest bargain of the lot for cash-strapped arty types is Technobox Drafter, a professional CAD package with an original price tag in three figures. It's now available for an amazing £24.95. We'll be reviewing it as soon as we can. Contact Goodman International on **☎** 01782 335650.

LINK UP

Yorkshire-based Jag supporter The Console Centre has managed to reduce the price of one of the most sought-after pieces of Jaguar hardware: the JagLink networking cable. The lead, which connects two Jaguars via the expansion port at the back, enables you to play against the deadliest foe: a friend.

Games which support the link aren't exactly dropping out of the trees, but the obvious choice is iD's Doom. With two televisions, two Jaguars and two copies of the game, you can enjoy the most seriously playable head-to-head game ever.

The Console Centre's price of just £10 represents a £15 saving on the official Atari JagLink price. Give Matt Magee a call on □ 01484 544926 and prepare to meet thy Doom.



The fiendishly good Doom gets even bett when you're pitched against a mate.

Positive Image



will see a full review of Positive Image before ST FORMAT reaches 100 issues.

The long-awaited Positive Image is poised for immediate release and should be on sale by the time you read this. Originally expected late last year, when we gave it a full-page preview, Positive Image finally been finished and debugged.

Positive Image is a low-cost but high-spec image editing and processing suite for all Atari machines. It's not unlike PhotoLine, covered above. If

you're extremely quick, you may just catch the introductory offer price of £65 plus postage.

The latest demo version of Positive Image is available from Floppyshop, or via the Internet - connect to: ftp.wintermute. co.uk, change to the directory: home/s/steil/outgoing/ and download PI_DEMO.ZIP.

Contact Floppyshop on ■ 01224 312756 and watch for the review next issue. stf

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Making Movies

Your ST can capture still and moving images, enabling you to create your own movies. Frank Charlton heads for Hollywood.

his year we're celebrating the Centenary of the Moving Image. For exactly 100 years, we've been able to suspend disbelief and partake of a fantasy world composed of nothing more than rapidly-flickering still pictures.

Sound arrived much later, helping complete the illusion, but people the world over have been captivated by the movies since day one. Now – with a little help from your ST – you too can be director, camera person and star of your

very own movies.

The tech-

nology to

take still

and

moving images from the real world and import them into a computer has existed for several years – even the humble Sinclair Spectrum could grab images, after a fashion. While your ST may be limited to a 16-colour palette, it's still possible to get involved with digital video. The arrival of the Falcon, complete with its stunning graphical hardware, makes it an even more attractive proposition.

So, you can fill your ST's memory and disk space with lifelike still images and fluid moving video, but what's the point? Is it just a treat for the eyes, or can you actually do something with it?

Think about the DTP angle. You've probably used clip-art in one form or another, so why not digitise your own? If you have access to a video camera, you

can add

images of your home and family to your printed work. Quality mono and colour inkjet printers are now very affordable, so the output can be superb, and all the better for including familiar images.

If you're a games programmer, you can include more realistic graphics in your intros and cut scenes, or even use digitised sprites like those in *The Ultimate Arena*. If you're wired to the Internet, you can fill your World Wide Web pages with digitised imagery and show the global village just who you are. Another Net vogue is to have a picture of yourself ready to break the ice on talkers and Internet Relay Chat.

Join us as we dip our virtual toes into the world of moving images and your ST. We'll be covering everything you need to know, from what to buy and how to get to grips with it through to hints and tips on polishing and storing your final creations. You might not earn his salary, but your ST can make you the Stephen Spielberg of your family.

Pre-production

Before you assemble the cast, you need to give some thought to your equipment. Here's what you need to capture moving images.



Many video recorders offer both SCART and phono sockets. Use the SCART connector if possible, because it provides a better RGB signal.

s well as your ST or Falcon and video digitiser, you'll need some extra bits and bobs before you get started. The most obvious thing you require is a video source. Since all digitisers need a signal in either composite video or S-Video, you can't just whack in an aerial and grab from live television. You'll need something



Buy a universal SCART connection kit if you have a video or camcorder with a SCART socket. You'll be able to connect it to almost anything else.

capable of outputting suitable signals, such as a video camera or camcorder.

If you don't have access to a camera, the most obvious source of video footage is television or pre-recorded video tapes. However tempting they might be, remember the thorny issue of copyright. It's unlikely you'll get sued for filling your hard drive with grabs from the latest Schwarzenegger blockbuster, but distributing images from well-known movies is asking for trouble.

Other possible sources include

DIGITISER ROUND-UP





Exposit your both APEX Media and the supplied FalCAM software to grab moving and still images.

Exposé Falcon

Exposé is easily the best digitiser available for the Atari machines, but only runs on the Falcon. Thanks to its direct connection to the motherboard, it grabs at ripping speeds and produces superb stills even from fast-moving video sequences.

In conjunction with APEX Media, Exposé can snatch moving video sequences at a healthy rate, and APEX can save them as PCand Mac-compatible FLC files. Used with the supplied FalCAM Tripod software, Exposé can also produce stunning stills from a steady source, such as a camera. A separate RGB splitter is provided, and the whole kit is very fast indeed.

Expose can accept video signals as either composite video or the superior quality S-Video, if you have appropriate equipment. For overall quality, it really can't be faulted—it's more expensive than the other options, but given the speed and quality it's money well spent if you're serious about video digitising. It's Falcon only, but it's also a very good reason to buy a Falcon.

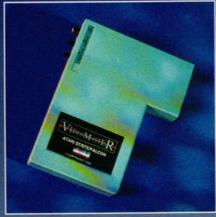
Exposé Falcon (STF 75, 96%) £279, Titan Designs

VideoMaster Falcon
While the standard ST version of the VideoMaster runs quite happily on Atari's enhanced machine, it doesn't take full advantage of the superb graphics capabilities of the '030 machine. VideoMaster Falcon is custom-built for the higher colour palettes, and works well.

Basically, it's VideoMaster ST with knobs on. The capturing and editing software is much the same as for its little brother, but it can grab much more colourful images. Unlike Exposé, it still uses a slower cartridge port connection, so



VideoMaster Falcon's software is essentially the same as the standard ST version.



deoMaster comes in both Falcon and ST guises

it doesn't offer the larger image sizes of Titan's hot hardware. However, it's a lot cheaper. VideoMaster Falcon offers moving video

capture at 25 frames per second, in colour. The colour information increases the memor used by moving footage, but at least the Falcon can be expanded past the ST's 4Mb limit for larger sequences. The multimedia sound snatching functions are still there, but the Falcon's dedicated audio hardware produces much better results.

It isn't up to the Exposé's standard for still or moving video, but it's an absolute steal in comparison, and enormous fun to tinker with.

 VideoMaster Falcon (STF 53, 92%) £89.95. HiSoft

JARGON BUSTERS

sed on some camcorders and VCRs. Composite Video: A system which combines red, green and blue video signals into a single stream. It's found on most home videos as a

A method of broadcasting digital stereo sound via television transmissions. See SCART.

A simple push-in connector used by hi-fi gear as well as most domestic video recorders. You either have one each for audio and video, or three sockets on a stereo VCR. Connection with separate wires for each of the three colours. It's used on monitors, but isn't common on video equipment.

plitter: A device used to separate a video signal into the red, green and blue components required by video digitisers.

SCHET A 21-pin 'universal' connector which carries video, audio and control signals, mostly used in Europe.

S-VHS: Super VHS, providing enhanced picture and sound quality. It's very expensive and not backwardly compatible

Superior quality connection method which splits a signal into chrominance and luminance values - colour and light brightness, effectively.

Video Home System, the video recording format invented by JVC and in common use worldwide.

LaserDisc players, VideoCD machines such as the Philips CDi range and even other computers and games consoles.

Needless to say, the better the quality of your video source, the better your grabbed results will be. Digital formats produce superb results, but CDi and LaserDisc machines are expensive, and you can only digitise from prerecorded media.

Home video recorders produce good results providing you use a good, clean tape rather than one your mother has used for the last 250 episodes of Coronation Street. Invest in a high-quality tape if you can, and avoid four-hour tapes - they're more prone to snapping if you rewind and fast forward a lot while you're grabbing.

Best of all the options is a camera of some sort. If your family has access to a camcorder you can point it at whatever you like. Creating digitised versions of your own videos is not only free from copyright hassles, but also more fun than plucking stills from pre-recorded tapes.

Depending on the age of your video



With a SCART plug, one simple connection handles video, audio and the control data needed by your video gear.

source system, you may need extra leads and adaptors before you get started. All but the most ancient systems provide a wealth of connection options.

If you're using an older top-loading video recorder, you'll probably find that all it offers are the old 'twist and lock' BNC connectors. All isn't lost, though, as long as there's one labelled something like Video Out. It will be a composite video signal suitable for feeding into a digitiser.

You probably won't be able to find video leads with BNC at one end and phono plugs at the other in High Street shops, but specialist electronics dealers such as Maplin carry them. Failing that, the best purchase you can make is one of the generic 'video copying kits' from any video shop. These supply a basic set of leads along with plug-in adaptors for both ends of the cable. For a little over a tenner, you'll have the tools to connect any video source to your digitiser.

Most of the front-loading video recorders produced in the last ten years have a set of phono sockets for video and audio output. Since all the digitisers we're featuring have phono inputs, a simple set of leads from any hi-fi shop will suffice. The most modern VCRs have SCART connections - multi-pin sockets which carry all the signals both to and from the video recorder. Again, a copying kit will provide the adaptors needed to interface the video with your grabber.

There is another extra which will improve your work immensely - a hard drive. With only 720K per floppy disk, you'll soon run out of storage space when you get grab-happy. Hard drive prices have tumbled over the last year, and now is an excellent time to buy.



Vidi-12 was the final product from Scottish hardware guru Rombo, which has since moved on to the PC market. It offers digitising hardware capable of grabbing in up to 4096 colours and an integrated RGB splitter in one compact box.

The Vidi software is the weakest of the bunch as far as ease of use goes. It's an odd mixture of standard GEM and a non-standard Amiga-like shaded interface.

While Vidi can grab at the standard 320 x 200 resolution or in much larger sizes, it also seems to be the slowest, and it really does need a solid still frame to lock on to. Of the four we tested, it gives the worst results with moving video - both motion and colour blurring is evident - but it produces stunning pin-sharp grabs from a still source. If it's colourful stills on any ST you're after, Vidi-12 is a winner. VideoMaster is the better option for moving video, even though the grabs are smaller.

 Vidi-12 ST (STF 54, 80%) £69.95, First Computer Centre

HISoft's VideoMaster digitiser is very much the budget model, but don't let that put you off. It can grab images in 16 shades of gray at 160 x 100 pixels from still or moving video. If you have a still video source, the optional ColourMaster RGB splitter can grab and save 512-colour images in Spectrum 512 format.
VideoMaster can grab smooth-moving

sequences at speeds of up to a fluid 25 frames per second, It's also the only device which can simultaneously digitise audio samples in sync

simultaneously digitise audio samples in sync with the video, and it's great fun to use.

The editing software is well written, and comes with a smart video sequencer which can be programmed to play sections of video in different ways. The manual also explains how to create auto-booting demo disks, and you can apply various special effects.

Like all of the budget sampling kit from HiSoft/AVR, VideoMaster is very easy to get to grips with. It's definitely best of the bunch for moving footage on a standard ST.

 VideoMaster ST (STF 42, 92%) £69.95, HiSoft



VideoMaster's software is simple to use. It has a clean well-designed interface with a good manual.

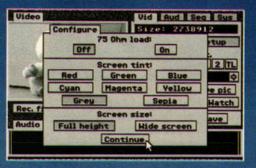
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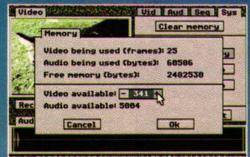
All the phone numbers you need for everything we've mentioned, in a neat cut-out-and-keep box. FaST Club = 0115 9455250 First Computer Centre = 0113 2319444 Floppyshop = 01224 312756 HiSoft Systems = 01525 718181 Titan Designs = 0121 6936669

On the set

Now you're ready to make a movie. Call the cast, set the lights, roll cameras... action.







to a decent value - 25 is ultra-smooth, but eats ry and disk space. Try 12 otable compromise. Click ec button and away you go





re-use sections of o repeatedly to create iger presentations. You n then create a all your friends, Empire azine, Spielberg...



o, how does all this video grabbing trickery work? Put simply, the heart of a video digitiser is an analogueto-digital convertor. In much the same way as the analogue movement of your hand on the mouse is translated into digital pulses your ST can decipher, the digitising kit breaks the incoming video signal into zeros and ones. This signal is fed to the digitising software, which recombines the digits into an image we can recognise.

Speed matters

Digitisers which can work faster, and therefore discard less of the incoming information, will produce larger or more colourful images. If your digitiser is slow at decoding and converting the incoming video, you'll be stuck with small grabs or simple grayscale pictures, or both

No matter how fast the actual grabbing hardware is, its effective speed is limited by the speed of the connection to your ST or Falcon. All but one of the digitisers we're featuring here use the ST's cartridge port to pass information to the software. Unfortunately, it isn't terribly fast, which usually means that digitisers for the ST suffer from the size and colour problems mentioned above. Of course, this doesn't matter much when you're grabbing from a still image, because the hardware can take as long as it likes.

Exposé, on the other hand, connects to your Falcon via the internal expansion bus. Since this is much faster, the Falcon can handle more information, producing larger and more colourful pictures.

Moving pictures

All digitisers produce better results if you're grabbing from a still image rather than constantly moving video.

Digitisers grab in three passes, picking up the red, green and blue video informa-

Exposé and APEX can save files which anyone with a PC, Mac, Amiga or Atari can replay easily

tion sequentially. If you're taking frames from a moving film, the image will have moved slightly between each pass of the digitiser. This results in the three colour channels being slightly out of synch, producing a slight colour blur.

Obtaining a still image with a video camera is easy - just point and shoot. Digital sources such as LaserDisc also produce good stills, but a lot of home recorders present a problem. Videotape is an analogue medium, so it's difficult for the video recorder to lock on to any single frame and hold it still. You can see why it's difficult when you consider that video footage runs at 25-30 frames per second.

High-spec modern video recorders often offer a 'noiseless' pause facility. However, you'll still find that cheaper tapes won't hold an image anywhere

TAKE TWO: VIDI-12 ST



Vidi's odd mix of GEM and a custom interface means you may find it hard to configure initially. You'll need to set the grabbing options carefully.



Next, set the Mix options. Vidi grabs each of the three colour channels separately, so you can mix a finished image in lots of different colour depths.



With the grab options set to digitise at 320 x 200 (standard ST low res) in 16 colours, just click the Grab button and wait for a few seconds.



As long as you have enough memory, Vidi can hold multiple images in RAM at once. You can browse through them using the Carousel feature.



Vidi is unique in offering a built-in range of image processing functions to sharpen, smooth or generally clean up a grab before you save to disk.



Vidi can grab some exceptional still images. If your camera or a video recorder doesn't have a perfect freeze-frame you'll be disappointed, though

near as well as high-quality ones.

If you're stuck with a video with a pause function which produces white lines running horizontally across the screen, or 'noise bars', it's better to try grabbing from the moving images.

Calling the editor

You'll never ever shoot exactly what you want first time. If you're out filming with a camcorder and shoot something you know you won't be using, don't muck

about trying to wipe the sequence there and then. Wait until later and do your editing in the digital world.

One technique that's used a lot in the film and TV industry, both for digital editing of footage and normal analog videotape methods, is to build a library of 'stock footage'. Star Trek is a prime example: those classic 'beauty passes' where the Enterprise gracefully orbits a planet are all drawn from a library of pre-prepared clips. Rather than shoot new ones, the

editor simply drops in a stock shot. This footage can be re-used as often as you like.

Once you have a decent stock footage library, make sure you keep track of it. There's nothing worse than knowing you have a clip of the vicar cycling round the village in a grass skirt if you can't find it when you need it. There isn't any software available to help you keep track of video clips, probably because each package uses yet another file format, but a database program or even a simple text editor will do.

'Non-destructive editing' is one of the digital editing industry's buzz phrases. Put simply, it means you don't ever work on the only copy of a file. If you chop out a few unwanted frames, then decide you need them after all, you're in trouble.

When you come to use one of your stock clips, make a temporary copy of it before you begin. You can then chop and change as much as you like, knowing that you still have the original to fall back on.

IN LIVING COLOUR

Designing a hardware digitiser which grabs images in either monochrome or shades of gray is much easier than coming up with one which can handle continuous colour information. Grayscale grabbers ignore the colour data from the incoming video and measure the brightness of the signal, representing the image in shades of gray.

Computers process colour information by

Computers process colour information by mixing the three primary light colours of red, green and blue to form an image. Since each colour channel needs to be separated out from the main signal, you can't just feed raw video into a digitiser and get a colour picture. Each of the three channels needs to be split and processed independently by another piece of hardware – an RGB splitter.

The splitter works with one colour channel at a time. It feeds the data to the grabbing software, which recombines the three channels.

If you don't have access to an RGB splitter, you'll only be able to grab grayscale images from videotape. With a camera and a still image, however, you can get the same results using coloured pieces of plastic – RGB filters.

You place each of the plastic cels over the camera lens, then grab an image. Each of the coloured filters removes the other two channels, producing a pure image in one colour. The digitising software then remixes the three together to produce a colour picture. It's fiddly, but it produces excellent results as long as the image is absolutely rock-steady. Mount your camera on a tripod to minimise wobble.



These simple pieces of plastic can give you colour images – even with a monochrome camera!

On the screen

If your friends and family have access to an ST, you can create a special demo sequence if you're using VideoMaster. Exposé and *APEX* are even better, because they can save files which anyone with a PC, Mac or Amiga can replay easily.

A final option is to record your ST's output back to videotape. This does cause loss of quality, but VHS tapes are universally portable. Simply link the RF out on your ST to the VCR's RF in. The ST and video may be using the same channel though, so you might have to detune your video recorder slightly – the manual should explain how to do this.

Post production

You just need to apply the finishing touches, order the popcorn and prepare your speech.

nce you have some video footage safely stashed away on your hard drive, there are numerous things you can do to improve the quality and reduce the amount of disk space used.

If you've ever played with any sort of



The shareware GEMView is an easily affordable image compressor and convertor.

video digitiser, you'll realise how quickly your precious drive is filled up. Using a compressed image format for your stills means you can fit more of them on disk.

There is a confusing selection of different file formats, many of which are worth considering. Don't just use one format willy nilly - examine your stills and base your decision on its contents.

The most obvious compressed format is JPG. JPG compression scans the colour information in each picture, and strips out detail which the human eye theoretically can't pick up. While this means the files are very efficiently packed, the compressed image isn't identical to the original - JPG is a 'lossy' compression system.

JPG stores images in either 24-bit colour or 256 levels of grey, at any physical



A setting of 70% produces tight packing with no real

size. Don't use it for 256- or 16-colour images, and never use it for anything containing lots of text. JPG compression works best on images with smooth colour transitions, such as digitised video stills.

There are lots of programs which can create and view JPG images. If you can afford it, FaST Club's ImageCopy 4 is superb. Shareware application GEMView is the next best bet, but isn't as good at displaying images on 16-colour screens. Speed Of Light is excellent for viewing JPG files on an ST, and the Falcon's APEX image viewers are blindingly quick.

The GIF format uses a 'lossless' compression system - packed versions are identical to the original. It handles a maximum of 256 colours, but works well on grayscale or 16-colour images. All the programs mentioned above handle GIFs.

TIFF is another format worth considering. It's a lossless compression method and can handle any colour depth from mono up to 16.7 million colours. TIFF-capable software isn't as thick on the ground, but ImageCopy and GEMView both handle the format well. It is excellent for exact copies of your original files with reasonably efficient compression.

A final option is the PNG - Portable Network Graphics - format devised as a replacement for GIF by CompuServe. PNG uses a lossless method and compresses quite tightly in anything up to 16.7 million colours. At the moment, the only ST software capable of handling PNG images is Floppyshop's Positive Image.

Image processing

Running your grabs through an image processing program, such as Positive Image or Rainbow 2, can clean up 'spotty' pictures, making most compression methods more effective. You can also filter and tweak an image as much as you like, distorting family members until they're unrecognisable. If you're skint, look out for shareware or freeware packages such as Eclipse, ImageLab and PhotoLabor.

You could also add text and create fancy credit sequences for home videos, then transfer the whole lot back on to tape. Drop in next month as Denesh Bhabuta shows you how to do just that. In the meantime, dig out the director's chair and enjoy making your movies. stf

APEX MEDIA ANIMATION

As well as supporting Titan's Exposé digitiser directly, Black Scorpion's APEX Media offers some clever features for adding post-production effects to grabbed sequences.



APEX saves animation files in the popular FLC format, which can use two types of compression

- Delta Packing and Run Packing. Delta only saves the changes between one frame and the next fine for animations, but not so good for digitised video where each frame is radically different due to noise. Use Run Packing instead for slightly smaller files.



The APEX Film and Video tools offer a very smart feature which can help to reduce the size of your files on disk. The Noise Removal tool scans your animation and averages out individual noisy pixels. You may not notice an immediate difference on screen, but this helps the Run Packing compress the file more efficiently.



The second unusual filter offered by APEX Media is the Motion Blur tool. This takes a guess at what would be between any two frames and creates a kind of half-and-half version. The result is the oddly smooth blur often seen in Japanese animation. It can make jerky footage look better when you play it back.



Colour Reduction is also worth playing with. TrueColour grabs look very smart, but chomp into memory and disk space like it's going out of on. Try forcing APEX to dither and supersample everything down to 256 colours. The FLC format can use a separate 256-colour palette for each individual frame, if need be.

Bargain Software!

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Education

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The above selection is only a small example of what is available. Our printed Shareware Guide is now over 250 pages, with screen shots and descriptions for hundreds of disks of all that's best in Public Domain and Shareware for the Atari computer, including all the latest utilities and applications. So if you want the best, discover why thousands of users worldwide have for over eight years chosen Goodman's, send for our catalogue today.

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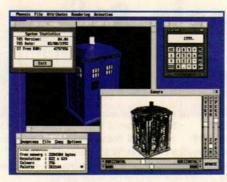
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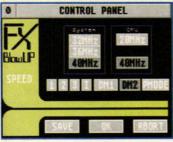
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BlowUp FX board



BlowUp FX provides you with the processing power and memory to run multiple programs in a single session.

Boost your Falcon's performance with this threein-one accelerator, memory module and screen expander.



The FX's CPX allows you to fine-tune your new configuration for maximum stability. It also facilitates dynamic switching of clock rates.

he Falcon030 is a pretty nifty machine, but even the most entrenched Atari flag-waver will admit that it perhaps isn't as nippy as we'd like it to be.

Although hardware accelerators have been available for some time, there has never been a better all-rounder than the FX board. It offers multiple chip speed-ups, a SIMM memory module and the Blowup030 screen expander, all in one neat package.

It sounds tremendous on

paper, but how good is it really? Armed only with a 4Mb Falcon, a soldering iron and a steely glint in our eyes, we decided to find out.

It's a fit up

The first thing you notice is the board's compact size. It sports just a few chips and a rack of SIMM mountings, with some clock crystals and cables dotted around the edge. However, it comes with a manual guaranteed to scare the pants off most Falcon owners. If you were hoping to just plug it into the expansion port and switch on, you're in for a shock.

The fitting instructions are lengthy, complex and rather indifferently translated from the German. It's soon obvious that only someone with a fair degree of soldering expertise should tackle the job. It isn't just a soldering job, either: you must snip resistors and cut PCB tracks to get the full benefit of the upgrade, and the entire main board has to be

extracted from the case at least once.

Even if you follow the instructions to the letter. there can be problems. When our Falcon was reassembled, we found that part of the main shielding made contact with the bare end of the ribbon cable and prevented the machine from booting up. Worse, one of the modifications was only described in a readme file on the driver disk, not in the printed manual.

Better times

If the previous section has put you off the whole idea of the FX board, don't

Although it's by

job, it's all worth

it in the end

despair. Although it's by no means an easy easy job, it is possible as long as you have the right tools and a bit

of experience (or know a man who has). And, you'll be relieved to hear, it's all worth

At its simplest, the FX board allows you to add pairs of 1 or 4Mb 30-pin SIMMs to the 4Mb already on board. If that's all you want it for, you don't need to do any soldering. The extra memory is

accessed like TT FastRAM, which most newer programs recognise straight away.

We installed four 1Mb SIMMs, and they were picked up by the Desktop with no problems. A utility called SETFLAGS enables you to amend older programs. It alters the header flags which control memory access, and works surprisingly well. For example, we amended the APEX JPG, TGA and FLC viewers to use the full 8Mb and open much bigger files. However, some programs, including Rainbow 2, don't like you mucking about with

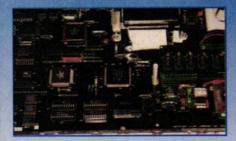
header flags and promptly crash. Also, the current version of Cubase Audio can't use the new memory to store samples. The next ver-

sion will support this feature, and you can still load the program into FX Ram.

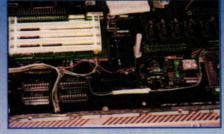
The accelerator feature is even more impressive. Normally the Falcon's CPU runs at 16MHz, and the system bus clocks in at 32MHz. We were able to crank both settings up to 40MHz, more than doubling the CPU speed and

PASS THE SOLDERING IRON

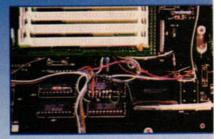
A short, sharp and shocking run-down of the BlowUp FX board installation procedure. Thanks to John Rodger of Art-Tech for his help with this nightmarish task.



First, the Falcon has to be opened up and all the top 1 metal shielding removed. It's also a good idea to remove the floppy drive and power supply if you're going for the full 'macho' installation.



2 After a good bit of resistor snipping and wire addit the FX board is eased on to the expansion slot connectors. Various umbilicals are attached, some of them to interrupted tracks on the printed circuit board.



3 You must now perform a further bit of tricky wire adding involving the small IC just below the FX board. Extra work is also required to speed up the FPU (to 40 MHz) and DSP (50 MHz) chips.



The FXCONFIG utility gives a report on existing ST RAM size and how much has been added by FX. The current version does not allow more than 14Mb to be recognised.

increasing peripheral and memory access rates.

A little bit of fiddling - and guesswork - with the CPX settings is required to make the machine stable at these rates. The parameters depend very much on which hardware revision you have.

We also installed the DSP speeder option, which increases the clock rate for this chip from 32 to a whopping 50MHz, boosting operations such as JPEG decoding. It isn't as easy to measure the effect of this upgrade, but we noticed improvements of around 20 per cent.

The BlowUp expansion provides a noticeably more stable screen than the software-only equivalent, with additional 'pixel clock' settings and a few little extras. This option performs just like the BlowUp Hard 1 kit, which has been available for some time as a separate unit, but without the bother of extra external pluggy bits. It does, however, seem more finicky about the exact X and Y settings required to avoid screen corruption and system hangs. It also requires the system board to be removed so you can make a connection on the underside.

HARD FACTS

Hard-core performance freaks will be interested in this screen grab, which shows the performance of each accelerated machine function in relation to the standard (100%) benchmark on an unenhanced Falcon. Increasing the system clock speed from 32 to 40MHz has increased ROM and RAM access considerably, as well as improving most of the Desktop video operations. Increasing the CPU and FPU clocks from 16 to 40MHz has had an even more dramatic effect on integer and floating point calculations, doubling the speed of tasks like 3D rendering and image

Not shown is the effect of enhancing the DSP from 32 to 50MHz, which we found speeds up DSP tasks such as fractal generation and JPG decoding by around 20 per cent on average. The only minus appears to be a mysterious seven per cent drop in Blitter performance, which we were unable to improve on. It's also worth noting that with a television or RGB monitor, the system clock is limited to 32MHz.

As far as problems were concerned, these were few and easily remedied. Once a stable CPX setting was found, 95 per cent of all software ran without incident. The only problem we couldn't sort out was

	GEMBench	
File Test Misc.		
Test GEM Dialog Box; VDI Text: VDI Text Effects; VDI Small Text: VDI Graphics; GEM Mindow; Integer Division; Float Math; RAM Access; ROM Access; Blitting; VDI Scroll; Justified Text; VDI Enquire; New Dialogs;	Time — Ratio — 3.130	Statistics Display: 114% CPU: 182% Rverage: 132% Reference Falcon ■ Blitter ■ FPU ● 640*480*2 ○ 640*480*256

Gembench 4.03 gives the best picture of your Falcon's new accelerated capabilities over a range of operations. Note the Integer Division entry in particular, which reflects the main 68030 CPU speed directly.

> some crackling during 50KHz sound playback. This does not affect direct-to-disk recording or sampling sounds at this rate, and can be cured by dropping the CPU speed to 16MHz, in many cases without having to quit the program. Apparently on some Falcons this can also cause Cubase Audio to crash or exhibit sound problems, but you can get round this with software and hardware fixes. In general, the FX board provides an excellent level of compatibility considering the complex installation.

So, was it all worth it? The traumatic installation, the worry, the hours of fiddling with CPX settings? The answer is a resounding yes. Your Falcon will zip through previously tedious tasks with renewed vigour.

ImageCopy 4, for example, handles larger images and remaps TrueColour images to a high-res 256 colour screen in less than half the time taken previously. APEXMedia works flawlessly, hauling in large animations and processing multiple frames at warp speed. The rendering and redraw times of Xenomorph 2 are boosted considerably, especially when

using the FPU version of the software. Calamus SL's page redraw rates become frighteningly fast, and boring jobs such as zipping large files and formatting bulky HTML pages are a pleasure to watch instead of being an excuse for a break.

Resuscitation

If you've been wondering how to breathe new life into your Falcon, the BlowUp FX board may be the answer. It's cheap, effective and very useful. However, it does involve fairly radical and irreversible alterations to your machine's circuits, and shouldn't be taken lightly. If you have little

or no experience of 'wire-add' soldering work, you'll need some help with the procedure.

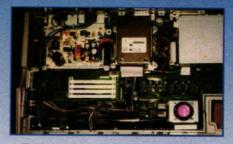
System Solutions offers a full fitting service, which adds to the cost of the board but is strongly advised. Even so, the value for money offered by the memory expander and fully featured accelerator are difficult to beat. In the take-nononsense words of the SAS. 'Who dares, wins.' stf

DUG ARMSTRONG

Product: BlowUp FX Board Price: £179 (fitting service £70) t: System Solutions Tel: 0191 6933355 Min system: Falcon



Now the BlowUp Hard 1 connection must be 4 Now the Blowup nard 1 connection, but it does established, it's a simple connection, but it does require the complete removal of the motherboard to gain access to its underside.



5 The final result, with the FX board gripping your Falcon's innards like an electronic octopus. You can now add some 30-pin 1Mb or 4Mb SIMMs to the new board and begin the testing process.

HIGHS

- Great performance
- Good compatibility
 - Excellent value for
 - money

LOWS

SII-VERDICE

- It's difficult to install
- Not compatible with all
- Falcon software
- Configuration of the driver by trial and error

An effective and affordable three-in-one upgrade that revives

vour

Falcon.

FaceValue File Windows Options Other Help Face Val FACE VALUE Manual and Reference **Ever tried using GEM resource** Application-Builder for GFA-Basic Version 1.1 files in GFA BASIC? Try this, Copyright: Columbus Soft & Vegard Hofsoy Ruthor: Vegard Hofsoy / Mediadrom AS E-Mail: vegard@interlink.no then - it makes it easier to Contents create a smart interface.

If you have ST-Guide, you can access Face Value's excellent on-line help system.

hile there's no doubt that GFA Basic is an excellent tool for novice programmers and old codeheads alike, it's a bit of a swine if you want to take full advantage of the ST's GEM environment. To use GEM fully, you must not only tangle with a resource editor, but also grapple with GFA's cryptic resource handling system. It's somewhat akin to wearing a hair shirt in July.

Face to face

Face Value helps ease the transition from developing simplistic programs using GFA's menu and window commands to producing a modern multitasking-aware application using the richness of GEM. It isn't a complete interface creation kit, though. It won't actually help you create the various GEM Resource elements: windows, drop-down

menus, dialogs and alert boxes. You'll still need a good resource editor, such as HiSoft's aging WERCS or the ST FORMAT-Gold-winning Interface (languishing in limbo since Compo's demise), as well as a basic grasp of the design of these elements.

The bridge

Face Value acts as a bridge between the RSC files and the otherwise complex procedures vou'll need to

There's no excuse

for believing that

is a black art

GEM programming

learn to coax GFA BASIC into using them. Essentially, vou create . your resource file, then pass

it through Face Value, specifying a few parameters as you go. Face Value spits out a LST file which is merged into GFA Basic and forms the skeleton of your program.

You then identify the various sections of the program - a small routine called when you click the About... entry in your new menu, for example and write code to handle the task. Face Value shields you from the jiggery-pokery you'd otherwise need just to display the simplest of GEM dialog boxes and lets

you get on with writing the real guts of your program.

When you're confident with basic GEM elements, you can work towards

producing some very cleanlooking programs, complete with extras such as pop-up menus, animated icons, custom Desktops and even menus within windows. To produce a GEM application with all these features without the help of Face Value would be a nightmare, to be honest. A quick look at most GFA-authored programs shows how simple their interfaces tend to be.

FaceValue Dialogs+ User windows Desktops Help RadioInage: Radiobutton MenuImage! Multiple line radiobutton. Any number of lines. RadioText: PopUp 1 HgnuText: Options Radio[ext: ListBoxes o Checkbox Multiple line button. This time: Checkbox CheckList Menu Underlined text... A DK b HELP 6.25Khz | Khzi Resample

The demo program shows how complex your user interfaces can be, with very little work.

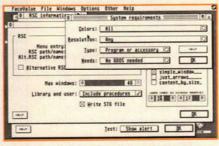
ROYAL SHAKESPEARE CO?

A Resource file - identified by the RSC extension - contains data describing all the elements of a program's GEM interface. Rather than coding these windows,

menus and dialog boxes from scratch, you use a resource editor to create them graphically, then store them in a single file which the program can decipher.

Face the future In these days of Atari-

compatible machines, such as the Hades, and new operating systems, such as MagiC, your program needs to cope with lots of possible configurations. Face Value helps produce interfaces which don't obstruct multitasking systems by catering for non-modal dialogs which don't require immediate attention, so users can still switch between applications. Normally, this is even harder than standard GEM programming in GFA, but Face Value produces code to handle these awkward tasks for you.



Once you've set a few parameters, Face Value produces ell-commented GFA code for you to work with.

Face Value isn't perfect, but it is a superb product. The lack of an RSC Editor is a pain if you're just starting with GEM programming, although shareware alternatives such as ORCS are available.

The wind changes

If you want to give your GFA Basic programs real 1990s interfaces, then Face Value is a must. There's no longer an excuse for believing that GEM programming is a black art. Go for it. stf

FRANK CHARLTON

Product: Face Value 1.1 Price: £49.95 ct: System Solutions Tel: 0181 6933355 system: All Ataris, needs 1Mb. GFA Basic and a resource editor



ERDICI

Face Value takes the pain out of including GEM work in your **GFA Basic** programs.

B

AdLib

Atari Inside CD-ROM kein Fernet | "5

We've reviewed so many CD-ROMs recently, we've seen enough software to sink the Titanic. Here's another one... glug, glug.

ermany has always been a major source of ST software, because the Germans sensibly took the Atari machines to heart at a very early stage. Rather than endorsing the games machine image we've battled against in the rest of the world, they have always viewed the ST as a serious machine, and their CDs usually reflect this.

The Very Best of Atari Inside Vol 1 is produced by the German magazine of the same name. It offers a more straightlaced selection of ST, TT and Falcon software than the usual CD compilations. There aren't any folders stuffed with PD games; the developers have concentrated on programs you'll actually want to use for more than five minutes.

East meets West

As you'd expect, the vast bulk of the software is in German. Other than specific bits of

shareware from other parts of Europe and the USA, almost all the commercial demos, shareware and document files have a distinctly Teutonic flavour. You'll need to think carefully before you buy if you aren't confident about using non-native software. The disc doesn't have a rigid structure or front-end menu program, so

you're free to dip in and out at random.

Fontasia

So, what's on this latest silver it a serious look platter? If you're of a DTP

persuasion, you might well like it a lot. It's easy to say that copying hundreds of fonts on to a CD-ROM is a cheap way to fill space, but it's also very convenient to have easy access to a big font library.

If you're using any of the variants of Calamus, you'll find no fewer than 600 fonts in the

CFN format. They can also be used with APEX Media on the Falcon. If you've taken

If you're remotely

interested in DTP

or raytracing, give

the plunge and installed a vector font handler, such as NVDI 3 or 4, this disc will set your mouth watering, because there are over 900 fonts in

> TrueType format.

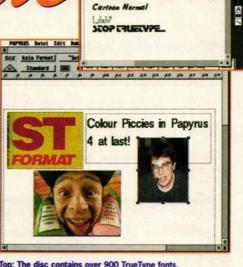
Sadly, there isn't a guide to the type styles, so you're reduced to ploughing through each

one in turn. Considering the price of commercial fonts though, having almost 1,000 at your fingertips outweighs any inconvenience.

Fans of raytraced graphics will also find plenty to play with. Along with a demo of the commercial RayStart package, you get a complete copy of Persistence of Vision 2. There's a vast collection of pre-written scene files to render, and many inspiring sample images, too.

Claire who?

The data on the CD-ROM only takes up 380Mb, a little over half of the maximum capacity. Curiously, the remainder contains standard audio music tracks - 48 minutes of tunes in a semi-ragtime style from a German outfit called Claire De Luxe. No, we've never heard of it either, and we have no idea why its music is cluttering up an Atari CD-ROM. If we want something to listen to, we'll nip down to Our Price, thanks all the same.



Top: The disc contains over 900 TrueType fonts. Bottom: One of the many things to interest DTP fans is this demo of *Papyrus* 4, complete with colour picture handling.

Atari Inside is basically another shareware compilation. You do get unusual items, such as an HTML guide to the ProTOS show - in German, natch - and over 900 pieces of GIF clip-art to use on your own Web pages. There's also a selection of programs for the Portfolio.

Atari Inside isn't fantastic. but it offers a neat selection of software. The score we've given the CD is for general users; if you're remotely interested in DTP or raytracing, add another 10% to the rating and give it a serious look. stf

FRANK CHARLTON

oduct: The Very Best of Atari Inside Vol 1 rice: £16 ct: 16/32 Systems Tel: 01634 710788 n system: All Ataris, CD-ROM drive required



The complete Persistence of Vision raytracer is on the disc - and yes, you could produce images like this with practice. Lots of practice.

HIGHS

- Great raytracing and **DTP** selections
- Wide variety

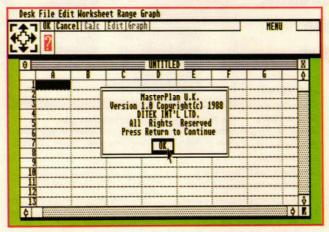
LOWS

Only 380Mb used Audio tracks on an Atari CD?

A wider selection than most PD discs. Great value for graphics and DTP fans

Masterplan

A commercial spreadsheet and chart program which runs on any ST and costs less than £15 adds up to a bargain, in our opinion.



The screen has three areas: the menu bar, the control panel and the worksheet.

asterPlan was developed by Canadian company Ditek International and is distributed here by Goodman's. It's quite old, having been written in 1988, but uses many of GEM's user-friendly conventions.

MasterPlan will run on a 512K ST, but 1Mb of RAM is recommended, and a printer is advisable for serious use. It works in ST high and medium resolutions, and isn't copy

ress any key or click left mouse button to continue.

The Help text gives a succinct explanation of all the

SPREADSHEETS

Next to word processors,

spreadsheet programs are

probably the most popular

business applications. Once set

up, they enable you to enter

financial or scientific data and

perform calculations quickly and

protected. You can also transfer it on to a hard drive.

One, two, three

Masterplan divides the screen into three sections. Immediately beneath the menu line (top section), you'll find the 'control panel'. This is where you type the values which are to be entered in the cells of your spreadsheet. It also controls data entry and editing, and displays the current mode and any actions the program is carrying out.

The third section of your screen is occupied by a GEM window showing your worksheet. The entire sheet covers a much larger area than your screen shows, so you'll need to use the scroll bars to move around.

Masterplan uses the right mouse button to

easily. This is accomplished by

linking the 'cells' which contain

the data with mathematical

formulae and displaying the

your data pictorially.

results in other cells. You can

also generate charts to display

emulate the action of the ST's [Return] key. This setup makes it easier to enter data quickly as you navigate the spreadsheet with the mouse pointer.

In the money

Setting up a worksheet is very easy and fairly intuitive, and you'll be able to get going simply by experimenting with the program. When you need it, the manual is clear and detailed, and the program also has a built-in on-line Help system. It's easy to set ranges of cells and define formulae, be they mathematical, scientific or financial.

You can print either direct to the printer or to a file on disk, making it possible to use the text and numbers within word processor documents. You can also print the whole worksheet, or just a part of it. Print commands include control over page margins, page length, headers and footers and borders.

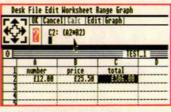
You can produce various charts, including line, bar, stacked bar, pie and scatter charts, plus the dangeroussounding 'exploded pie charts'. They can be displayed in colour or monochrome and up to six separate data ranges can be used. Multiple charts can be created and stored for each worksheet, and they can be saved as image files compatible with Degas and Publishing Partner.

Verdict

MasterPlan is a good program with many nice touches. For example, you are able to drag the columns to the desired width using the mouse pointer, as well as being able to specify this via a dialogue. However, you won't find the really modern features, such as pop-up menus or movable dialog boxes, that you get in the latest programs.

Nevertheless, Masterplan works well and contains good financial and business features not often found in ST software. The well-written manual complements the software and the price is right. stf

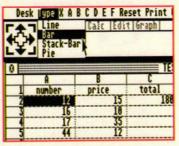
PETER CRUSH



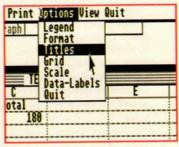
The contents of the first two cells are linked by the formula displayed in the control panel. The result appears in cell C3.



If you get stuck, click on the question mark icon to access the on-line Help files.



It's easy to select the kind of chart you want to use for your data...



and just as easy to set all MasterPlan's other chart options

ct: MasterPlan £14.95 plus postage Goodman's PDL t 01782 335650 Any ST



If you're looking for a good all-round spreadsheet, you won't go far wrong here.

NVDI PostScript module

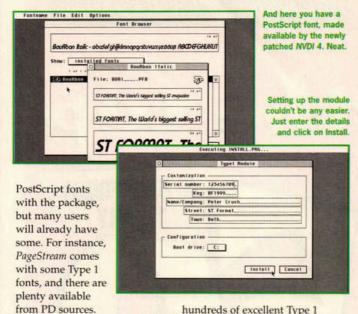
It's impossible to use PostScript fonts with NVDI 4, isn't it? Nope. not any more.

VDI enables you to use Speedo and TrueType fonts in any ST software that uses GDOS, Atari's graphical extension for driving screen and printer output. It scored 93% in issue 82.

Until recently, though, you couldn't use PostScript Type 1 fonts with NVDI. Changing all that is the recent release of an add-on module from System Solutions. It enables you to use these industry-standard typefaces freely

The PostScript module is supplied on floppy disk and you need to have NVDI 4 installed to make use of it. You can then simply run the installation program to 'patch' the module on to the main program. This gives you access to all the features NVDI normally provides for Speedo and TrueType fonts.

You don't get any



We tried some of these out, plus some from HiSoft's 500 Fonts CD-ROM (STF 84, 90%). and had no problems making use of them.

Typoflexibility

If you have NVDI 4 and are happy with your current range of fonts, you may not need or want this module. However, if you want maximum flexibility and the ability to use the

hundreds of excellent Type 1 fonts in your ST documents, this is the ideal way to do it. It works well and isn't too expensive. stf

PETER CRUSH

NVDI PostScript Module £24.95 : System Solutions Tel: 0181 6933355 : 1Mb Atari with hard drive. 2Mb recommended

STF RATING 89%

TrueType fonts

So many typefaces, so much to say. Mix and match with another 100 fonts from Systems Solutions.

e awarded 85% to System Solution's Font Package 1 last month (STF 84). A second set is now also available, also containing 100 Truetype fonts.

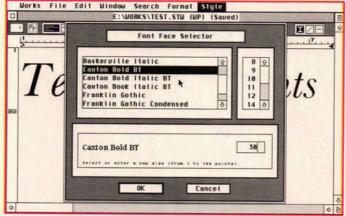


And here are some of the new fonts. AtariWorks is GDOS compatible and hence works well with NVDI

The fonts are all from Bitstream, a USA company specialising in fonts for Macs and PCs. They are in the TrueType format, so normally they would be of no use to ST users. However, if you have

NVDI 4 you can use them with any Atari program which normally outputs via GDOS. Bitstream produces high-quality typographical designs and its fonts are certainly very beautiful.

The typefaces in this five-disk set are of the highest standard. They range from showy ones such as Broadway, Stencil,



NVDI 4's Fontname utility makes it easy to preview this newly installed Caxton font.

and Informal to more restrained designs such as Original Garamond, Cheltenham and Amerigo. If you are looking for 'old-style' fonts, try Calligraphic or Caxton. More modern typefaces include Incised 901, Seagull or Humanist 521.

There is plenty of choice and most fonts are available in a range of weights and have proper italic versions. We recommend you look at Bitstream's font catalogue, available from System Solutions for £6. It has printouts of over 1,000 fonts,

including all those offered in both font packages.

These fonts are top quality and, being scalable, will look good at any size. If you are into DTP work, you should treat yourself. At a mere 40p per font the cost is very reasonable. stf

PETER CRUSH

t NVDI Font Package 2 ce: £39.95 System Solutions t 0181 6933355 1Mb Atari with hard drive, 2Mb recommended STF RATING 85% Adventures in Science Fiction

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Game on

It's going to be a fun-packed year for Atari games fanatics. Nial Grimes grabs his joystick and prepares for an exciting ride.



Highly Side brings power-ups and swish presentation to the Tron concept. A demo version is available now.



The Running demonstrates just what the Falcon is capable of in the 3D department

ost of today's games descend from a few hallowed concepts established by the arcade hits of the early 1980s. Defender, Tron and even ye olde pinball table can be found alive and kicking in the modern arena. It's no surprise, then, that the ST and Falcon release schedules for the next six months include several titles which siphon the best from the classics.

Radical Race borrows much of its atmosphere from the Atari head view of the track may seem a little antiquated for a Falcon game, but the plethora of upgrades keeps your attention firmly focused on the gameplay. Highly Side attempts to do similar things for the Tron genre by retaining the same basic style of play, but squeezes in a 'shop' packed full of power-ups between each bout. The presentation serves as a constant reminder that you are in the 1990s.

Even Alien Thing - The the likes of Robotron. Both

trigger-happy shoot-'em-ups with the emphasis firmly on gameplay.

Although

cially similar to its predecessor, The Director's Cut has been

> injected with a good dose. of class. For a start, you now play the game from a slightly offset, 3D perspective, and the asteroid setting provides more room for graphical variation. The gameplay has been two-player mode and over 25 levels are planned.

The arcade tributes are rounded off by Obsession ute to Defender; and Mole



Mayliem, a revamp of the alltoo-rarely cloned Bomb Jack.

The birdy song

Meanwhile, the Falcon is finally beginning to break free

from the restraints of ST compatibility and prove its mettle as a games machine. Obviously inspired by Rayman, Willie's

Adventures is one of the most visually appealing games on any platform. Silky smooth scrolling, dozens of colours and eight-channel sound put this platformer on a par with

The Running is similarly impressive from a technical standpoint. A fully 3D shootfull of hideous monsters, it also has fully lit outdoor on a standard Falcon. Most onlookers will wonder where you've hidden the PC

available from Internet sites. Doom, but no doubt this will change before the release version arrives. Level design is really the key to this type of game, so it remains to be seen whether The Running will become a true classic or a digital version of the Hampton Court maze. Given the level of the technical aspects, early indications are good, however.

Extras

The titles we've mentioned form a relatively small part of the schedule, and there are lots more just over the horizon. The Power And The Gory (reviewed on page 28) is due for a Falcon update and a new game from the authors of Isle of Glass (STF 80, 92%) should see the light of day at the Atari shows later in the year. You can be sure that ST FORMAT will bring you news and reviews of all of these games as they arrive. stf

the very best console offerings.

Willie's Adventures

is one of the most

appealing games

on any platform

'em-up set in moody corridors sequences which run smoothly

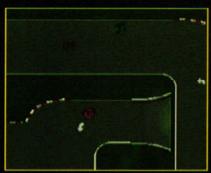
A fully playable preview is Many of the mutants appear to have been, er, 'borrowed' from attention that has been paid to

Spice CyberSTrider (dbhabuta@cix.compulink.co.uk) Shareware version available soon.

Radical Race T +331 48049975 lhubert@nest.demon.co.uk Preview version available now.

Highly Side Yann Trevin, 159 rue de l'Impératrice, 62600 BERCK, France Demo version available now.

- Alien Thing The Director's Cut ballra@falmouth.ac.uk
- Mole Mayhem Croft Soft = 01454 313352
- Obsession Falcon Merlin = 01452 770133
- Willie's Adventures Daniel Hedberg Preview version available now (send HD disk and International Reply Coupon to: Daniel Hedberg, Halvergatan 9a, 641 51 KATRINEHOLM, Sweden).



Radical Race inherits much of its gameplay from the classic Atari driving game Super Sprint.



Alien Thing - The Director's Cut offers Improved graphics and two-player gaming

The Powers and The

Tanks, bombers and rocket trucks trundle across the screen as war breaks out on your ST. Pass the Risk campaign diary!

ournalists shouldn't have to cope with this sort of pressure. While we are perfectly happy to squash legions of cute little creatures in the name of incisive reviews, the thought of wrestling with the future of peace, democracy and a new series of Baywatch is frightening. Even more terrifying is the prospect of learning and mastering a war game that takes itself as seriously as The Power And The Gory.

Risk holds nothing on the obvious depth of this hard and dry war game. The overall aim is to obliterate the enemy, usually best accomplished by beating a path directly to the capital city. In time-honoured tradition, this gargantuan battle is fought, tiles in hand,



Awooga, awooga... incoming air raid! Are you going to scramble fighters or take a risk?



The large battlefield can be squeezed on to a single screen with the help of the 'strategy' view.

over a somewhat unconvincing grassy battlefield.

Once you have carefully placed your cities, airports, rocket trucks, tanks, infantry, toilet facilities and burger bars, the battle begins. Each player takes turns to attack and the whole game is very much about strategy. You could, for instance attack your opponent's industry, reducing his

capacity to produce weapons, to make your next offensive more successful. On the other hand, a Braveheartstyle charge

against ridiculous odds may be more your style.

Whatever option you choose, you can expect the battle to last some time, although some comfort can be drawn from the fact that the rules are taken care of by the STflattening the whole of Russia with a single plane may have worked in Goldeneye, but you'll need to work harder to achieve similar success here.

A casual glance around the page should be enough to tell

you that Power and Gory is not basing its hopes for success purely on graphical excellence you have to look hard to find even basic animation among the primitive icons and bland landscapes. Much the same can be said of the sound effects, which are more reminiscent of a bee in a bottle than a

world war. Thankfully, a lot more effort has gone into the design of the game itself.

This gargantuan

battle is fought,

tiles in hand, over

a grassy battlefield

The battle takes place across a large multi-screen field and tile operations are straightforward. The range is thoughtfully indicated on screen, and you can

safely put the exhaustive manual aside, because a wellplaced mouse click here and there will usually get you where you want

to go. Despite its seeming complexity, Power and Gory is quite straightforward to play. This is perhaps its greatest advantage over traditional, board-based games.

Kill your speed However, the capable interface is powerless to reduce the sheer amount of time needed to complete a game. The setup phase alone takes at least five minutes - more if you are going to give some thought to where each piece is placed and the computer often seems to make more of a meal of decision-making than a human opponent. Small consolation can be found in the 'save game' facility, which at least enables you to attempt the odd foolhardy attack without the risk of losing several hours' work.

The Power And The Gory oozes depth out of every pore



L.

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animation or sound effects. Time is money

Die-hard war gamers may appreciate the purist approach, but the vast majority of ST gamers will prefer something that exploits more of STOS's potential and takes less time to set up and play. stf

and the statistics screen alone

for many a month. However,

basically a board game, with

the digital age in terms of

very few concessions made to

no amount of depth can change the fact that this is

would keep Peter Snow happy

NIAL GRIMES

The Power And The Gory £24.95 Merlin 01452 770133 1Mb. colour monitor

HIGHS

Full-blown strategical warfare

STF VERDICT LOWS

•

Long-winded
Rather dull

n snort...

A purist's war-game with little to recommend it to the average ST games player.

Road Rio 4WD

Do you wanna play dirty? Grab yourself a joypad and get ready for Road Riot 4WD, then. Pass the rocket launcher, aim, fire!

ave you considered how laughable it is that dozens of motorway drivers leave their Cavaliers and Escorts in service station car parks, only to dive straight into the arms of Sega Rally, Daytona USA or Ridge Racer? Exactly what this says about the British saloon car is a mystery, but if nothing else, it certainly illustrates how popular racing games are. Charging around impossibly tight tracks to the sound of a raucous bassline and crunching metal is as close to gaming nirvana as many can get, and yet Falcon owners have been denied this pleasure - until now.

Road Riot 4WD is a Falconspecific, arcade-style racing game packed with powerful machinery and splattering mud, with one or two missiles thrown in for good measure. In fact, cast your mind back through the mists of time and you might remember playing 4WD in the arcades. Released in 1991, it was typical of Atari's penchant for exploring new vehicles and adding weapons and unpredictable tracks to its racing games.

As far as looks and concept are concerned, Falcon 4WD is an exact clone of its arcade parent. The aim is to race around a series of tracks, ultimately emerging as the winner of the championship. Only first position will do in any race, although there are three credits to bail you out of tight situations.

Having chosen your course from the selection of 11. you are introduced to the host (carica-

tures ahoy!) and the race begins. It's at this point that you start to have doubts about leaving the smooth tracks of classics such as Super Sprint.

Bump, skid

Road Riot's undulating tracks send your buggy skyward at the merest suggestion of a hill and call for a completely new approach to steering: make sure those wheels are pointing in the right direction when you hit the ground. The constant skidding can also present a problem for the first few

The tracks send your buggy skyward at the merest suggestion of a hill

> Even with artillery aplenty and liberal amounts of mud, there's always a danger that games. Road Riot's answer is to your location. In the Swiss Alps you'll find yourself sur-

rounded by mountains. whereas country roads are The medley of bouncy tunes also helps you plough



games, although it quickly comes under control as you get a feel for each course.

Slightly more worrying is the fact that it's practically impossible to avoid larger obstacles on the narrow tracks, especially when they appear in mid-flight. A glancing blow to a tree or rock results in a complete smash and, despite your speedy resurrection, the opposition usually seizes the

> opportunity to charge past. It's just as well that your buggy packs a rocket launcher to hinder their progress. You can take

unlimited ammunition for granted, too.

monotony will sneak into race scenery that changes according through to the end.

Road Riot possesses some



Ah, the obligatory after-the-win snogging sequence, complete with nauseating sound effects.

of the ingredients of a great racing game - it's fast and the soundtrack, if not the effects, reinforces the quality of the overall presentation. There are times when you feel you've almost mastered the controls. but that moment usually arrives two seconds before another major tree tangle.

Falter, crash

Given some of the race games that have appeared on the ST, we feel the Falcon can do better than this. However, in the absence of an Overlander or Riot 4WD fills a gap. stf

NIAL GRIMES

Road Riot 4WD 16/32 Systems 01634 710788 system: 4Mb Falcon, Jaguar PowerPad, hard disk.

Impressive presentation One or two neat tunes

LOWS

Frustrating at times

Looks nice, sounds sweet. and is playable, but it's ultimately a bit of a let-down.



p, crash, bang, SMASH! Tangles with tre buggy quickly reappears on the track.



The scenery depends the location of the race. Here, we race against Helga Grossebergen in the Swiss Alps (Er, quite – Nick)

Fight for Life

Bite down on your mouth guard and take a look at the most eagerly awaited Jag title yet, Fight For Life.

very console must have its beat-'em-up, and after some decidedly lacklustre titles, the Jaguar bounces back with a real winner.

Fight For Life has been a long while coming. More than any other Jaguar game, it has been back to the drawing board many times as other software houses have upped the ante. It looks as if the wait has been worth it, though.

From the moment you plug the game in, you know it's something special. The intro screen is like a mini pop video - the music and fighting are synchronised, and the camera zooms and cuts from one view to another. Once you've chosen training, twoplayer or tournament mode, the battling begins.

Plot? What plot?

The plot is largely irrelevant.

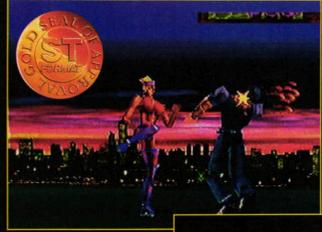
You can play against the computer or a human opponent. The computer plays a pretty mean game and is great to practice against, but you

can't beat (sic) playing against a friend to really get the competitive juices going.

The eight opponents all have their own special moves, and every time you beat one, you get to add two of their moves to your repertoire. This means your range of kicks and punches increases as you progress. However, there are so many moves that most people will probably settle on a few favourites

There are also some combomoves. They are extremely hard to get right, but well worth it in terms of hit points and spectacular on-screen action. How about a face-slap combo? Try to remember right up B left up B right up B. With button combinations like that though, a few more hit points wouldn't have gone amiss

There's also an invisible force field which surrounds the playing area. If you can push your opponents into it,



you get to see them electrocuted by long blue sparks. It's good fun, although the jerking bodies and sound effects are not for the squeamish.

The computer-controlled opponents have definite personalities. What works against one may not work against the next, so you're on a constant learning curve.

To beat an opponent, you need to win two out of three matches. The early ones are

soon mastered, but later opponents do take a bit more work. If you are successful, you get a password so you can keep your new skills.

The speed and detail of the graphics should be a revelation to many of the Jaguar's detractors. Each fighter is fully texture mapped and the various moves are well animated. The little 'dances that the winners perform at the end of each match are a particularly nice touch.

Point of view

The camera angle can be fixed or rolling. In the latter mode it pans wildly around the arena, following the players. Sometimes close up, it can then fall away to a long shot. Very occasionally this makes it difficult to judge your position, but it's rarely a

consists of the usual techno tunes - Tempest 2000 has a lot to answer for. The sound effects are sparse but well chosen, with kicks producing gentle whooshing noises and characters grunting and squealing when hit hard. An



The fighters all have their own str CJ's trademark is powerful punch

awesomely deep voice introduces each new match.

Comparisons to Tekken and Virtua Fighter are inevitable. I'd be lying if I said it came into their league. However, given that they come on CDs with hundreds of megabytes of sounds and graphics, whereas Fight For Life is all packed into a 4Mb cartridge, the latter is an astounding achievement. It may be missing some of the polish of Tekken, but it matches both for playability. The only real caveat is that you need a human opponent for long-term value for money. stf

IAIN LASKEY

Fight For Life £59.99 JTS Atari 01753 533344

problem for long.

The music is good and

HIGHS

- Superb playability
- Texture-mapped players
- Sound effects

- Price
- Some moves are tricky
 - No very powerful moves

In short...

Superbly playable beat-'emup with great graphics and sound.

the wait.



ou can choose your fighter, but the Jaguar sorts out the













Primal Rage Cl

Streetfighter 2 meets Jurassic Park in the second Jaguar fighting game of the month. So much for our vows of pacifism, then.

f you have a games console of any description, it's hard to avoid the angry mob of oneon-one fighting games which has flooded the market in the last few years. The Jaguar is no exception, boasting the aged Kasumi Ninja, Ultra Vortek and Atari's latest PlayStationwannabe, Fight For Life.

Mother Urth

Not content with three titles, Atari has also released a CD-ROM conversion of the coin-op fighter Primal Rage. It replaces the usual collection of martial arts experts and genetic weirdos with a new element giant prehistoric beasts.

Civilisation has been destroyed by a global catastrophe and the old gods have return to Earth in the form of vast dinosaurs and mutated apes. Humanity worships these gigantic predators as they begin the battle for supremacy on the New Urth.

Primal Rage offers two single-player modes, plus three for when your mates are handy. Arcade is the simplest: you work your way up the ranks by defeating all the

opposition. The solo training mode lets you choose an opponent, enabling you to practice controlling your fighter and perfect your moves

Like every fighting game, Primal Rage benefits enormously from a human adversary You'll need an extra joypad, but the game improves greatly as you play the standard, tug of war and endurance twoplayer modes. In the last, your four players take it in turns to fight against a friend's team.

Chop-socky!

Beat-'em-ups tend to have cryptic control systems which strain your mitts, and Rage is no exception. The three main buttons produce a range of standard punches, kicks and bites, which can be expanded using the Up and Down controls. Each character has an array of special moves, ranging from spitting fire to cranium-crushing charges and drops. They aren't especially easy to execute, but each character's moves use a similar system. Once you're used to them, games will fly. There are also some moves which aren't described in the manual. You'll discover them as you play...

If you've been indifferent about digital slug-fest games so far, give this a try. Primal Rage manages to introduce something sorely lacking in

previous efforts - a large helping of fun. The difficulty levels make it easier to get into than most fighting games, although you'll need to play at 10 or above to finish the game. Anything below that doesn't let you play the final battle.

Those of you with small hands may find the controls difficult - my hands are huge, and it still took a while to get used to them. Some people will also find the excessive gore off-putting. These criticisms aside, Primal Rage offers fast and very enjoyable sessions of prehistoric pugilism. stf

FRANK CHARLTON



Finish an opponent without being hit and you'll be rewarded with Total Domination points.

Primal Rage CD 16/32 Systems 01634 710788 Jaguar with Jaguar CD

GORE BLIMEY

Diablo's special moves include this fearsome fiery toe toaster. Coo, pass the marshmallows

Primal Rage is a very visceral game and there's a lot of flying blood whenever you score a damaging hit. Most moves result in a few unsavoury splashes, but some of the more spectacular hits can flood the screen with a crimson tide of generous proportions.

If this kind of thing doesn't appeal, you can switch off the gore at the options screen, but there isn't a 'lock out' or parental control feature, so be careful if you don't want your kids to see enormous washes of the stuff. Still, you knew a fighting game would be violent, didn't you?



Primal Rage contains more gore than most blood banks.

HIGHS

- Easy to get into
- Bone-crunching sound
- and graphics
- Great fun

LOWS

- Awkward controls for smaller hands
- Too gory for some

n snort...

A Jaguar game which offers something missing from many

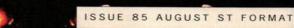
others















Shape Up

All STs (TOS 2.06 and Falcon require a STOS fix utility)

Shape Up is a puzzle game. It requires you to cover a target grid with shapes which exactly match the shape and colour of the target. You can use a combination of the pieces on offer, and once a piece is selected, you can flip it around to get it into the right position.

Shape Up has the potential to be a good, entertaining piece of software, but the timer is a problem. No doubt the author immediately became an expert at the game and was anxious not to make it too easy. The

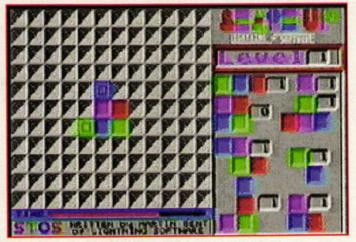
over-zealous timer makes it nearly impossible for a new player to get into the game.

It doesn't even have a couple of easy stages to get you started. This means you have to rehearse each level with multiple failures until you learn how to get it right first time. The timer should be switchable, or offer several different difficulty levels.

Sadly, this flaw ruins a potentially excellent game. With a more flexible approach, Shape Up would score at least 20 per cent more.

STF RATING: 59%

January 1150



Shape Up is a promising puzzle game spoilt by over-zealous timer. Boo!

namite Soft

You have to lay siege to your opponent's castles and breach their defences In this smooth strategy game. Remember, in the end, there can only be one.

> When a knight won his spurs in the stories of old, he was gallant and brave and had a huge army, tooled up to the teeth.

Lords of Chivalry

Goodman's, disk GD2732. All Ataris (Falcon and TOS 2.06 with a STOS fix utility)

Tis the year 1150, and war hath broken out in the kingdom. Three other lords do wage war against thee and thy castle. Thy task, shouldst thou choose to accept it, is to lay siege to the castles of thine enemies and destroy them utterly. This

> message self destructeth in five seconds.

Yep, it's Mission: Impossible, 12th Century style, in this cleverly constructed STOS strategy game. Four players, either human or computer, wage war until there is only one left.

There isn't any live action

in the game, but you must busy yourself building up your castle's defences and gaining troops. You can buy spies to bring back reports from the other castles or sabotage their preparations.

When you feel you are sufficiently armed and well defended, it's time to go to war. Strategy is crucial, because if you spread your army too thinly you'll soon be defeated. The idea is to make modest gains and then reinforce them. The graphical interface works well, enabling you to keep track of your progress and that of your enemies. The presentation draws you into the action and you'll soon start to care who wins and loses.

With so many weak and badly presented PD strategy games around, Lords of Chivalry is a breath of fresh air. If you decide to strap on your spurs and have a go, you won't regret it.

STF RATING: 79%

Aerius

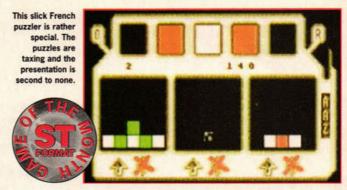
LAPD All STs

This French puzzler is beautifully written and graphically very attractive. All the text is in French, so working out what to do is also something of a game.

You are required to take a series of coloured blocks and unite two or more like colours to get rid of them. When all the blocks are gone, you move on to the next level. You

manipulate the blocks by rotating them and moving them between the three work areas on the screen. Confused? You won't be after five minutes - it's easier to play this game than it is to describe it.

The sound chip music is among the best around, and even manages to sound classy in places. The game is compelling, if frustrating at times, and you will soon get hooked. Each level presents new challenges, and you can restart the current level at any time if you get stuck.



Overall the game feels solid and professional, much more like a commercial game. Puzzle-solvers of the ST world,

reach for your phones and get hold of Aerius, it's a must-have.

STF RATING: 89%

Internet Access Pack 1.31



AntMail provides a complete POP3 mailing solution within the Internet Access Pack.

LAPD or HENSA ftp archive All Ataris (CAB requires 1Mb)

This latest release of the Internet Access Pack includes far more than the old STiK and CAB setup. It's coming pretty close to being a full Internet connectivity solution, and plans are afoot to revamp the whole kit quite soon.

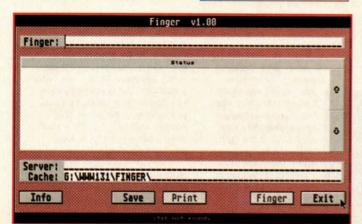
The new pack not only has the stuff you'd expect - STiK and a new version of CAB but also includes some smart extras. CAB itself has new

HTML routines enabling it to suport some more advanced Netscape features, such as client-side image mapping. It also has support for JPGs and forms. Swampdog's GEMmed installation and setup program is included, making it a doddle to install STiK for the first time.

You also get AntMail, the POP3 e-mailer, and clients for Finger and Telnet connections. The old IRC program is replaced with Lonny Pursell's new GFA Basic client, which supports colour and other new tricks.

This is likely to be the last release of the Access Pack in its current form. It's due for a complete overhaul, and the next version should be a much better integrated system. In the meantime, though, this release provides for most of your Web access needs, and does so very well. Frank Charlton

STF RATING: 76%



The Finger client enables Demon users to check how much mail you have waiting - even if you can't use the Web Access Pack to download your messages yet.

MIDI AND MUSIC



STEFFI is a delightful program, but it's only of use if you own a Yamaha FX900 guitar effects processor.



There's nothing complex about this neat patch librarian - just click and drag the patches to your desired destination.

Goodman's, disk GD2795 All STs, high res only

This program is only going to be of interest if you own a Yamaha FX900 guitar effects unit. The unit fully supports MIDI, both in and out, so you can use ST-Effi to build patch lists and save them to disk.

Like one or two other programs, it's a Yamaha official release which is now available in the public domain. The unit itself is now discontinued, but if you have one, this patch sorting software is invaluable.

The user interface is blissfully easy to operate - simply click on a patch and copy it to the destination of your choice. There are no cryptic editing screens to do battle with, so you can concentrate on what you want to achieve. When you have assembled your ideal bank of effects, you can upload it to your FX900 with a single click.

STF RATING: 79%

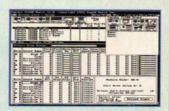
Goodman's, disk GD2785 All STs, high res only

Again, this program is neither use nor ornament unless you have the relevant piece of MIDI gear. In this case it's the Yamaha TG300, and the program is a real cracker. It not only provides extensive facilities for setting your patches on the instrument, but is also a complete patch editor, enabling you to change waveforms, cut-off frequencies and a host of other sound parameters.

The nice thing about all ST patch editors is that you can copy your original patch settings to disk first using a MIDI dump from your instrument. This leaves you free to play with the settings, safe in the knowledge that you can restore the originals if you wreck the patches in the editor.

Because this is a full patch editor and librarian package, there are a lot more screens to tangle with than in ST-Effi, but everything is clearly labelled and the program is very stable. You won't want to be without this if you own a TG300, it's pure class.

STF RATING: 89%



TG300 Quest enables you to set up each sound precisely, right down to the reverb and chorus level.



The real power of TG300 Quest is its ability to edit the patches and change the entire nature of a sound.

ST Highway 1

Jake Nichols = 0181 3670147 All STs

First issues of diskzines are rarely excellent, and this one, unfortunately, is no exception. The intro screen, shown in our grab, is hardly enticing, and it doesn't cover any recent software. Instead, it seems to contain the musings of Jake Nichols on the software he already has, and features about ancient programs, such as Noisetracker.

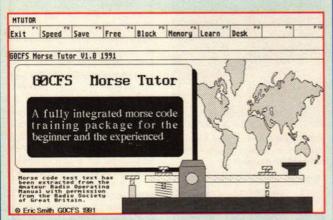
The humour comes courtesy of an old joke book and there is nothing on the disk to grab your attention. No doubt a lot of work went into producing the mag, but it doesn't get a cigar.

STF RATING: 28%



isn't easy to produce a good disk zine. ST Highway provides the proof.

Morse Tutor



Morse Tutor is a simple, but well-thought-out, aid to learning Morse Code. With practice, you'll soon be bleeping away with the best of them.

Goodman's, disk GD2747

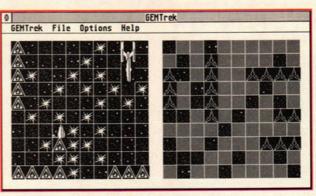
This Morse tutor has been around since 1991, but it's just as useful as ever today. Those learning the ancient and secret art of dots and dashes will find it an excellent aid in your quest for trans-global communication. There are 50 sets of text and numbers for you to interpret, as well as user-configurable tests.

The speed of keying is adaptable to suit all abilities, although the tone is a harsh sound-chip bleep.

The tutor only covers Morse Code receiving, but it does it very well and will prove indispensable if you're seeking to pass the Radio Amateurs Morse test and gain your full Radio Ham licence.

STF RATING: 76%

GemTrek



Make time for a quick game of battleships, GemTrek-style.

Goodman's, disk GD2793 All ST's, high res only

GemTrek is a neat version of the old Battleships game, using Star Trek space ships. It only runs in ST high resolution, but the Sebra high-res emulator is supplied on disk.

The rules are simple: just place your ships on the grid, by dragging them from their 'docks', then click on squares in turn with the computer. Whoever reveals all their opponent's ships first wins.

The game is enhanced by authentic Star Trek sound effects and the nice sense of humour expressed in the 'registration' procedure: you have to answer three questions correctly and state your favourite colour. The disk also includes a shareware registration form from InterActive, but you can ignore it. GemTrek is freeware.

GemTrek is a great game for passing a few idle moments between more serious tasks.

STF RATING: 80%

Ascot is a sort of platformer cum Pacman game, making an interesting combination of the two disciplines. Well worth a bash.

SEGRE : BORGOD LIVES: 03 PLAYER I TIME: 0Y95 Seintlie de

CONTRACTOR OF THE PARTY OF THE

Be careful not to fall off any of the platforms, because this guarantees your early demise. Your three lives have to last a full 100 levels.

scot

All STs

Nope, it's not a horse racing game, so relax - you won't need your smart suit, posh frock or silly hat. Ascot is actually a simple platform game, very much in the style of the old Speccy game Manic Miner, but with elements of Pacman thrown in for good

> There are no doc files, but it's fairly simple to grasp. In order to

progress to the next level you must eat all the goodies, kill all the baddies and cover every inch of the platforms. As you walk over a platform it turns yellow so you can monitor your progress. When you eat one of the prizes, the baddies change colour for a short while, enabling you to land on them and kill them.

The jumping routine is a little touchy, and if you have the misfortune to fall down a level, you will always die. Lots of care is needed to actually progress through the levels. A full 100 are provided, so this game will take

Auspack

AUSPACK Version 1.16 from 83.84.1995 8 1992-95 by Fred Wicklisch extracts all archives from H:\BEXTRACT*.* Number of files found: 4 Delete archives Extract to folder uppress TOS-output (quiet) Harnings on errors LOG-File: AUSPACK_.LOG Save configuration Cancel Setup DK

Your all-in-one archive extracting solution, Auspack.

All Ataris

Every so often, along comes a utility so mind-blowingly useful and obvious that it's hard to believe it hasn't been done before. Auspack is such a program.

When you've spent an hour or so downloading files from bulletin boards or the Internet, you end up with a folder full of archives. It's a real chore dearchiving them all and placing the files in folders ready for use. This is where Auspack steps in, offering to automate the whole process.

Use the setup button on the front panel to enter the paths to your archiving packages (STZIP, LZH Shell, ARC and so on). Once this has been done, all you have to do is click on the folder box at the top of the panel to select your downloads folder, and then click OK. As if by magic, all

some time to complete.

The big drawback with Ascot is that you only need to make the slightest mistake and you're done for - down at the first bend, so to speak. A little more tolerance would be welcome, because the game is not particularly easy and you only have three lives. The levels get a little repetitive, but there's plenty to keep you occupied on a wet Wednesday afternoon. Should you complete all 100 levels, there's even a level creator included with the program.

STF RATING: 75%

UPDATES

LAPD, Wonder Disk 85 All Atari

iPRN 2.01 is probably the best Atari printer accelerator so far. It can increase the speed at which your Atari sends data to the printer by up to 40 per cent, and this new version fully supports all TOS machines, including the Falcon and TT.

Other new features include the interception of GEMDOS printer routines as well as BIOS routines. This is a major step forward, because it means that the vast majority of programs can take advantage of the dramatic speed increase.

This version is shareware and limited to one enhanced printout per session, but it should be enough for you to realise how much difference iPRN 2 will make. Registration is handled in the UK and costs just £13.

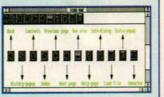
iPRN 0.46 appeared on Cover Disk 83.

STF RATING: 78%

ST-Guide 1.4e LAPD

ST-Guide just keeps getting better and better, and it's now the help file system of choice on the Atari platform.

The program has taken that important step from an interesting little utility to an essential one. With more and more programs supplying help



The ST-Guide Accessory help system is now better than ever. Its neat icon bar makes it easier to navigate through your help files.

files in HYP format, you really can't afford to be without it.

The latest version is fully compatible with just about all the Atari systems, so ST-, Falcon-, TT-, MagiC- and TOS-compatible computers will all run the Accessory. Remember to copy all your HYP files to the correct directory on drive C, or ST-Guide will not find them. As long as you do this, the program is transparently easy to use.

The current version offers many technical bug fixes relating to pop-up dialogues and text display. All you really need to know, though, is that it is much more reliable and bug free than previous releases. The other thing you'll notice is the new icon bar at the top of the help screen. This makes it easier to navigate through big help files without using the drop-down menus.

ST-Guide 1.3 received 95% in issue 73.

STF RATING: 95%

RATING

96%

94% 93% 92% 90% 90%

89%

89%

89%

89%

88%

88%

88%

86%

84%

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82%

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80% 80%

Archive-extractor: D:\RATSOFT\STZIP.TTP Archive-type: ZIP ☐ Hever extract to folder Parameter Hormal: -xr \$n *.* Ouiet: -xr \$n *.* >\$t Delete Previous Kext

the files are

extracted into

folders and, if

you wish, the original

archives are deleted. In

future, all you have to do

is launch the program and

click OK after each down-

load session to extract all

Because of the disk

archives and extracted

files, it is unlikely that

unless you have a hard

archives in different formats,

Ausback is the utility you've

AUSPACK installation

been waiting for - and our PD Application of the Month.

Auspack will be much use

drive attached to your ST.

If you are so equipped and

often have to extract lots of

STF RATING: 89%

OK Cancel

space required for multiple

your new archives

Auspack works with up to 20 archiving packages. It's very easy to configure and will save you lots of time.

If a piece of PD software scores 80% or above, it enters our PD hall of fame for four months. If you want to know more about one of these programs, turn to page 50 and order the relevant back issue.

TITLE	PD LIBRARY	TYPE	ISSUE
Let's Spell 1st500 Words Intro	Goodman's	Utility	82
EKO System Demo	Falcon Owner's Group	Falcon demo	81
AtariPhile 1	Falcon FacTT File	Diskzine	83
Isle of Glass	Goodman's	Game	80
Psycho Series	Goodman's	Graphics utility	84
Two-in-One 1.51e	Wonder Disk 81	Archiver shell	81
Michigan Mike	LAPD	Game	82
ToDo 1.01	Hensa	Organiser utility	82
Nishiram	LAPD	Game	81
Songz 1.90	HENSA	Music database	81
AstroGuide 4	Goodman's	Astronomy utility	81
Nova 10	Nova	Diskzine	84
Pac Attack	LAPD	Game	84
STOS Adventure Creator	Goodman's	Games utility	84
Mobsters City	Goodman's	Game	83
JML Snapshot	LAPD	Utility	84
Rollercoaster Experience	Goodman's	Game demo	81
UDO 4	Cover Disk 82	Utility	83
Look and See	Hensa	Graphics utility	82
List Font 2.1	FaST Club	Font utility	81
Shrinking Wall Solitaire	LAPD	Game	83
Annex	LAPD	Game	81

CD-ROM setup – die ultimate guide

Anyone can set up a CD-ROM drive

– all you need is the know-how. Andy Curtis
unlocks the secrets in our step-by-step guide.

There's a wealth of useful pictures, MOD files and samples available on PC-style CD-ROMs

e keep telling you it's a simple job, but you keep writing in and telling us it isn't, so here's our definitive guide to setting up a CD-ROM drive.

CD-ROM has come a long way since the very first Atari releases, and there's also a wealth of useful pictures, MOD files and samples available on PC-style CD-ROMs. Now's the time to access all that lovely data, but where do you start? If you want to sidestep any possibility of hassle, the safe bet is to buy an IDE CD-ROM kit (£249.95) from System Solutions (**\pi\$0181 6933355). This model scored 95% in issue 83.

It has a six-speed mechanism, offering excellent data transfer rates, and it simply plugs into the cartridge port of your ST. Apart from one German dialogue box (just click on OK), the software is a breeze to set up, and you'll be using your drive within

minutes of opening the box. If you can spare your cartridge port for this system, it is definitely the easiest option.



Many people prefer the speed and compatibility of a SCSI CD-ROM drive, even though it means integrating the new unit into your system. It is, in theory, possible to run a CD-ROM drive without first having a hard drive, but in practice it isn't advisable. Using a CD-ROM drive with a floppy-only system will not make you happy for long.

The reason for this is that many Atari CD-ROM disks contain large archived files which will need to be copied on to a hard drive before you can unpack them. It is better to think of the CD-ROM as an enhancement to your hard drive system, rather than as a standalone option. Even if the files aren't compressed, only a few programs will run directly from a readonly CD-ROM. Most need to be copied to a read/write drive, so that they can save their configuration files. This is very frustrating if the programs are bigger than your 720K floppy disks. In short, if you don't have a hard drive, make getting one your top priority, then start saving for a CD-ROM drive.

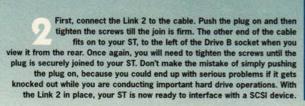


The six-speed IDE drive from System Solutions is a very safe bet for an almost fool-proof CD-ROM installation. See issue 83 for more information.

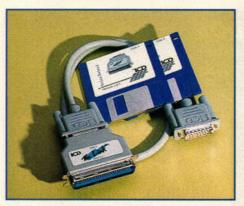
HOW TO CONNECT YOUR CD-ROM DRIVE



Here's what you need to add a CD-ROM drive to your system. The NEC CD-ROM drive (top left) is one of the many compatible SCSI drives. The Link 2 (centre) comes with its own software, but this is only intended for use with your hard drive. The CD-ROM drive will be controlled entirely by ExtenDOS. SCSI cables are often quite short, so you will need to give some thought to the placement of your CD-ROM drive. Ideally it should be placed alongside or behind your ST – and not just above the power supply, as shown here.







The Link 2 is the best SCSI interface as far as compatibility with CD-ROM drives goes.

Hardware

When you do get a hard drive, you can pave the way for the easy addition of a CD-ROM drive by getting a modern one with dual 50-way centronics connectors. These hard drives need an external SCSI interface, such as the Link 2 from ICD. The beauty of this system is that it makes it very simple to chain on extra SCSI devices with a 50-way to 50-way SCSI cable.

If you have an old-style external drive, such as a Protar, Atari Megafile or Gasteiner Mega drive, it is a great deal more difficult to add a CD-ROM drive. These hard drives use a variety of different SCSI interfaces and generally don't have a 50-way SCSI Out port on their back panel.

These hard drives do, however, usually have a DMA Out port, and it is quite feasible to plug a second SCSI adaptor into this port to connect your CD-ROM drive. Alternatively, it may be time to sell your hard drive to someone with more modest needs and invest in a modern one with industry-standard SCSI ports on the rear.

Software

If you own a hard drive, you'll be familiar with the SCSI driver software which comes with it. You could be forgiven for thinking that it should also control a SCSI CD-ROM drive - but it doesn't.

CD-ROM drives use special SCSI commands for CD-ROM disc access. They are quite different from the commands needed for standard SCSI hard drive access. We recommend that you use a program called ExtenDOS (£39.95) to install drivers which support these commands, and to add the CD-ROM drive to your Desktop.

ExtenDOS is compatible with a very wide range of SCSI CD-ROM drives. Whichever SCSI drive you buy, there is an excellent chance that it will be supported by this program. If you are unsure, it may

Whichever SCSI drive you buy, there is an excellent chance that it will be supported by ExtenDOS

be worth a call to System Solutions (# 0181 6933355) to check that your proposed drive is on the list.

Which drive?

If you are buying your CD-ROM from an Atari supplier it is even easier, because the drive will come with a copy of ExtenDOS and be guaranteed to work with an ST. HiSoft is offering two models, a 2.4-speed for £229 and a 4.4-speed drive for £289. These prices include ICD's Link 2, ExtenDOS and even two CD-ROMs to get you started. Call HiSoft on = 0500 223660.

System Solutions also offers an Atarispecific SCSI CD-ROM kit, based on the

SPEED

The faster your CD-ROM drive can spin the disk, the more quickly you can access the data. Audio CDs were the first on the scene, and thus set the original standard for CD speed - 150K per second. All the faster CD-ROM drives state their speed relative to the original standard.

Therefore, a double-speed CD-ROM drive is twice the speed of the original, a quad-speed drive four times faster, and so on. Because the IDE standard is significantly slower in its data transfer rate than the SCSI standard, it is worth noting that a four-speed IDE CD-ROM player will not be quite as fast as its SCSI counterpart.

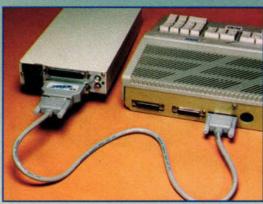
Toshiba quad-speed (4x) mechanism. It includes ExtenDOS and the Link 2, and costs £319. Call = 0181 6933355 for details.

If you buy a SCSI CD-ROM drive from a non-Atari retailer, you will need a copy of ExtenDOS, and you may also need the Link 2 host adaptor. ExtenDOS costs £39.95 from System Solutions and you can get the Link 2 (£69.99) from First Computer Centre (# 0113 2319444). If you are using the Toplink SCSI interface with your current hard drive, there is a very good chance that it will

work with your CD-ROM drive as well; however, we recommend the Link 2

for maximum reliability.

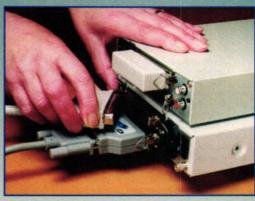
u are using the CD-ROM drive without a hard drive - despite our advice to the contrary - this is how the SCSI connection looks when the cable is ed directly into the CD-ROM drive. As you can see it 2 just looks like an over treat. ink 2 just looks like an over-sized plug, but it actual ains a highly miniaturised SCSI interface. Because it has a standard 50-way centronics plug as its output, you can plug it into any modern external SCSI device, such as a hard drive, CD-ROM drive or tape drive. The extra SCSI socket on these drives means that chaining on further devices is very straightforward.

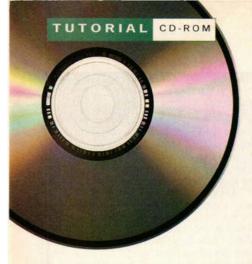




a more realistic hard drive and CD-ROM setup. The Link 2 is fitted to the hard drive, which is first in the chain, and then a SCSI-SCSI able is used to join the hard drive to the CD-ROM drive. The plain white block in the top socket on the CD-ROM drive is a termination block. This is required on me systems to close off the SCSI chain properly. Most CD-ROM drives are supplied with a terminator, and you may encounter problems if you don't use it.

vice on your system must havice number, so that your ST re you use a small screwdriver or needle ne counter round to the desired number. ct any number the r system. If your hard drive is device nur ce number 1 is a good choice.





Caring for your CD-ROMs

When CDs first became popular, one of their selling points was their relative strength compared to old-style records. It all sounded too good to be true, and so it was. While CDs are a little more resilient than records, a scratch or imperfection can render a data disc completely useless. The odd missed note may be acceptable on an audio CD, but the odd missed data bit on a CD-ROM is much more serious.

The usual rules apply: only ever hold them by their edges, and keep them in

their cases. If you need to clean one, use a very soft, clean duster and wipe the playing side gently until the smudge marks disappear. If a disc falls on to the floor

playing side down, try to pick it up without sliding it across the floor. Remember that CD-ROM discs can cost as much as £60 to buy, so damaging one is far more serious than

damaging a £14 audio CD. stf

CONFIGURE EXTENDOS

ExtenDOS Pro Installation Program Version 2.3

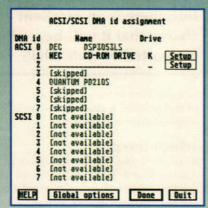
Install new version from drive Reconfigure existing version

HELP

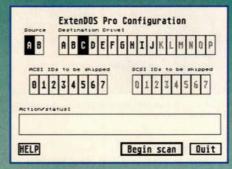
Continue Quit

Copyright 8 1995 Roger Burrows All Rights Reserved

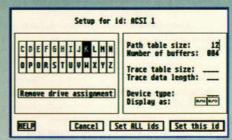
Place your ExtenDOS master disk in drive A or B, open it up and double-click on INSTALL APP. When you see this first dialogue box, highlight the top option to install a new version from the drive. The other option enables you to install a further drive or customise the driver ettings at a later date.



When the scan is complete, this dialogue should show your CD-ROM drive in bold type. Other devices show up in gray, because they don't concern ExtenDOS. Click on the setup button next to your CD-ROM slot to create a drive allocation. You can ignore the global options.



Next, you must choose the source and the destination drive for ExtenDOS. The source drive is the floppy drive you ran the program from, and we recommend you use drive C of your hard drive for installation. You can also highlight any device numbers you wish to skip to save scanning time. Now click on



All you need to do in this box is choose a letter for your drive. This is the letter which will appear on your desktop to represent your CD-ROM drive. click on Set this ID to complete the procedure the files will automatically be copied and configured for use. Re-boot your ST to use your new CD-ROM system.

continued



If the CD-ROM drive is your only SCSI device (highly unlikely) then the completed cabling looks like this. More commonly, the Link 2 would be connected to your hard drive and a standard centronics SCSI plug would be in the bottom socket of your CD-ROM drive. With the termination block fitted and the power plugged in you are almost ready to go, but don't forget the sound output ports. These standard RCA connectors are used to connect your CD-ROM drive to a pair of amplified speakers, or your hi-fi system, so that you can hear the music on audio CD-ROMs.



There isn't a software command to close the CD-ROM tray. Instead, you will need to press the Close button, or simply give the tray a gentle push. Once the disc has disappeared into the drive, the LEDs should flash, indicating that your machine is accessing the disc briefly, and then it's ready for use. On your Desktop, click on the drive letter which you have assigned to the CD-ROM. A standard GEM window will appear, showing the root directory of your disc.

Now for the moment of truth. Once you've followed our ExtenDOS setup guide (above), it's time to load a CD-ROM into the drive (printed side up). Be careful not to touch the playing surface when you're handling the CD-ROMs – a good thumb smudge is quite sufficient to cause data errors. If you are experiencing file copying errors, it may be time to reach for a soft, clean duster and give the surface a gentle wipe.



NSWETS writes down the answers.

Frank Charlton shines a bright light full into the eves of your ST-related problems, forcing them to reveal all. Mac Marsden

I read with great interest the review of Outside, the virtual memory utility, in issue 82. I have an STE upgraded to 2Mb, a 40Mb hard drive and a second disk drive. This system is well suited to my needs, which mainly involve word processing, DTP and some comms.

Upgrading to 4Mb would cost about £47, more than £20 less than Outside. I know this is still cheap, but I don't really want to spend so much. My system is adequate for most of my work, and it isn't really worth my while to spend £50-70 on it.

		Total S	10E V3.10	Configur	atton		
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Virtual ROM 1	nemory is to RMM, wr tibility s	n HØyte:	18_ ection Memory	Alterna ROM to I	RAM, no M	rite pret ck cartri	ection

It's memory, Jim, but not as we know it. Outside won't run on an ST, though - you need a 68030 processor.

However, I occasionally run into memory problems with large text files when I'm working with That's Write 3, especially if I'm using several fonts, and this does cause me difficulties printing. I am therefore writing to ask if you know of any shareware or PD utilities which would give me virtual memory capabilities the concept sounds great. Or should I go for the upgrade? Robert Stead, via e-mail

There are two things you need to consider here, Robert. First, however good virtual memory may sound in theory, it's never a substitute

for the real thing. Even the fastest hard drive is significantly slower than a RAM chip, so performance always drops when virtual memory is working hard. However, virtual memory utilities can get you out of trouble when you need to go beyond the limits of your real memory, and Outside is best of the bunch.

The second point is

that virtual memory requires something a standard STE doesn't have - a protected memory management unit, or PMMU. The PMMU prevents the virtual memory system from clashing with real memory and hard drive accesses, and it isn't possible to use virtual memory without one. The STE's 68000 processor doesn't have this capability - Outside was designed for the 68030 chip used in the TT and Falcon, and the PAK series of upgrade boards.

The price you mention isn't too steep when you consider you're doubling your memory, and it does make a difference, especially to RAM-hungry programs such as That's Write.

RAM IT HOME

I own a Falcon, and as I live in New Zealand, I am finding it hard to get information about what my machine can do. I am not on the Internet at the moment, and there aren't many BBSs in my area that have Atari files.

I was intrigued to find out, from the Falcon manual, that you can put a 386SX chip in



the Falcon for some impressive emulation. I would like to know a bit about this, including what it is capable of, the cost, and what it needs. Can you put a 486 chip in? What speed does it have to be? I presume there is a kit which plugs into the Falcon's expansion slot and has all the necessary hardware on board.

Is the Falcon limited to 14Mb solely because of the special Atari memory? I have a board for the memory, so I can use 72-pin SIMMs instead. I am wondering if I can put more than 14Mb of RAM in my machine.

Richard McKeown, Paraparaumu, New Zealand

Despite the potentially misleading information in the Falcon manual, you can't just add an Intel chip and turn your Falcon into a PC. The emulator boards included lots of custom circuitry, along with the Intel processor, and plugged into the Falcon's internal expansion slot. The only ones we know of were sold in the UK by the now-defunct Compo, and weren't really much good compared with

HISOFT C CENTRE with Mac Marsden

If you have any questions about HiSoft C, send them to Mac at: HiSoft C Centre, ST FORMAT, Future Publishing, 30 Monmouth St, Bath BA1 2BW. Alternatively, send an e-mail to: mac.marsden@dial.pipex.com.

LIBRARY COMPATIBILITY

Can you please help me with the following questions? 1 Why do some programs written in, for example, HiSoft C not compile in other C programs? 2 Is the command evnt_keybd() only used by HiSoft C? Other compilers won't accept it. Bert Holliday, Glasgow

Bert, thank you for your letter. I will A answer your questions as best I can. 1 HiSoft in its wisdom has mixed four C libraries: ANSI, UNIX, HiSoft C and GEMDOS (the library is stated to the right of the command explanation in the HiSoft C Interpreter manual, pages 152-288). Mixing these libraries together will only work with the HiSoft C interpreter.

If, for example, you want to write your program on the Atari and then compile it on a PC, there are two things you must keep in mind. All the commands used in your code must be ANSI compatible (unless you are going to use it on a UNIX system, in which case ANSI and UNIX commands may be used).

You must also declare your header files. These files have been put in the background in the interpreter, but need to be included when you're using compiled C. They tell the compiler which commands are to be included. For example, the printf ("") statement is held in stdio.h. If we wish to use printf then the statement #include <stdio.h> must be added at the beginning of your program.

This must be done for each statement within your program. It can be very frustrating initially, but eventually you learn which library contains which command.

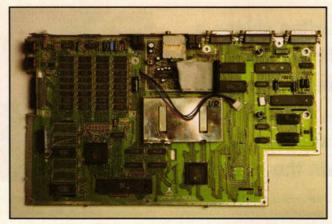
2 Bert, yes, evnt_keybd() is a HiSoft C-only command. Similar ANSI commands include fgetchar(), getc() or gets(). These commands also wait for a key to be pressed; in the last case a string may be entered.

ATARI TO AMIGA

My friends at school all have Amiga computers. We are doing Information Technology, and learning how to program in C. If I write a program using HiSoft C, can I give a copy to my friends so they can load it into their C programs and run it? Brian Ord, Sheffield

Brian, what a can of worms you have A opened. I must admit that I don't have any experience of Amiga machines.

However, I do know that Amiga owners can use CrossDOS or MessyDOS to read MS-DOS format floppy disks. If you save your C program as a text file and copy it on to an DOS disk, your friends should be able to access it. Alternatively, if you are all connected to the Internet, you could e-mail text files to each other.



The STE's motherboard is a complex beast, with lots of chips and wires and stuff, and circuit diagrams are hard to come by these days.

the real thing. Considering how inexpensive secondhand 286 and 386 machines are now, they are a bit of a non-starter anyway.

As for the memory, the Falcon can take 16Mb of RAM, but can only address 14Mb due to the hardware design. If your board is a FalconWing or similar, you can only use four 4Mb SIMMs in it.

Even the BlowUp FX card from System Solutions (\$\pi\$0181 6933355) doesn't enable you to access more than 14Mb, although future versions of its software should make this possible.

IN THE FIELD

I am an engineer working in electronics and computing and I own two 1040STE Atari computers. I would like to know precisely how the hardware

works, and I am therefore looking for the electronic diagram of the 1040STE as well as the PCB layout plan. This sort of information would normally be available to Atari repair shops, in the form of maintenance documentation. Could you tell me where I could find this sort of documentation (if it is for sale), and how much it would cost me to buy it?

Thierry Sutter, Paris, via e-mail

What you're looking for is the old Field Service Manuals produced by Atari when the STE range was first introduced. These manuals were never sold to the general public, though, and seem to have long since disappeared. Most Atari repair outfits will have these manuals, but won't be able to provide you with copies for

obvious copyright reasons.

While there are still books and text files available which delve into the hardware, none of them offers the depth you're after in terms of circuit diagrams. If anyone does have an old manual they'd be willing to part with – or any other information which might help – drop us a line, and we'll put you in touch with Thierry.

ZIP ALONG

I own a 1040STE

– a very old model,
because in Singapore
you can hardly find a Atari
shop. Recently I brought a
SCSI Zip drive (from Iomega
Systems) on the recommendation of a friend.

I thought I could plug and play with my Zip drive until I discovered that the 1040STE hard drive port has only 19 pins. Is there a way to connect my SCSI 25-pin lead to this 19-pin port?

K-leb D'Cat, Singapore, via e-mail

The hard drive port on the ST and STE only uses 19 pins for a simple reason – it isn't a SCSI port. Atari didn't adopt the true SCSI standard until quite late in the day, and it used its own DMA system for hard

drive access on the ST range.

If you want to connect a standard SCSI device - and this applies to hard and CD-ROM drives, as well as the Zip drives you need an extra piece of hardware called a host adaptor, which translates the drive's SCSI signals to DMA ones the ST can understand. There are several designs, but we recommend you go for the ICD Link 2, because it's the only one which works reliably with the Zip drives. If you can't find an outlet in Singapore, one of the UK dealers should be able to sell you one by mail order. Try either HiSoft Systems (# +44 1525 718181) or First Computer Centre (+44 113 2319444).

IN PARALLEL

I have an Iomega Zip drive connected to the parallel port of my PC. Can you tell me where can I find a suitable software driver so I can use it with my



We don't know why it's called a Zip drive – you can't use it to hold your trousers up. (I've always used a belt for that – Nick.)

GRAPHICS STUDIO with Frank Charlton

You've probably already noticed that ST Answers has a new look and layout. We're also going to be introducing new individual columns on an irregular basis. This month, we're covering queries related to art and graphics. If there are any topics you'd like to see covered, drop us a line at: ST Answers, ST FORMAT, Future Publishing, 30 Monmouth St, Bath BA1 2BW.

BITS AND BOBS

Whenever I read anything which mentions graphics, I see you talking about the graphic in terms of how many bits it has, such as a 24-bit or 8-bit image. Can you explain these terms to me, and tell me how many bits the ST has for displaying graphics?

Phil Futers, Cardiff

A It's a simple system once you know how it works, Phil, and can describe the colour depth of any graphical display. The table below explains the various options:

- 1-bit 2 colours (ST monochrome)
- 2-bit 4 colours (ST medium resolution)
- 4-bit 16 colours (ST low resolution)
- 8-bit 256 colours



Persistence of Vision can produce some totally jawdropping images, even on a standard ST. You need never raytrace in 16 colours again!

15-bit 32,768 colours

16-bit 65,536 (HighColour) 24-bit 16.7 million colours (TrueColour)

So, as you can see, a plain vanilla ST runs in either 1-, 2- or 4-bit colour depth, producing monochrome, four- or 16-colour displays respectively. Although Atari describes the Falcon as being capable of TrueColour, it really only has a maximum depth of 16 bits. Generally, though,



See this source file full of complex head-bursting maths? Feed it to POV and it'll produce a gorgeous 16.7-million-colour image.

when we mention TrueColour in ST FORMAT, we're referring to Atari's less colourful version.

RAY OF HOPE

I'd like to get into composing and rendering 3D graphics like the ones I see in some of



Anonymous, via e-mail

Bad news, I'm afraid. Iomega produces two variants on its popular Zip drive mechanism - one for direct SCSI connections, and one for PC machines without SCSI controllers, which connects via the printer port. The parallel version uses special driver software written for the PC, and there isn't a version available for the Atari. To use the same Zip with both computers, you'd need the SCSI version and a SCSI controller card for your PC, as well as an ST host adaptor such as the ICD Link 2.

SEEDY ROM

I notice you've just done a review of the Jaguar CD-ROM unit, and I was wondering whether you've noticed a problem which I've just discovered.

If you flip open the lid, insert a CD, close the lid and then turn the power on, a loud scraping or knocking noise comes from the unit as the CD starts to revolve. I have found that the CD has to be pressed down quite firmly to rectify this problem.

Does your unit behave like this, or is mine faulty? Mike Broadhurst, Leicester

It's a fault, Mike. I remember quite a few users in the USA complaining about this problem when the JagCD was launched last year. It appears that a small batch of CD units slipped through Atari's quality control net with slight faults on the lid-locking mechanism.

As you've bought yours new, just return it to the retailer and ask for a replacement. It was only a small proportion of drives which suffered this annoying problem, so the replacement should be okay. Ours is fine – we would certainly have mentioned any problems like that in the review.

PORTABLE PAL

I'm a freelance guitar technician touring with a major musical production, and the proud owner of an Atari STacy with 4Mb of RAM and a 105Mb hard drive. I have encountered some problems, which I hope you may be able to give me some help with.

- 1 Is there any way to connect the STacy to external speakers? The output through its own internal speaker is quite low. 2 Similarly, is there a modulator I can use to connect it to a television?
- 3 Is there a colour emulator which will work on the STacy? 4 I have access to a Digital LA210 Letterprinter, which is a wide carriage serial printer. Is there any way I can connect this to the STacy?
- 5 I would like to increase the size of the hard disk on the STacy. Will it be possible to use the old hard disk in an STE? Also, as Compo which originally supplied the STacy seems to be no more, is it possible to do the job myself? If not, do you know of a company which can do the upgrade for me? Steve Wollington, Basildon

Okay, Steve, let's see what we can do to help. In order, the answers are: 1 There is, but it's a bit of a kludge. The STacy's monitor port supplies audio on pin 1. By connecting a plug with only the audio pin and the signal ground attached, you can hook up a minijack connection at the other end, and plug it into a pair of amplified extension speakers. You could also hook up a pair of phono cables and inject the sound into a hi-fi amplifier. Take a look at the diagram (overleaf) for details. 2 There were some modulators years ago, when the MegaST models were popular. Sadly, we don't know of anyone who still makes them.

3 Without having a STacy to try them on, we don't know for sure. Any of the limited batch of colour emulators should work, as long as they don't rely on STE hardware. 4 Without knowing more about the printer it's difficult to say for sure, but I doubt it. The ST uses the parallel port for printing, rather than the serial one, so all applications and printer drivers expect the printer to be hooked up to that port.

5 Yes, you should be able to have a bigger hard drive fitted to your STacy. Apparently the clam-shell case design is almost impossible to open fully without the right tools, so it's best not to try it yourself. Contact CP Rossiter on \$\pi\$ 0115 9681870 for more information about this upgrade.

Like Atari's original Megafile drives, the STacy's internal hard

my brother's PC magazines. I gather this technique is called 'raytracing'. Are there any programs for the ST which can produce high-quality images, or am I stuck with the dull 16-colour display yet again?

Anthony Carter, Yeovil

A You aren't restricted by the ST's limited palette at all, Anthony. There are quite a few raytracers which can render images in up to 16.7 million colours, even if you're running in a monochrome resolution.

The two I'd recommend for beginners are RayStart and Xenomorph 2, both from 16/32 Systems (= 01634 710788). RayStart is probably easier to get to grips with if you've never raytraced before. It also comes with its own 3D modelling package (Xenomorph doesn't – you need CAD-3D from the Cyber series to actually sculpt 3D objects).

King of all raytracers is the Persistence of Vision suite, which is freeware. The snag is that you need to learn a scene description language before you can create files which POV renders into images. It isn't easy to get to grips with, but it does produce some stunning photo-realistic images. Most PD libraries can supply POV.

COVER YOUR BASES

My father has a PC, and wants to send me some images he has stored in PhotoCD format as JPG files so I can view them with Speed Of Light. We're not sure what to do, though, because his software keeps asking him which 'base' he wants to load from the PhotoCD image. What's going on?

Mike Harrison, Doncaster

A PhotoCD images aren't stored like regular images. Each 4Mb file on the CD actually contains multiple copies of the same image at different sizes. These sizes are identified using the Kodak Base system. In other words, your father's PhotoCD software is just asking which version of the picture he wants to load.

The sizes start at Base/64, a small 64 x 96 pixel preview size, and progress to Base 16, a mammoth 2048 x 3072 pixels. Since you want to view the results in Speed Of Light on a standard ST screen of 320 x 200 pixels, you probably want Base/4, which measures 256 x 384.

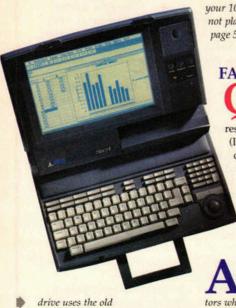
The next step up from that is Base, and it measures 512 x 768. As the name implies, this is the standard resolution. You'll need to use Speed Of Light's mouse scrolling to see the



PhotoCD is a great way to store digital photographs, thanks to Kodak's method of storing the image at several different sizes.

whole image if you choose this size.

Alternatively, if you invest in a CD-ROM drive, ImageCopy 4 CD (£39.95, from FaST Club = 0115 9455250) will load the images and convert them to JPG pics for you, so you can just borrow your father's PhotoCD. ImageCopy 4 was reviewed in issue 75, where it scored 94%.



RLL/MFM system rather than the

newer SCSI standard, so you

STE. You might find a fellow

won't be able to hook it up to an

STacy owner who is interested in

your 105Mb drive, though. Why not place a free Reader Ad – see page 52.

FADE TO GRAY

Is it possible to run
STE games on a
low to medium
resolution mono monitor?
(I already own a high resolution mono monitor).
If so, how good or bad
are the pictures compared to those on a
colour television?
Chris Cairns,
Glasgow

Chris, we're presuming you mean the black-and-white or grayscale monitors which accept low and medium resolution input from an ST, such as the ViewTek grayscale monitors sold by Silica Systems. If that's the case, then yes, you can play games, or use any other

software which runs in low or medium resolution.

These monitors are the computer equivalent of black-and-white tellies, and they display four or 16 shades of gray rather than colour. The image is sharper than that of a television, and they're better for serious activities such as word processing.

Quite a few games use colour to provide feedback, though. Elite and Elite 2, for example, use different colours to separate enemies from friendly spacecraft in the radar scanner, so playing in shades of grey makes the game much more difficult. Unless your television is giving you eyestrain, we'd recommend you stick with it for games and use your high-res mono monitor for serious work.

BOOTUP BLUES

I have a 520STFM upgraded to 1Mb. I have just purchased a 20Mb hard drive which is connected externally. When I try to install it, a dialogue box appears telling me that the drive does not

drive does not exist, and to change the drive identifier. When I try to do this, the same dialogue box appears. How do I install an external hard drive like this? It is an Atari SH205.

David Scriven.

The SH205 is quite an old drive. It doesn't use the SCS1 system to connect to your ST, relying instead on Atari's original DMA

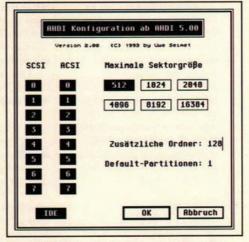
Wolverhampton

connections. Since the ST doesn't have the code to access a hard drive built into the ROM, it needs an extra piece of software, called a driver. In the case of the SH205, this was Atari's own software, AHDI.

The AHDI software needs to be run before your ST can recognise the attached drive. If you didn't get a copy when you bought the drive, all isn't lost. Atari let AHDI slip into the PD circuit some time ago, so you can pick it up from almost any BBS or PD library.

SPEED DEMON

Is it possible to use an accelerator board to speed up my ST when



The old SH drives from Atari weren't SCSI compatible. You need the AHDI driver software to make use of them.

Phono Right

It isn't difficult to connect speakers to a STacy. This setup works for an STFM, too.

ALT.COMMS.STF@ with Frank Charlton

If you have any questions about comms or the Internet, send them to Frank at: alt.comms.stf@, ST FORMAT, Future Publishing, 30 Monmouth St, Bath BA1 2BW. Alternatively, send an e-mail to de18@dial.pipex.com.

FUN WITH FLOATERS...

When I rang an Internet provider recently, I was asked if the Atari software supports non-static or floating IP addresses. I must confess I didn't have a clue what the salesperson was talking about, and I thought you would be the best person to check with. Does the usual Atari stuff support these addresses, and what exactly are they?

Bill Dexter, Chelmsford

A Let's answer your questions in reverse order. Originally, service providers gave every customer a static IP address for their account (IP addresses are composed of four numbers separated by decimal points, and are used to identify computers on the Net). Static addresses never change – you have the same IP number each time you connect to the Internet.

Since then Internet has taken off in a way most providers never imagined, and IP addresses have started to run out. One solution is to share the addresses among all customers we aren't all connected at once, so the same

PHILO COMP

Apply First	Telephone	
WAIT: ogin: REPLY: {hostname} PRUSE:		
Second	Fourth	
HAIT: Hord: REPLY: {password} PRUSE:	HAIT: IP Address:	
Third	Fifth	
HAIT: ocol: REPLY: slip PAUSE:	MAIT: REPLY: PAUSE:	

STiK supports the non-static IP addressing used by many service providers by using the \$GET_IP variable to snatch your address when you connect.

number of addresses should go much further. Most providers are now taking this route, with the notable exception of Demon, which still supplies static addresses.

The original AtariNOS kit doesn't handle floating addresses well at all. The software has to be able to receive and decipher the IP address from the service provider's machine at connection time, and NOS has no provision for this. However, the developers of STiK and Oasis 2 are working on full dynamic address support. Early versions are proving problematic on some machines, though – more news as we get it.

PPP CONNECTIONS

Could you please advise me on any software that would allow me to use a PPP connection, because CompuServe and many other good Internet providers are now changing to PPP with non-static IP addresses.

Brian Scott, via CompuServe

A Oasis 2 is out now, and includes a full PPP connection driver as standard. At the time of writing, it seems as if the handling of floating IP addresses is less than satisfactory, though – a number of people have encountered all sorts of bugs. Since we haven't yet tested Oasis 2 properly, we can't say what could be causing the problems, but a fixed version should be available from all popular Atari FTP sites by the time you read this.

STIK also handles floating IP addresses, and Dan Ackerman is busy putting the final touches to the STIK PPP driver. Watch this space.

GRAPHICAL GLOOM?

The company I work for runs a private BBS for employees only, which I need to access. The snag is that it runs on an Apple Mac, using a BBS system called FirstClass, and you need a special client program to access it. This client program enables you to access the

I'm running 3D vector games such as Frontier, which gets too slow when there is a lot of detail on screen? If so, is it possible to turn off the board when running software which doesn't need that extra zip. I can't imagine playing Kick Off 2 any faster! Sheldon Southworth, St Helens

Yes, it certainly is. We ran a feature in issue 82 which included everything you need to know about accelerating your ST. If you missed it, flip to page 50 and order a back issue.

Most accelerator boards offer the option to switch your ST back to standard 8MHz mode, since some software relies on the CPU for timing purposes. Never mind Kick Off 2, try playing Vroom in Turbo mode on an accelerated ST. Then you'll really see a game that's too fast!

CABLE CRISIS

Since March I have been trying to get my Iomega Zip drive to work with my ST, using the ICD Link 2 host adaptor. I can't format the drive - when I click on the ZIP.ACC, it says "NO IOMEGA ZIP DRIVES FOUND" when it is connected. I was told to put the Zip drive before my hard drive, but I can't do this without buying

more cables, and I can't run the Zip alone because there wouldn't be any power to the Link 2.

Frank Young, Canary Islands

I have just spoken to HiSoft's technical support people, and they confirm that it's likely to be the cables which are at fault. Thanks to the low power produced by the ST's DMA port, you really need top-notch SCSI cables to hook up more than one device.

HiSoft says that you should either place the Zip first in the SCSI chain or replace the existing cable. Either option should alleviate the problem and enable the ICD software to see the Zip drive.

So, it looks as if you need new cables. It's worth noting that although you can pick up SCSI cables very cheaply from some sources - we spotted some for £5 recently - they're unlikely to work with more than one device on an ST.

You can call HiSoft from the Canaries on # +44 1525 718181. It can also provide a power cable, enabling you to run the Zip drive on its own.

RATS!

I need your advice regarding the RATSoft BBS software. When you want to write a message in a networked message base, you're given three choices as

ICD Hard Disk Formatter Version 6.12 Copyright 1 1993 Inter hard disk partitions, or use calculated defaults START & END SECTORS | SIZE | TYPE | NAME CLEAR DEFAULT MRX SPLIT Start Size OLD Quentum1.___ / 183593 94.88 BGH 183594 367188 Quentum2.___ /
Private_.__ / 94.88 367187 SECTORS MILABLE: 289.18 EXCESSI RECALCULATE PRINT 11 CRHCEL QUIT RTITION INFO ONLY REBUILD ONE PARTITION ONLY PARTITION ENTIRE HARD DISK

The ICD Link software will format a Zip drive, but you may need high-quality cables first.

to how you want the mail routed - Crash, Hold or Free. What is Free?

Also, how do you address echomail in RATSoft? On PC BBSs the mailing software has separate lines for the person's name and their Fido address, whereas RATSoft only has one address line.

One more question: what mailer and tosser are you using with your BBS? John Moon, Australia, via e-mail

Messages posted in a public networked base on a system such as NeST don't need to be addressed to anyone specific. Echomail is simply passed from one BBS to another

along the network, and can be read by all users. RATSoft and the mailer software takes care of everything else for you. Only Netmail - direct private mail between two users - needs a destination address, and RATSoft prompts you for that.

As for Ad.Lib, we use the BinkleyTerm mailer and a registered version of the JetMail mail processing system. stf

Troubled, traumatised or otherwise stuck for an ST solution? Send your questions to techno guru Frank Charlton at: ST Answers, ST FORMAT, Future Publishing, 30 Monmouth St, Bath BA1 2BW. Alternatively, send an e-mail to: de18@dial.pipex.com. Please put STA in the subject line.



The Mac's FirstClass BBS system can still be accessed from an Atari, even if you don't have the fancy client software.

BBS via a graphical interface.

As far as my system manager can gather, the client is only available for Macs and Windows PCs, and not for the Atari. Since I have a powerful Falcon, would it be possible to get someone to write a version for it, or can I get round the problem any other way? **Dave Simmons, Stirling**

Yes, we know the system you mean. FirstClass offers users a smart graphical front-end to save them from the command line interface dreaded by most Mac users.

There isn't a client for ST and Falcon users, and writing one could be difficult. SoftArc Communications, the company which produces the BBS software, is unlikely to release the source code, so porting the client to the Falcon would be challenging', to say the least.

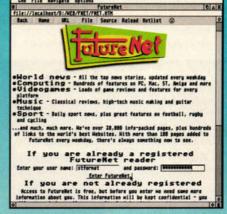
Thankfully, there's a solution. Ask your manager to contact SoftArc about its command-line interface add-on, which allows anyone with a normal text-based comms package to connect to the BBS. From your end, it looks like any other ASCII-based BBS, and you'll be able to use it as easily as anyone with the all-singing client software.

CALL A CAB

When I try to register with the Futurenet When I try to register with the ST FORMAT pages, the form used to enter my name and password never works. I even got a friend to pre-register me using a PC browser, but CAB still can't access these pages.

Dozens of people, across the world

Good news on this front at last. Thanks to the diligence of the CAB testing team, this



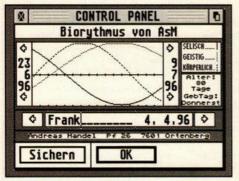
The next version of CAB will finally sort out those niggling problems with some HTML forms including Futurenet's.

bug has finally been spotted and thoroughly stamped on. The current beta version of CAB now supports forms properly, and can access any of the pages on the Futurenet Web server with no hassles.

The latest version isn't on general release as I write this, but should be out very soon indeed - watch the News pages for details.

Control is everything

Power is nothing without XControl, so add some go-better stripes to your ST with this handy Accessory. Frank Charlton revs up.



This odd module claims to foretell your emotional state. Apparently, I was deliriously happy when I wrote this. Hmm.

ontrol Panels are small programs which you access via Atari's XControl Accessory. Most are configuration utilities or simple tools, but you can also get various gadgets and games. This system enables you to add all sorts of small-scale bells and whistles to your system.

History lesson

To understand how Control Panels fit into the scheme of things, you need to know a bit about the history of the ST. When it was launched, Atari was both criticised

and applauded for adopting many of the more user-friendly features of the Apple Mac, including menus, icons, windows and Desk Accessories. It's the last of these, Accessories, which concern us here.

Desk Accessories are small utility programs which are available when you are working in a GEM application (see Absolute Beginners, STF 83, for a more detailed explanation). The snag is that you usually only have six Accessory slots, and you need to re-boot or switch resolutions to change Accessories.

With the introduction of the TT and TOS 3, Atari came up with a better idea. Since many Accessories are used to configure other programs, or are small but indispensable utilities, why not create a system which offers the same facility, but with fewer restrictions? Thus, XControl - the eXtensible Control Panel - was born.

XControl itself runs as an Accessory. However, unlike regular Accessories, XControl extends its basic functions using plug-in modules called CPX files - Control Panel eXtensions. Effectively, it provides additional slots from within. The biggest plus over standard Accessories is that XControl can load and unload CPXs as many times as you like in a session.

SHAREWARE

Both ZControl itself and a large proportion of the freely-available CPX modules are shareware. Always check the documentation, and stump up if you use a program or CPX regularly.

ZControl registrations in the UK are handled by Denesh Bhabuta. Write to: CyberSTrider, 203 Parr Lane, Unsworth, Bury, Lancashire BL9 8JW or send an e-mail to: dbhabuta@cix.compulink. co.uk. It costs £6 to register ZControl.

Atari's original programmers' guidelines for XControl stated that CPX modules should be used for small programs, such as configuration utilities, rather than full applications. Since the window size of a CPX module is limited - it can't be bigger than XControl itself - there isn't much

Still, that hasn't stopped programmers from coming up with CPX modules of all flavours. As well as the configuration tools supplied with commercial programs such as MagiC and NVDI, you can get disk formatters, file tools, games and even a full-blown icon editor in CPX format.

Games

The size of the XControl window limits the type of games programmers can produce you're not going to get Obsession as a CPX,



If ever you feel you have too much hair, have a stab at solving Andreas Mandel's Number Puzzle. It's guaranteed to have you pulling out fistfuls of follicles after an hour or so.

ZCONTROL AND STANDARD TOS

arlier versions of ZControl were only really happy with a multitasking perating system. Under normal TOS, it couldn't load your selected CPX files at boot-up, so you had to force it to load them manually every time

you switched on your ST, However, the latest version has a new command which enables you to force CPX loading even under standard TOS. You'll need to tweak the default ZControl setup to get it to work, though.



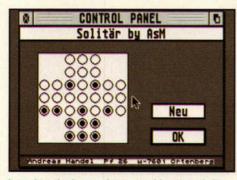
Copy ZCONTROL.ACC to your boot drive and re-boot, so the Accessory is loaded. Open the window and click on the Options pop-up menu. Select Setup to open the standard setup window, which is much like XControl's. Don't fiddle with anything just yet - simply click the Save button.



Step 1 forced ZControl to create a ZCONTROL.INF file in the root directory of your boot disk ZControl uses this file to store its settings. Open it in any ASCII text editor, nip to the bottom, and add a ne which reads SINGLELOAD = TRUE. This will force ZControl to load the current modules at boot-up.



When you next re-boot your ST, ZControl should automatically detect and load any valid CPX modules in your CPX directory. You don't need the extra line if you have a multitasking system such as MagiC or MultiTOS, but it won't do any harm, either. And that's all there is to it, as they say.



It may be a simple game, but we spend far too much time trying to beat it. Er, and we always succeed, honest.

that's for sure. However, you can pick up some nifty little puzzle games which will kill a few minutes while you're waiting for a large file to download.

Andreas Mandel's Number Puzzle is a simple sliding-block affair, using a grid filled with either numbers or letters. Simply sort them into order to solve the puzzle. Andreas has also created a compact version of Solitaire, and other CPX games include a few versions of Othello.

Utilities

LOCK is a useful tool if other members of your family are prone to fiddling with your ST while you're not watching. Enter a password, then open the CPX before you leave the room. Anyone wandering in can't shut the CPX down without the password, so your ST is secure.

FILEINFO, brought to you by GEMView's Dieter Fiebelkorn, is a musthave. As well as providing useful file information, it enables you to create new folders and copy, move and delete files.

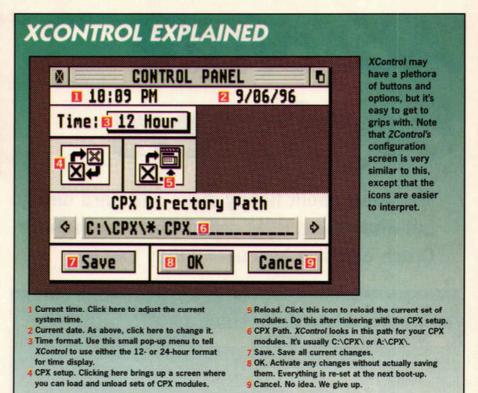
There are literally hundreds of disk tools available in CPX form. It seems every programmer has cut his coding teeth by knocking out a CPX to format floppies there are tons of them in German, English and French. If you have a hard drive, there are numerous modules which can tell you how much free disk space you have across all your partitions and supply information on available memory.

Miscellaneous

Despite Atari's recommendations on CPX usage, there are some modules which certainly don't fit into any normal category. Biorhythms, for example, is a tiny tool which predicts when your life and emotional state are likely to reach high and low points. It's another Andreas Mandel



Use LOCK to protect the blueprints for the flying saucer made from washing-machine parts. Trust no-one.



program and, despite being in German, is fairly self-explanatory. We aren't sure it's based on any scientific fact, but it's quite amusing and demonstrates the versatility of CPX modules.

As well as configuration utilities, you can get disk formatters, file tools, games and even an icon editor

Alternatives

As you know, Atari gave up on the ST and Falcon side of its business long ago, so XControl hasn't been updated in quite a while. It does have a few bugs, and you can only open one CPX window at a time.

Programmer Ralf Zimmermann decided to do something about this and created an XControl-compatible replace-

ment called ZControl. It's on this month's Cover Disk, and you should certainly take a look at it if you use CPX modules regularly. It's a more recent application, and therefore much happier under modern TOS versions and multitasking operating systems, and it has a number of worthwhile extra features. For starters, ZControl can open up to four CPX modules at once.

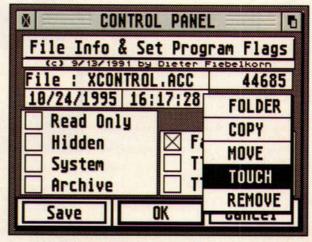
One of ZControl's smarter functions comes into play if you're running a multitasking environment which supports drag and drop, such as MagiC, or MultiTOS fitted

with AES 4.1 or above. If you want to try a new CPX module, you usually need to place it in the CPX directory and tell XControl to load it. With a drag and drop system, you just pick up the CPX module's icon and drop it into the open ZControl window. It then fires up immediately.

If you're going to use the module regularly you'll need to move it into the CPX folder later, but this feature is very handy if you're wading through a huge collection of CPXs. This also works if you're using a replacement Desktop which supports the AV protocol, such as Gemini.

If you're using the standard TOS fitted to your ST, without an alternative Desktop, simply install ZCONTROL.ACC as an application for the file type *.CPX. Double-clicking a module from the Desktop will then pass it to ZControl in much the same way.

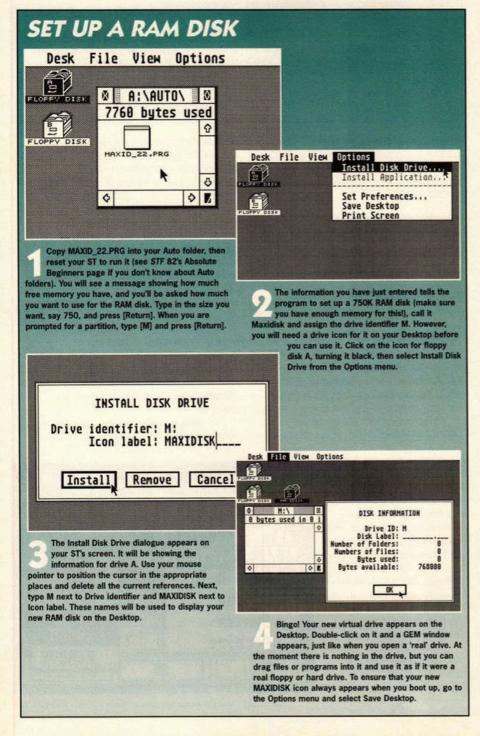
So, there you are - power and control. All you need now is the software, which you'll find on this month's disk ... stf



With so many useful tools packed into one small window, FILEINFO is one CPX you should certainly put at the top of your shopping list.

Absolute beginners

You know about floppy disks and hard disks, but what about RAM disks? This month Peter Crush explains how useful they can be.





ou've probably heard of RAM disks, but not many ST users know exactly what they are, or how to set one up. If you fall into that category, you're missing out in a big way. We aim to put that right, and we'll show you exactly how to create and use a RAM disk. They're easy to set up and cost nothing, but can be invaluable.

RAM rage

All STs have random access memory, known as RAM for short. Memory comes on chips inside your ST and is measured in bytes. The more you have, the better. If you have plenty of memory you can reserve part of it for a 'virtual drive', or RAM disk. Although this RAM disk only exists in your ST's memory, and disappears when the computer is switched off, you can use it as an extra, temporary disk drive in the interim. Don't forget, though, that the memory used for the RAM disk isn't available to other programs.

Using a RAM disk is just like using a floppy drive - you can copy, load and save files and programs. It's even faster than a hard drive, so all operations will be much speedier, but you can't use it for permanent storage. When you turn the ST off, anything in the RAM disk is lost.

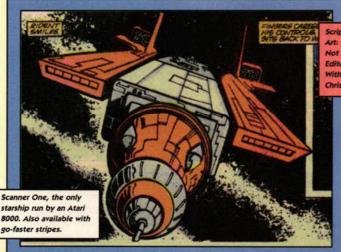
There are plenty of ST programs which establish RAM disks, but MaxiDisk is one of the best, so we've put it on this month's Cover Disk. It works with any ST and you can set the size to whatever you want. It also compresses the files, so a 500K MaxiDisk RAM disk can hold up to about 800K of stuff. It compresses and decompresses them as necessary, and the whole thing is carried out automatically.

What can it do?

There are 101 useful and exciting things you can do with a RAM disk, and we'll be covering some of them next month. We'll also show you how to set up MaxiDisk so it establishes itself automatically, and even copies programs into the disk for you.

Meanwhile, here's a great use for it. Take any ST game that you can run by double-clicking on the program name (this doesn't work with auto-running games). Copy the program and all associated data files into a suitably sized Maxidisk RAM disk, then run the program from there. It will operate faster and more smoothly, with none of those usual long delays while the next level is loaded. See you next month for even more useful tips and tricks with MaxiDisk. stf

Truth, Justice and the Atari way



Script: Cavan Scott Art: Paula Mabe Not mentioned: Mary Lojkine Editor-in-Chief: Nick Peers With thanks to: Chris Lund and Lee Seitz

> the hands of the all-powerful, and yet mysteriously nameless, Enemy.

Yet do not fear, true believer, all is not lost. Like a phoenix rising from the ashes, a group of scientists devises a brave plan to save the human race.

Believe it or not the fate of our planet lies in the hands of the ATARI institute!

That's right, our old friends at Atari have achieved the kind of world domination Bill Gates can only dream of. In this universe Atari fought off the rise of the Amiga, forgot about dead-end projects like the ST Book, continued to develop the ST and dismissed JTS, laughing at the very idea of a merger. Now, thanks to a handy war which wipes out the opposition, Atari has leapt from mild-mannered videogaming company to saviour of the universe.

The best of mates

Atari groups together the world's finest for Project Multiverse. Lead by Martin Champion, a Polish-American former Marine, the team includes Champion's colleague Dr Lucas Orion; Lydia Perez, a former astronaut; Li-San O'Rouke, a half-Irish, half-Chinese UN peacekeeper with the martial arts skills of Bruce Lee; and Mohandas Singh, a former New Delhi street urchin who is now Atari Force's resident genius. Together, they form the crew of Scanner One, a nifty starship with the ability to cross dimensional barriers to parallel universes.

Their awesome mission is to explore strange new worlds, seek out new life forms, and boldly go where no.... well, you get the idea. Atari hopes that Champion's team will discover a planet which they can colonise before Earth dies from the radiation unleashed by the

Enemy's snappily-titled Death Bombs.

While not winning any awards for originality, the Atari Force comics of the early '80s were a ground-breaking marketing ploy. Atari joined forces with DC Comics and produced five mini-books, printed in full colour on glossy paper, and included them with various Atari 2600 game cartridges. The first issue, edited by DC veteran Dick Giordano, appeared with Defender, and the saga continuing in Berzerk, Star Raiders, Pheonix and last, but not least, Galaxian.

Not quite the best of mates

Unfortunately, the books only played lipservice to the games they were distributed with. In defence, writer Gerry Conway has said that DC originally wanted to link the cartridges to the comics, but the wildly incompatible production schedules made it impossible. The decision about which game the issue was going to be included with was only made after the artwork from artists Ross Andru and Gil Kane had been completed.

The mini comics only lasted five issues. After shooting in and out of parallel universes, stopping only to liberate the odd planet, Atari Force finally found a planet which would support human life – only to discover that it was owned by someone else.

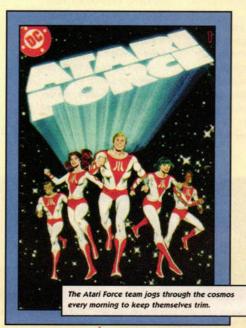
However, after saving the landlords from the Dark Destroyer, a particularly nasty, mind-controlling octopus, humanity is granted permission to colonise planet 11485-18-2, which is thankfully rechristened New Earth. All that is left for Atari Force is to nip back home, pick up the colonists and pop back to New Earth in time for the happy ending. As the sun sets, Champion pops the big question to Perez and Atari Force disbands, its mission accomplished. Or so the members



COMING NEXT MONTH: ATARI FORCE: The Next Generation.

Time traveller Cavan Scott meets Atari's superheroes.

t is the year 2005. The world of tomorrow is one you and I would barely recognise. Much of the planet has been decimated by a five-day war which makes every war in the 20th Century look like a school-playground skirmish. America, once the land of liberty and free thought, is now a cinder and at

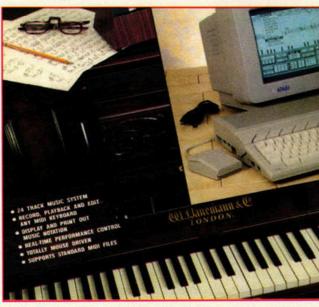




The Score

Opera, classical, jazz, rock, hip hop, jive, salsa, jungle, Gregorian chants. Andy Curtis changes the program and concentrates on program changes.

Pro 24 price mayhem



Despite what you might read, £14.95 is still the lowest price you can expect to pay for a new copy of version 3 of the Pro24 sequencer.

ur thanks to the many people who e-mailed us with the news that the First Computer Centre was selling copies of Pro24 (STF 84, 91%) for just £9.95, £5 less than the Goodman's price quoted in the review. We called First Computer Centre to confirm this, but it appears that it had very limited stocks, which have now sold out completely.

So, if you want to enter the fabulous world of Pro24, your best bet is to call Goodman's, and shell out the full £14.95 for it. Far be it from us to accuse anyone of penny-pinching, but is that really such a high price? There is, currently, no better value out there for newcomers to the world of sequencing. For your copy, call Goodman's on ☎ 01782 335650.

Patch Shifting

his month I'm going to deal with a question we are asked with alarming regularity, albeit in a number of different guises. Patch shifting, or, more accurately, program changing, is a system whereby your MIDI sequencer sends out numbers to your synths to tell them which sound to play.

Each sound in your synth is assigned a number so that patches can be accessed remotely via MIDI. Since people have different setups, the patch changes that work for you may not work for everyone else. This creates the problem of unwanted program change events in sequences.

The opposite problem applies if you don't know how to insert program changes into your sequences. You may need to change a patch half way through a piece to make best use of single-MIDI-channel synths, or you might want to change the patch on your effects unit in order to create a special effect at a specific point in your music.

Whatever your problem with program changing, you should find an answer in this tutorial. We have included examples in both Cubase and Breakthru, but the same general rules apply to most competent sequencer packages.

QUESTIONS

Sandra Blake, Huntingdon: My friend sends me his songs as Cubase arrangements, but I have to adapt them to play on my setup. Despite changing the program number in the Cubase arrange window, my friend's tracks keep changing back to his original setting every time I restart the sequence. He doesn't know why this is, do you?

Bob, via e-mail: Can anyone tell me how to insert program changes into tracks, please? I spent hours trying last night, to no avail. I'm using a Korg i4 keyboard and want to change patches for the second half of a song ... can I do it?

ANSWER

Both these questions are related to the way in which program changes are embedded within tracks.

Cubase uses a two-level system for program changes. The first is a compositional aid for setting up the patches you wish to use quickly. It is accessed via the track info column, which pops up next to your track list when you click on the square box at the bottom of the arrange window.

The values set in this box are used to set up your sequencer, and they can be changed at any time. If you have a part selected, the

More Twiddly Bits

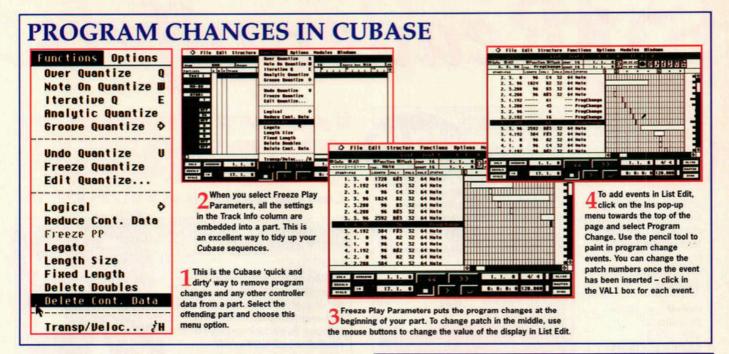
Keyfax Software is continuing its crusade to provide you with all the MIDI soundbites you need. Twiddly Bits 6 rejoices under the delightful name of The Funk and costs £24.95

The two elements tackled here are bass and saxophone. The bass lines are performed by Freakpower's Dale Davis and the sax riffs are courtesy of M People's Snake Davis. Every soundbite is performed live and converted to MIDI using advanced wind and guitar MIDI interfaces. In other words, you need look no further than this disk for that convincing bass or sax riff.

All the sequences are held as standard MID files and load directly into Cubase or any sequencer which can import standard MIDI files. Call Keyfax Software on # 01734 471382.



Liven up your MIDI bass and sax riffs with Twiddly Bits 6, The Funk. It's well 'ard and kickin' - or so we are told. Ahem.



program change value you enter will only affect the selected part; if no part is selected, the parameters set affect the whole track.

So far so good, but what if you experience Sandra's particular problem and your program change number appears to be overridden by a more powerful instruction? This happens because there is program change data embedded in the part.

NO CHANGES

The quick way to get rid of embedded program changes in Cubase is to select the part by clicking on it, then choose Delete Cont Data from the Functions menu. This may not be the best way, though - other controller information embedded in the part, such as pitch wheel data, will also be lost.

The only way to remove the undesired program changes without affecting other data is to use List Edit. If you choose List Edit from the Edit menu with the offending part selected, a list of all the MIDI events in that part is displayed. Scroll though the events until you find the desired program change event, click on it and then press [Backspace] on your Atari

keyboard. Once all the embedded program change events have been deleted, your settings in the Track Info column will take full effect.

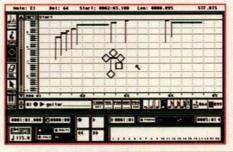
ALL CHANGE

Because data entered in the Track Info column is only meant to be used during composition, it is necessary to embed this data when your sequence is completed. The easiest way to do this is to use the Freeze PP option in the Functions menu. This embeds all the data in the Track Info column into your track.

As you do this, you will notice that all the values disappear from the Track Info column, and you will now find these events in the event list for each part. This method puts program changes right at the start of a part.

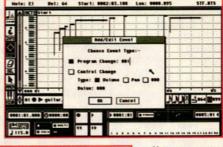
If you want to place them in the middle of a part, as Bob does, you will need to add the program change to the event list directly in List Edit (see the walk-through above). Note, though, that Program Change events aren't instantaneous, so it is better to place your program change at a point where the instrument is not playing to make sure that the patch is changed in time. stf

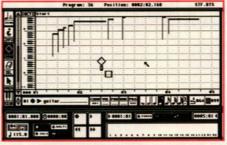
PROGRAM CHANGES IN BREAKTHRU



Breakthru's Diamond Drag editing makes adding program changes simplicity itself. In Edit mode, click the mouse on the grid and then click in the 'square' of your new event. Choose Cont to transform your new object into a Controller event

Now all you have to do is click on the Program Change box and enter the new patch number. The new program change is installed on to the grid when you click on OK. This number can be changed at any time.





3 Change event looks like this. You Your new program can slide it back and forth to any position in your sequence.

Breakthru's controller data deleting system is actually better than Cubase's, because you can opt to delete only program change data, instead of the



ANY QUESTIONS?

Please send your MIDI and music-related questions to: The Score, ST FORMAT, 30 Monmouth St, Bath BA1 2BW, or e-mail them to: andy@adlib.co.uk.

Don't forget to state your full name and your town when sending questions by e-mail, just so we know who you are.

Reader offers

HOME ACCOUNTS 2

We described this as "probably the best home accounts package ever for the Atari ST." It

provides all you need to look after your spending and income, from credit card accounts to cash withdrawals.

You can even display your financial state with a variety of

charts. At a whopping 60% off the original price, you're boosting your finances just by buying it!

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GOLDEN IMAGE This tasty

pad doubles as a mouse mat when you aren't using it with your hand scanner. It's easy to set up - just slide the image under the plastic top, where it's held firmly in place while you run your hand scanner over it with the help of the slide rule.

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Customer Services is on \$\infty\$ 01225 822510

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Written by ST FORMAT's very own Clive Parker, this little volume is full of useful hints and tricks. Discover how your Atari works. improve its performance, and read about all the best ST software and hardware.

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Disk: Contact, Bang and Blast Man Inside: Business applications; game programming: recovering deleted files Reviewed: Reno CD-ROM drive, E-Copy



Disk: Marcel, Bio Hazard 2 demo Inside: Word processing; file transfer; game programming Reviewed: Zero-X CD-ROM drive, HD Driver Tutorial: UDO



Disk: Zero-X demo, Snoball in Hell Inside: Pump up your ST; Sound sampling Reviewed: MagiC 4, NVDI 4 ExtenDOS Pro Tutorial: Positive Image



Disk: CAB, Zaptastic, The Espers Inside: The Internet; Desktops; Text adventures Reviewed: Vision, EZ Drive PageStream 2.2 SE, Power Drive Rally

ROBINSON'S REQUIEM

16/32 SYSTEMS

You've crashlanded on a deadly moon and you must attempt to survive and escape with little more than your wits. The ST version scored a well deserved 89% when it was reviewed in issue 64. We concluded that it features "gob-smacking graphics, brilliant medical gameplay and a quietly intense pace." You haven't died or lost an arm until you've played this!



Descr'n: Robinson's Requiem

RRP: £24

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TEAM: NEW **SEASON EDITION** IMPACT SOFTWARE Team is a game no serious footie fan should be without. Behind the attractive graphics and atmospheric sound effects is a football simulation that's realistic and exciting. Team gives you loads of options, too you can select the pitch conditions, your

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team's tactics and even how blind the

ref is. Simply the finest footie game ever.

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All STs. 1Mb required

JIMMY WHITE'S WHIRLWIND **SNOOKER**

VIRGIN

Looking for a snooker game with a difference? This is the one for you. A stunning real-world physics engine makes

this a simulation with all the angles covered.

Runs on all STs

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LURE OF THE **TEMPTRESS**

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Brain-frying puzzles, clever character interaction, sumptuous graphics and a healthy dollop of humour mark Lure of the Temptress as one of the finest graphical adventures of all time. Quiz local inhabitants, eavesdrop on the locals in ye olde tavern and save the village of Turndale from the nasty Skorl. Can you

> resist the temptation?

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Set yourself up as a deity in the best god game ever, then battle for religious

> supremacy by wiping out your opponent's worshippers with acts of god. Populous 2 has great graphics, crisp sound and 500 levels. It scored a massive 95% in issue 30.

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US GOLD

Street Fighter 2 is the de facto beat-'em-up, and possibly the most popular computer game ever created. With eight difficulty levels, one- and two-player

options and a dazzling array of 'electrifying' special moves, it's certainly a game to be reckoned with. Get your copy now!

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ATARI 520STFM 1Mb Ram, Star printer mouse, joystick, trackball, sampling cartridge, 100s of disks, ST FORMAT 24-77, bargain £150, 01242 692365.

Cheap Atari ST Games! Substation, Cannon Fodder, Street Fighter 1 and 2, £5 each, plus many more. Phone Mark 01423 863838 or write for list to: 16, Manor Drive, Knaresborough HG5 0AX,

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Link 2 + ICD Software £35. Cubase Lite £35. Compo Gold font pack of 100 speedo fonts £25. Tel. 01202 876488.

520STFM, mouse, joystick, leads and manual boxed, some games, PD, Cover Disks & Quantum Paint. Call Andy 0181 521 1027, £50 – no offers.

4Mb STE Family Curriculum Pack, high density internal plus external disk drives. 14" mono monitor, excellent condition, Timeworks, First Word, Concerto, Multi Print, Imagecopy etc. £280. Tel. 01202 876488 (Dorset).

I have 21 floppy disks of Calamus fonts, 370 fonts in all. ONLY £1.25 per disk. Write for list of printed fonts to: 15, Darwin Close, Walsgrave, Coventry CV2 2BZ.

Offers wanted for a STFM with no PSU or drive. Also wish to swap PD. etc. Please send your lists etc. to Karl, 10, Demam House, Cavell Way, Sittingbourne, Kent ME10 1BP.

For Sale Atari Jaguar + 6 games, Cybermorph, Tempest 2000, Doom, AVP, Theme Park and Iron Soldier plus one controller. All boxed – Make an offer. Tel 01846 570417.

Power External Drive, 1/2 Mb Simms for Marpet board to make 1MB. £40 or swap for any ST hardware (i.e. scanner TOS 2.06). Call Paul 01708 348833.

Secondhand games, magazines, upgrades, PD games etc. for sale for your Atari. Just ring for a list of the best prices around. 01874 624807.

Atari STE computer, 1Mb memory, Epson FX80 printer, games, ST-FORMAT magazines with cover disks, mouse and all leads. VGC £120. 01254 696274.

Atari Computer 800 48K RAM with tape drive, games on cassette and cartridge. Books and Atari user mags. £40 ono. 01254 696274.

Atari 1040STE, external drive, colour monitor, loads of magazines, software, books etc. Too much to list. Send SAE for list to: 62, Fargo Road, Larkhill, Salisbury, Wilts, SP4 BLL. May split – please state your requirements.

UPGRADE 1Mb Memory for 520STE, just £6. Tel 0171 738 3879.

Whether you're buying, selling, swapping or just making friends, the Reader Ads page is a busy marketplace packed with bargains.

WANTED

Wanted: Mega Apocalypse, Savage, Stormlord, Morpheus, Intensity and Microrhythm for Commodore 64. Will pay generously. 01222 793144.

ST game Deutros, must be boxed, original disks, manual. Willing to pay handsomely if in genuine good condition. Tel Mark 0161 224 6851 (after 5pm).

Wanted – Graphic artist to develop STOS game. Write to Cristian Rinaldi, 5, Michele 46, 50018 Scandicci (F1), Italy.

Do you have a bug free copy of Poolsmaster v2? Mine's full of bugs. Unable to get help. Tel 0181 482 7483 Ask for Ron.

Wanted desperately – Disk A of Robinsons Requiem. Send SAE to A. Fitton, 42 Cecil Road, Dronfield S18 6GU. I will pay good money.

Atari high resolution black and white monitor, any make considered. Cash waiting, can collect. May consider computer setup. Please phone 01884 257487.

Dr. T's X-OR. Tel 0117 9659 211 any time.

Desperately wanted! Noddy's Playtime for my 5 year old niece. I will pay a good price for the full program. Please phone Daniel on 0956 441338. Thanks.

Cruise for a Corpse for Atari STE. Tel. Jeff 0181 560 5888.

Monkey Island 2, Microprose Golf., Good prices paid. Tel. Chris 0151 200.6369 after 6pm.

Hints, tips or solution for Hook, desperate. Can anybody help? Tel. Chris 0151 200 6369 after 6pm.

Wanted – Street Fighter 2 game disks as my disk 1 is damaged. Can anyone help? Mr. T. Wilson, 19, Steele Cresc. Balloch, Dunbartonshire G83 8AP.

F1 by Domark (full race version). Super Stario Land, Lure of the Temptress, any MIDI files, Format 0 to 1, conversion software disks. 01639 642014.

Wanted – Rorkes Drift, F15 II, A320 Falcon Mission Disk II, Carrier Command Covert Action. 01846 670417.

Zool Codewheel (or information) for Zool game. Atari ST version. Tel 01661 853949.

Wanted RAM parts, Railroad Tycoon, Ancient Battles and information on New Civilization 2 for Atari 1040STE. Phone Antony 01206 391653.

SWAPS

Loads of ST, Spectrum and possibly other games for sale, all originals, £1–8, new stuff arriving regularly. Tel Dave: 0181 6760500 for details. Will also swap.

Wanted Hi Res Mono Monitor for my ST. Will swap for 130 ST games (all boxed originals). Phone Steve 0191 477 0912.

Scambio Giochi E programmi per Atari STE. Scrivere a Cristian Rinaldi – via 5, Michele 46 – 50018 Scandicci (F1),

1st Division Manager, Killing Game Show and others, swap or sell cheap. Tel. 01444 232069.

Spectrum and Atari ST original games for sale, or preferably swap. For example Captive, Loom, Elvira + many more. Phone Dave on 0181 6760500 right now!

MESSAGES

ST contacts wanted to swap PD and shareware. Write to: 86 Huntingdon Gardens, Colley Lane, Halesowen, West Midlands. Hello to Chaos PD, B Shepherd, Jake, Geoff and J Miller!

DEAN DEALTRY: Contact Lloyd Hannis immediately!! (I lost your address – sorry!).

Coventry City are the best team in the Premiership! After spending 15 million, we'll be in Europe pretty soon. Dublin, Ndlovu, Wherlan, Salako and co. Anybody think otherwise?

Do you want ST magazines, games, all at unbelievable prices! Magazines are just £2.50 each and games go from just £5!! – All boxed. Write for list.

USER GROUPS

Atari Wrinklies Club, 60,Crumpsall St, Abbey Wood, London SE2 OLR. Email: jhornby@cix.compulink.co.uk.

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SI

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1. Before you send any money, ring the supplier to make sure the item you require is in stock. Ask questions about the company's policy on delivery and returns of faulty equipment. Make sure there are no hidden costs such as postage and packaging. Find out when you can realistically expect to receive your goods.

2. Make sure you read the small print on ads.
3. Beware of companies that den't include their address on their adverts, or don't answer or return your calls.

4. By far the best method of payment is by credit card. If you're ordering goods that come to more than £100 in total value, you are legally entitled to claim compensation from some credit companies if the retailer goes bust. Check your credit card company's policy. You can also try to get extra insurance in advance.

8. If you're not paying by credit card, pay by cheque. Never send cash, and avoid postal orders.
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7. If you are sending a cheque keep a note of the cheque number, the date and the exact value. Make sure you know the name and some details of the male order company.

and the exact value. Make sure you know the name and some details of the mail order company.

8. When you receive your goods, check them carefully. If anything is missing or faulty, contact the supplier immediately.

9. Order from the most recent issue of ST FORMAT.

10. If a problem does arise, contact the supplier first. Calmly and politely tell them your problem. Most problems turn out to be minor hitches or misunderstandings, which can easily be resolved. If you think you have a geruine grievance, confact your local Trading Standards Officer. The number is in the phone book.

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The 'cheats never prosper' introduction has been arbitrarily discontinued. Simon Forrester hangs his head and carries on regardless.

Gamesbusters

Ishar 3

ike Kirwan and David Chong provide us with the second installment of our Ishar solution, flitting back and forth through time with, well, not all that much ease.

Last month, we left you heading towards Mather's house, collecting as much food and armour as you could on the way. When you arrive outside the house, you should be able to find a scroll with a message from his servant, Erkh Moltus.

If you go to the Silver Wolf Inn, north of the house, and

listen, you should see Erkh arrive and ask for a meal. Click on Yes and buy him a meal, then listen again. He'll offer to take you back to Mather's house, so agree and he'll take you there.

Mather will order you to leave, but you should keep refusing until he shouts "OUT!!" At this point, give him the playing cards that Typhus gave you. Agree to wait when he asks you to, and a time gate will soon appear. If you don't have supplies, you should go back to the town to find some, but if you had the sense to stock up before you came, you can click on the time gate to go through.

Lawks a lummy, that'll be the marvel of time travel, then. Sorry, that should be ymmul a skwal (Oh please – Nick).

You've been thrown backwards into the past, and find

You pays your money and you takes your choice. This street map is obviously in the single copper coin price bracket.



A drinking establishment. You've been charged with a highly important quest and you want to go off for a night out with the lads?



yourself standing in a forest.

To the south you'll find some black mushrooms which are well worth picking up, because they can be sold in the town when you get there.

If you go back to the north and follow the relatively clear forest paths to the east, you'll come across a way through the bushes (you may have to do a bit of searching) which is plagued by dangerous insects – kill them before they kill you. Your next obstacle is a bear which is a tad tougher to kill than the insects, what with it being a bear and all.

You survived? Oh well. Take a few paces further east, then turn south and head along the rough path in the ground. When you get to the end of the path, turn east and enter the enclosed area, to the far east of which is a racoon sitting on a rock. He hands you a scroll, too. Read it, then retrace your steps right back to the time gate (killing any of the insects you left alive). When you get to the place you appeared at and can't find the gate, don't panic - it's a little further to the northwest.

You should find yourself back, safe and sound, in Mather's house. If you give him the scroll, he'll provide you with a bit of a monologue, a key and the recipe for a potion – 2 x salamander oil, 2 x dried mistletoe, 1 x rat brain, and 1 x kelonia powder. Classic hubble bubble stuff, there. Leave quickly.

Take a look at your map. There's an arrow to the south of the centre which points to a house – go along to it and wander in. You'll find a magic flask and a necklace on the chair, and you should take them both. Put the necklace on one of your team members before heading over to the centre of the map, the poor town.

Make your way to the street that runs along the southern wall of the rich town. You should come across an armourer's (stock up), a potion shop (where you'll find the first three ingredients), and a tavern called the Big Troffer. Go in wearing the necklace and listen. You'll be presented with the kelonia powder.



Wearing rose-tinted sunglasses isn't going to make your quest any easier you know

Remember the racoon in the past? Go back to Mather's house, through the time gate, through the bushes and down the path, into the clearing and to the rock at the far east. Mix the potion in its correct measures and give it to the racoon. This transforms him into Green Dahilim, the wizard. He gives you a talisman before

HER

vanishing, at which point you have to make your way all the way back to the rich town.

Go past the first set of guards, take the first turn to the east and then head to the south. In the southern area of the rich town you'll find a theatre. If you enter at dusk, you'll be greeted by Gulnar Dahilim.

Give him the talisman and he'll take you to another time gate that's only open between two and three o'clock. Step through, and you'll find yourself in the swamps of the

...where we'll leave you fighting for your life until next month, when we go leopard hunting, and travelling far into the future. What japes, eh?

EVOLUTION DINO DUDES

It's with mixed emotion that I can announce, exclusively to ST FORMAT readers, that Mr A Marsh, of Lancashire, is having marital problems. Fear not: he remains very happily married, but his dearly beloved is tearing her hair out over level 51 of this highly rated Jaguar game. If anyone can provide either a code for level 52 or a solution to the offending stage itself, we can restore Mrs Marsh to her usual stable condition.

Indeed, 'A' is so eager to find an answer he has provided every password from level two onwards, stopping, of course, at the Big Problem. Here we go, then:

- Liberty Island
- 3 Stone Wall
- G Men
- 5 Wild West
- Lemon Entry
- **Wagon Wheel**
- Oil Drum
- **Moon Orbit**
- 10 Hard Rock
- Trip And Fall 11 12
- Alarm Clock 13 **Big Country**
- **Hog Tied**
- 15 Can Can
- 16 Cute Mouse

- Spark Plug
- **Pony Express** 18
- 19 **Padded Cell**
- Log Plume 20
- 21 Canvas Sail
- Golden Era 22
- 23 Wide Seat 24 **Bad Karma**
- 25 Crash Barrier
- Lime Glass 26
- 27 Surfs Up
- 28 **Penal Colony**
- **Relief Art** 29
- 30 **Tribal Dance**
- 31 Soda Fountain
- 32 Parking Space
- Pizza Dude 33 **Crow Flies**
- 35 **Tiled Roof**
- Slate Missing 36
- 37 Opening Time
- Inner Peace
- 39 **Bad Dog**
- 40 Sour Belly
- 41 Large Mug
- 42 Half A Bet
- 43 Sing Sing 44 Brown Cow
- 45 Iron Horse
- 46 White Whale
- 47 **Box Office**
- 48 Corny Fur
- Atom Cat 49
- 50 Free Wheeling
- **Bush Fire**

			* #= 11	
aul Strugnell recently bought the free- ware version of HERO,		His gun recharged, our man in resists the urge to electrocute		
as come up with a cheat	07	3	\RSRCH\	
enables you to skip	08	3	\STORE\	

09

10

27

28

9

10

\BIO\

\RSRCH\

3

4

\BIO\

\RSRCH\

recently ware ve and has come u which enables you to skip through the levels. To make your time as easy as possible, though, only use this cheat on a backup copy of the game - it involves altering the disk, and any mistakes could prove fatal. You'll need a text editor

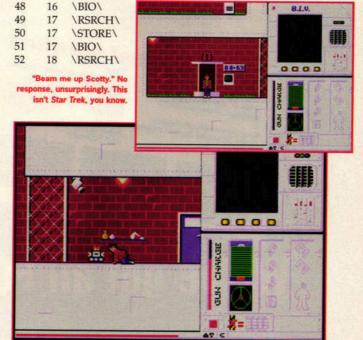
that copes with straight ASCII, such as the excellent Protext. If you use the program to open up the SAVED.DAT file on the first disk, you'll find that the first line of the file contains a number (preceded by a space very important, that) and the second line contains either RSRCH, STORE or BIO, surrounded by backslashes (\). These are the things you're going to change, depending on the level you want to get to. Remember - leave that space

		the number, foll
Level	No	String
01	1	\RSRCH\
02	1	\STORE\
03	1	\BIO\
04	2	\RSRCH\
05	2	\STORE\
06	2	/BIO/

10	-	INSIGHT
11	4	\STORE\
12	4	\BIO\
13	5	\RSRCH\
14	5	\STORE\
15	5	\BIO\
16	6	\RSRCH\
17	6	\STORE\
18	6	\BIO\
19	7	\RSRCH\
20	7	\STORE\
21	7	\BIO\
22	8	\RSRCH\
23	8	\STORE\
24	8	\BIO\
25	9	\RSRCH\
26	9	\STORE\

29	10	\STORE\
30	10	\BIO\
31	11	\RSRCH\
32	11	\STORE\
33	11	\BIO\
34	12	\RSRCH\
35	12	\STORE\
36	12	\BIO\
37	13	\RSRCH\
38	13	\STORE\

39	13	\BIO\	53	18	\STORE\
40	14	\RSRCH\	54	18	\BIO\
41	14	\STORE\	55	19	\RSRCH\
42	14	\BIO\	56	19	\STORE\
43	15	\RSRCH\	57	19	\BIO\
44	15	\STORE\	58	20	\RSRCH\
45	15	\BIO\	59	20	\STORE\
46	16	\RSRCH\	60	20	\BIO\
47	16	\STORE\			



"Quiet! I'm playing hide a her a packet of sweets." nd seek with my friend, and if she finds me I've got to buy



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Feedback

Nick Peers casts an eye over the latest batch of mail known to the ST world only as Feedback.

That's better



I would like to praise ST FORMAT for its recent articles

on the WWW and HTML coding which I found to be both informative and interesting. However, some of us are not on the Internet and so cannot contact you via e-mail and your WWW site. Do you have a standard modem line through which we can contact you, or are we just left with Royal Mail?

I also liked the upgrade article. However, although you mention that hardware upgrades require rehousing of our machines there is no mention of the power supply. It can only supply so much current and will fail if demand from these add-ons exceeds the supply.

Stephen Moss, Cambridge

PIXEL PAINTING

of excellent (if gory) pictures, and we have a

This month's winner hails all the way from Gdansk in

Poland. Pawel Kaznowski sent us a disk stuffed full

stf: Thank you for your comments, Stephen. Unfortunately, my modem is refusing to co-operate with the one which runs Ad.Lib (0191 3702659), the official ST FORMAT BBS. However, you could try one of the new Internet cafés which are springing up all over the place and contact us from there.

Your comments concerning the power supply are thankfully largely redundant. As it stands, you can safely run (with the correct add-ons) a second disk drive, hard drive and monitor through your ST's single power supply. However, you don't necessarily need to do this. My ST at home, for example, is housed in a Desktopper replacement case (contact System Solutions on ≈ 0181 6933355 for details). It only has a second disk drive attached to the main power supply - the hard drive and monitor both run from their own supplies.

Fight back



The news in your June issue of Compo's

demise should shock
every good Atarian into
leaping to the ST's support. Having used Write
On since it appeared on
issue 33's Cover Disk, I
can testify to what a class
piece of software it is.
Please let it, and its big
brother That's Write, be saved
from an undeserved end.

But it is on the hardware front that the battle will surely be won or lost. At present, the only alternative to second-hand machines is the Amiga 1200. Isn't there someone out there who can design an Atari-compatible machine with a bottom-end 680x0 processor? One which, unlike the GeSoft Eagle and Medusa



Cavan Scott and Nick Peers. Would you buy a used Atari from these people? More fool you, then.

T40, great machines as they undoubtedly are, can be afforded by the home user? Barry Gowland, Milton Keynes

stf: First, although the collapse of Compo UK is a big blow to us all, other companies are moving swiftly to take up distribution of Compo's software range. Titan already has the rights to Gribnif's software range (see STF 84).

Other products, including Compo Germany's products, should be snapped up soon.

The problem with designing a new machine for the Atari community is that it could never hope to compete with secondhand STs. These can be bought for very low prices, often with extra hardware and software thrown in. If your ST is coming to the end of its life, keep an eye on the Reader Ads page – there are plenty of bargains to be had!

Ads page – the

selection here for you to admire

Pawel created them with Deluxe Paint

from Cover Disk 77 and wins himself £25







A thought



I have been a staunch Atari supporter for many years, but it would

appear that other machines have taken over my life. I am typing this on a PC. I now play games on a Sony Playstation. I haven't used my ST in months and the Jaguar is a dust trap.

The only thing that the PC doesn't have is a decent magazine. I still find *ST FORMAT* more interesting than any PC magazine I can find. Maybe this is because Atari

NEXT JYJO INTE

Clone zone We profile the Atari clones of the future and ask of computers can compete with today's technology.

Video titling

With the help of exclusive Cover Disk software, we show you how to add titling effects to your movies.



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SPECCY HEAVEN

have come to the rescue of ex-Your Sinclair reader John Cheseldine (STF 83). First, Michael Escritt of Batley writes: "Spectrum Monthly is a new Spectrum fanzine written with former Your Sinclair readers in mind. I have been writing Speccy magazines for almost two years now. It costs £1.75 per issue."

Second, Nicholas Mills of Oxford points out that "one of the oldest and most reliable Spectrum groups, Format, publishes a monthly magazine. It can be contacted at 34 Bourton Road, Gloucester, GL4 OLE." Thanks to both for the information about that wonderful old machine (it brings back memories), which we've duly passed on to John.

computers have character, whereas PCs are just bland. PC FORMAT isn't a patch on ST FORMAT - any ideas?

Anyway, keep up the good work. I'll keep my subscription going for as long as you are still printing the magazine, and hopefully my ST will be in use again. Nic King, via e-mail

stf: Thanks for the comments Nic - you're obviously an advocate of the content over the size argument! I still think the ST can do most of the things a PC can. That's why I haven't upgraded from my ST, anyway.

If you want a PC magazine which is similar to ST FORMAT, try PC Answers. The fact our very own Mary writes for it is just a coincidence - I believe it is the PC magazine most similar to ST FORMAT (ask the editor, Sue Grant – I told her this five times in as many minutes during a recent trip to the pub).

'Expert' witness



I have recently purchased a secondhand STE, and I have read about

the Jaguar, Atari's latest console. The games look fabulous but the machine is far too expensive at £220. I was wondering if I could put the games into my STE's cartridge port and play them using a control pad.

My friend has an Amiga CD32 and reckons it is better than the Jaguar. He is really annoying me!

Richard Clarke, Devon

PS: I think your magazine is great because it contains stuff for the beginners and technical stuff for the experts like us.

stf: Unfortunately you can't run Jaguar games on an STE, Richard. The hardware is completely different. However, the

good news is that you can pick up Jaguars for ridiculously low prices these days - around a third of the price you've quoted here.

I know someone who has a CD32 and loves it to death, but you can't do half as much with it as you can with an ST. It doesn't even enable you to painfully transcribe entire Queen songs into MIDI, for example.

A few questions

I am writing to say how much



I like your magazine and I hope you will continue supporting the ST. I have a few questions to ask.

1 Is there any program which will play the PC's AVI files, and how much will it cost? 2 The program UDO 4 from Cover Disk 82 is meant to work on a 520ST, but when I try to run it it says I haven't enough memory. What's wrong? 3 When I upgrade to 1Mb I am thinking of getting a Zip drive. Do I need ICD's Link 2 to connect the drive to my STFM?

Richard Lancett. Worcestershire

stf: Taking your questions in turn: 1 Ask for AVI-Play from any good PD library - it will only cost you the price of a disk. 2 Unfortunately, UDO requires 1Mb of memory to run, something that isn't mentioned in the documentation. Sorry about that - but it is another good reason for upgrading! 3 Yes, you need the ICD Link (or a similar interface). See ST Answers for more details.

Send your letters to the editor, Nick Peers, at: Feedback, ST FORMAT, Future Publishing, 30 Monmouth St, Bath, Avon, BA1 2BW or e-mail: npeers@ futurenet.co.uk. You can also reach him via our Web site at: http://www.futurenet.co.uk. Note: letters may be edited for length and clarity.

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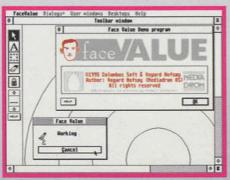
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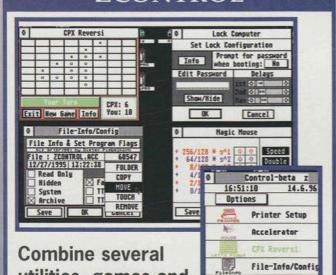
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