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DTP experts this month show you how to join the publishing tycoons easily and cheaply with your ST.

See Page 18

into print, and how the

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from your dealer, Page 26

Ideal storage? We introduce you to Flootical. with hard disk capacity. Page 69

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Contents

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For over six years Aton! ST User has been the leading magazine for ST enthusiasts. As a key member of the Europeess magazine group, Aton! ST User promises to inform, educate and entertain its readers each month with the most dedicated coverage of the ST available.

Dear Reader.

Welcome to the latest issue of Atari ST User. Britain's most informative magazine for every ST owner. This month we have two main themes - desktop publishing and hardware buying.

For anybody about to set up a DTP system or upgrade an existing one, our guide to software and hardware will be invaluable.

Highlighting certain needs - such as producing newsletters - it tells you what equipment is needed and the amount of memory your computer requires to do the job effectively.

And publishers who want colour will enjoy to our in-depth feature about the packages which enable colour desktop publishing to be carried out on the ST, while

those planning to extend their ST in the next few months should turn to the hardware buyers quide - a comprehensive list of most ST hardware.



Accompanying features detail what you need to look for when buying and teach you how to get a good deal from your local computer shop.

And, of course, there are all the normal regulars - a packed CoverDisk, the latest news, Aspects pages, public domain - in fact, everything you need to get the most from your ST.

> John Butters Editor

The software and hardware you need to

turn your ST into a printing press, plus a look at colour DTP

ST makes the news



Aspects

Midi and music.101 No serious ST musician

can afford to ignore the best music pages in the husiness Emulation 103

The column that exploits the ST's chameleon-like tendenclas to the full

Communications.... 105 The world of moderns and

bulletin boards - mass communication for the 90s

Producing top-quality newsletters and posters is easy with your ST and this column

Business 109 Improve the efficiency of your business by learning to use software to its greatest potential.







Don't miss our GREAT offers for subscribers on page 98

specials

26 Buvers' brief Hardware jargon explained and advice on choosing the best products for you



40 Getting a good deal

Why pay the top price for your computer equipment? Follow our tips and you'll save pounds

Midistudio tutorial

We get to grips with the edit window the most complex part of the package given away on September's CoverDisk



50 Moving on up Improve your ST at the lowest prices

through our special upgrade service

Mardware quide We list the products, suppliers and prices of ST hardware that you can buy

reviews

56 Concerto

Cheap doesn't always mean nasty as we found out when trying Microdeal's latest sequencer



60 Floptical

Combining hard drive capacity with floppy disk convenience is Floptical, the new way to store your valuable data

regulars

News

Falcon arrives in Britain, new ST bundles and the rest of the very latest industry news

Write Now

The pages you write - this month ST vs PC software conversion and a whole lot more

Assembler Getting the balls under control in the



42 Public Sector

Two pages of the very latest public domain and shareware programs from the bulletin boards and libraries

Advice Service

Where you get to quiz our resident technical ace on anything, well er. technical



Q7 Competition 1

Over a £1,000 worth of Home Accounts 2 software is up for grabs in this easy to enter competition



100 Competition 2

Win one of 20 copies of this latest music software from Microdeal

The CoverDisk



Try MiNT - the multitasking operating system that Atari chose to develop for Falcon's MultiTOS

PLUS:

- Cold Revenge a brilliant shoot-'em-up where you can link STs and battle against your friends
- Balls an amazing puzzle game requiring forward planning and quick thinking
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- QuickCIS guaranteed to get you exploring the massive CompuServe on-line service in no time at all
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The DISK starts on page 12



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Exfile

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

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

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

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

Lapcat prices:

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

With software for one computer £40

Software for extra computers £10 EACH





Arnor Ltd (STU), 611 Lincoln Road, Peterborough PE1 3HA. Tel: (0733) 68909 Fax (0733) 67299



Falcon lands in Britain

FALCON was officially launched in Britain at the European Computer Trade Show held in London recently, and first machines are due to be available to ST enthusiasts within weeks.

Atari predict 15,000 Falcons will be sold in the UK between now and the end of the year, and the launch price has been confirmed by the UK division as £499 for a one megabyte machine.

Another model will be sold with four megabytes of memory and a 65Mb hard disk drive. It will cost £899.

Before Falcon becomes a mass market

product next March, its case will be redesigned to give a totally new appearance. Atari then hope to sell a further 100,000 Falcons during 1993. Meanwhile, rumours from well

placed sources say that first Falcons already available in mainland Europe do not have a multitasking operating system or hard disk interface

Atari's technical manager Alister Boden said: "developers' machines were not supplied with a multitasking system. It's my understanding that production models will be multitasking."



Falcon finally lands in London

Losses continue for Atari

ATARI Corporation made a loss of \$39.8 million in its second quarter of 1992, bringing the firm's losses for the first six months of the year to \$53.6 mil-

Officials in California say the latest loss includes charges of \$34.1 million. for the write-down of inventory and

reorganisation of the business But second quarter sales also slumped, blamed by Atari on the weak economy and intense pressure in the video games market. They fell to \$23.3 million from \$49.2 million

in the same period last year However, the manufacturer claim they have a strong balance sheet more than \$60 million in cash, and

will be shipping Falcon this winter.

Plenty from the club

THERE'S been plenty of activity at the ST Club (0602 410241) this month, with the firm announcing several new products. Warp 9 is an accelerator for "dra-

matically" increasing the speed of screen output by intercepting TOS routines and handling them with much faster assembley language code. Also included are a configurable

mouse accelerator. Desktop pictures. custom screen fonts and files. Compatible with all programs it costs £24.95

Identical to document processor Redacteur 3 but without certain modules is Redacteur Lite. The £79 package is supplied without the Sigma Equation Editor, AZtheque Database, Font Editor, Dictionary Editor, and French Dictionary.

Type Write Clip Art is a series of 300 dpi clip art. Containing 100 IMG files on four disks, each of the three sets are priced £8.95.

Family Curriculum drops under £300

AS PREDICTED in last month's ST User, Atari have slashed the cost of their two mass market STs, bringing the 1040STE's recommended price tag to under £300 and the 520STF to £249.99.

As part of the move to make their machines more competitive, Atari have also packed new software in their bundles. Family Curriculum II contains a 1040STE and several packages including Play & Learn, Junior School, and GCSF. Revision

A family module features Hyperpaint and ANI ST, a colour paint package and animation software. Music Maker II for music creation, programming language FirST Basic,

and First Word wordprocessor. Cost, £299.99. Discovery Xtra, the entry-level STE pack based around a been revamped. Games sold alongside the computer are Final Fight, 9 Lives, Robot Monsters and Sim City.

520STE, has also

Starter programs sold alongside the machine are Neochrome, FirST Basic, and ST Tour, a tutorial to help

now sells for £249.99

newcomers become familiar with the ST's Desktop. Two programs appear for the first time: wordprocessor First Word, and ANI ST, which enables users to animate their Neochrome pictures. Price, £249.99.



Publishers join forces

TIMEWORKS Publisher users can now join a user group dedicated to their desktop publishing software. Simply called Timeworks User Group, members receive a quarterly magazine, product updates and newsletters, contact with other users, advice, and software discounts.

Membership costs £23.50 each year, but the first 50 members will be offered their next subscription for £17.63. For more information call 0708 762861.

Subscribers hit by virus

THE magazine that assured its readers that it protected them from cover disk viruses last month distributed the Ghost virus to "several thousand" subscribers

With the potential of wrecking valuable software, the most common ST virus lay low on a disk given away with October's issue of ST Format. Discovered just before thousands of

copies were due to be sent to Britain's newsagents, publisher Future Publishing ordered the infected disk to be re-duplicated without the virus.

Subscribers were sent a letter of apology from the magazine's editor and a copy of a virus killer to clean their cover disk - it could not repair auto-booting programs such as games.

Virus expert and programmer of top virus killing software Ultimate Virus Killer Richard Karsmakers says: "The Ghost virus is irritating and can actually cause quite a bit of damage.

Although it only manifests itself by inverting the vertical mouse movements, it does not check anything before it copies itself.

"This means that it will easily conv over a program that a game or something else needs to boot itself, resulting in the software in question ceasing to work."

ST Format publisher Stuart Anderton said: "Normally when copies of the magazine arrive back from the printer we check the cover disks for viruses before they are distributed.

"Due to a mistake this time that didn't happen, but we managed to catch it before it got out to the newsstands

"We have tightened up to prevent it happening again."

Any ST Format subscriber with commercial software damaged because of the infected disk should telephone the magazine on 0225 442244.

Languages added to LCL courses

DEMAND for their existing ST courses means LCL are now planning to launch two new programs - Micro English and Micro German.

Micro English is for children over eight years old and takes them from simple spelling and punctuation up to under-

standing and appreciating literature. Spelling is taught by pictures and

"speak and spell" type programs and part of the software is based on games to keep pupils attracted to the package. With the single European market

almost here there has never been a more important time to learn a second language. Micro German takes beginners up to GCSE standard in spoken and written German Targetted at travellers, students,

enthusiasts, and businessmen, it includes a program to generate business letters automatically.

Each package costs £24.99 and runs on any ST. LCL can be contacted on 0491 579345.



LCL speak about two nev language courses for the ST

Games swap shop opens

GAMES players can now revitalise their collection by swapping their unwanted titles with other ST owners through a new Berkshire firm.

All games sent must be originals and supplied with full documentation. It costs £16 to enrol and each exchange costs £2.75.

For more information write to The Software Exchange, PO Box 19, Newbury, Berkshire RG13 1XU. Telephone 0635 33680

C'est ADI

ADI FRENCH is the latest in a series

Europress Software (0625 859333),

Designed to cater for pupils in

the first and second years in sec-

ondary education, two versions of

the software are available, one for

11 to 12-year-olds and the other for

The space character ADI aims to

of educational programs from

makers of the top-selling Fun

Monitor dips below £200

PHILIPS have cut the cost of their CM8833/II colour monitor to a new recommended price of £199.99. The firm say the £30 drop is

aimed as an incentive for ST users to upgrade from a shared television to a dedicated monitor.

The monitor can be bought from most computer retailers.

Central point eases buying and selling

A SERVICE just set up aims to help people wanting to buy or sell second-hand computer equipment by providing a central contact point. National Second-hand Computer Exchange Service will take a list of hardware and software for sale and list it in their books - bought by people looking to buy products for 50p.

Buyers send money to the firm, sellers send equipment, and then the money and equipment are forwarded to their new owners. The cost for selling is £5 per

NSCES are at 8 Apsley Road, Great Yarmouth, Norfolk NR30 2HG. They ask for an sae from anyone requiring more information.

Big system for homes

AIMING to widen the appeal of OS/9, Cumana have slashed the price of their OS/9 68000 Professional Upgrade Kit for private ST users to £99.95 - business users pay £581.63.

The move enables people to buy OS/9 - an operating system used mainly in universities and institutes - at a fraction of the cost of buying similar software on other 68000 and PC machines.

It consists of Sculptor, a fourth generation applications development system offering a combination of fourth generation languages, database, dictionary, and utilities and Stylograph, a wordprocessor with mailmerge and spell checking facili-

Also included are a powerful electronic spreadsheet called Dynacalc, a C compiler, a Basic interactive compiler, a screen editor, and 68000 assembler, debugger and

John Simnett, Cumana's managing

director, believes the package is so attractive that potential users of OS/9 might consider buying an ST in order to take advantage of the offer. Cumana can be telephoned on 0483 503121.

OS/9 within reach of private



PEOPLE who play driving and flying games can now use Freewheel, a new steering wheel controller from Logic 3 (081-902 2211). Available before Christmas it will cost £29.99.

DO YOU KNOW SOMETHING WE DON'T?

Although Atari ST User has scores of 879966. All information supplied

with the aid of jokes, games, and rewards. Complying with national curriculum requirements the packages cost £25.99 each.

entertain children as they learn

12 to 13s.

The 16 bit Breakthrough

At last from Microdeal, the first ever low cost 16 BIT sound sampler for the Atari ST range of computers. Never before has a 16 BIT sampler been available at such a low price. With the superb quality of 16 BIT technology, the completely new hardware cartridge contains 16 BIT Analog to Digital and Digital to Analog convertors. The system can record sound from suitable equipment such as a portable cassette or C.D player or any 'Auxiliary' or "Une" level source. The PHONO output provides a standard "Line" level output for connection to a wide range of sound systems.

As you have come to expect from MICRODEAL and Audio Visual Research. the SOFTWARE provided with the package is packed with the latest features. REPLAY 16 has the latest generation EDITOR, DRUMBEAT, MIDIPLAY software, which have been radically updated and rewritten from the REPLAY PRO / STEREO packages. Just look at these features:

REPLAY 16 EDITOR

The EDITOR program provides the user with the ultimate in power and sophistication, packed with features which appear for the first time on ANY home computer. The fully DESKTOP and WINDOW styled editor allows individual samples to be loaded into the computer and edited separately The program will allow the user to load samples of 8, 12 or 16 BIT formal and freely convert between them. Sampling rates up to 48Khz can be used and the program can re-synthesise samples to practically any other speed.

The REPLAY 16 editor supports many useful editing functions including Cut, Paste, Overlay, Clear, Fill, Hide, Insert, Loop join, Loop, Loop cross-fade, Repeat gap, Volume up / down, Fade in / out, Reverse, Sample, Play, Presample, Monitor, Scope, Load sample (AVR , 85VX / IFF and AIFFI, and Save

The Editor can also perform more advanced forms of editing such as Sample FOURIER analysis using a 128 point 3D FFT, Special effects (including Echo. Multi echo, Flange, Reverb, Room and Hall), Digital Filtering (Band pass, Low pass, High pass, Band stop, Frequency boost). In addition to all these functions the REPLAY 16 editor now comes complete with a SAMPLE TRACK SEQUENCER, which allows you to Rearrange / Remix samples using a SAM-PLE list style editor.

DRUMBEAT 16

DRUMBEAT 16 is a simple to use, full feature Drum machine with one main advantage over a dedicated unit, it is a FULLY re-configurable SAMPLING drum machine. DRUMBEAT 16 can load up to 30 samples into memory, to create a KIT. Samples can be up to I Meg in length, permitting the user to record sections of music and completely RE-MIX them. Patterns of BEATS are arranged on a grid style PATTERN editor . SONGS are then constructed ously, which turn DRUMBEAT 16 into a powerful sample sequencer. DRUMBEAT 16 has full Midi support and can act as a MIDI SLAVE or MIDI MASTER and responds to MIDI START - STOP and SYNC commands

MIDIPLAY 16

MIDIPLAY transforms your ST into a flexible Multivoice MIDI keyboard emulator . Samples can be assigned to any individual note or range of notes in a 9 octave range . MIDIPLAY 16 can play up to 4 VOICE / NOTE polyphonic with 3 levels of velocity sensitivity while in a single voice mode . An advanced sample loop point editor with AUTOLOOP (zero crossing) detection is also incorporated to ease loop point editing . Four separate keyboard layouts can be held in memory at any one time . MIDIPLAY 16 now has SWITCHABLE SOFTWARE FILTERING to reduce sample noise and

FULLY COMPATIBLE WITH BREAKTHRU FROM GAJITS

Not included with this package but fully compatible is BREAKTHRU , from Gajits , a professional quality 32 track midi sequencer with a difference . At REPLAY 16 cartridge to provide a four channel 16 Bit sample output ! BREAKTHRU offers all the editing and arranging facilities you need to pro-duce great music, including Gajits DIAMOND DRAG editing system.

Sample Dump Feature

As if all this was not enough , Replay 16's sample EDITOR supports MIDI SAMPLE DUMP as defined in version 1.0 of the INTERNATIONAL MIDI SPECIFICATION. This very powerful feature allows users of many rack or keyboard mounted samplers to transfer samples between themselves and REPLAY 16 for more advanced and simpler editing . These samples can be tested within REPLAY 16 before sending them back to the remote unit.





The 16 bit sampler for the Atari







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A puzzle game requiring forward planning and auick thinking

Programmed by: Simon Carter

Configuration: all STs. colour only

Filenames: X BALLS.TOS - Selfextracting archive

This excellent and addictive game has you guiding a ball around the screen. By using mirrors to deflect it, you must guide the ball in an effort to clear the screen of all orange pods. Once this is done, you must guide the ball to the exit hole to reach the next level.

Of course things aren't as easy as they sound and some clever planning and fast thinking is required, so that you don't run out of time

There are also various tiles that can affect the ball. There are permanent mirrors, permanent walls, angle rotators, destroyable blocks and random angle turners, all of which can hinder or help you in your efforts in guiding the ball.

There are also various speed accelerators and decreasers and also teleporters. The graphics are very well drawn giving the game a professional look to it. Sound is pretty good too with digitised effects throughout the game

This program is shareware and if you register for the miniscule £5 you will be sent a levels editor for Balls, an extra set of levels, the STOS source code for the game and a couple of other programs, including a Kinetic Line Generator and a 3D Landscape



Guide the ball around the screen, using the deflector mirrors to knock out the orange blocks. Then guide the ball to the exit hole

CoverDisk



This month, we have MiNT, a multitasking operating system extension for the ST, and for gamers there's a multicomputer starship combat game and a exclusive cheat routine to beef up your

characters in Domark's RPG

game, Shadowlands

MINT

An operating system extension for the ST offering multitasking features

Programmed by: Eric R Smith

Configuration: all STs - all resolutions

Filenames: X MINT.TOS - self -extracting archive

Now you can have multitasking capabilities on your ST with this extension to the ST's operating system written by Eric R Smith

The interesting thing about MiNT, which, by the way stands for MiNT is Not TOS, is the fact that it is basically the roots behind the multitasking version of the TOS operating system that may be found on the new and exciting Falcon030 computer.

Apparently, Atari have licensed it and MiNT now stands for MiNT Is Now TOS.

However, it should be noted that Atari's version of MiNT will probably display extra features to those in Eric's version.

MiNT is much like the GDOS program that installs itself

into memory and provides the user with externed features that other programs can take advantage of

It is not a shell program but there are a variety of shell programs in the public domain that take advantage MiNT such as Bash, KSH and TCSH, as well as most other

Once extracted, it should be copied to the Auto folder so that it is installed automatically at boot time.

It is quite complicated and you should read and, if possible, print the extensive documentation that is included with the MiNT files before installing it.

We have also included a collection of MiNT utilities. which includes Mintshell, which provide useful functions and these too have extensive documentation and should be read before use.

The file README.1ST gives details on how to make MiNT work, so load this file first and follow the information contained within it.

So what are you waiting for? Extract the files and get a taste of just what a multitasking system is like.

CoverDisk Hotline HOTLINE NUMBER 0625 859766. 2pm TO 5pm EVERY WEDNESDAY

If you have any other problems with the CoverDisk, our technical editor, Darren Evans, will be available on the Atari ST User CoverDisk Hotline. The Hotline number is only available within the times specified, so don't waste your time trying to ring outside of them...



MiNT running a shell program, accessory and a bulletin board system all at the same time. The GEM Desktop is accessible even while all this is going on

Mistv

21 new command externsions to the extremely popular Stos

Programmed by: Billy Allan and Colin Watt

Configuration: all STs with STOS. most extensions assume lo-res

Filenames: X MISTY.TOS - selfextracting archive

STOS Basic is an extremely popular and powerful computer language, geared towards making games programming

However, some of the commands within STOS are not exactly fast and could do with a little injection of

The two programmers, both STOS

users, noticed this and have decided to release their hard work to all you STOS

users out there The Misty extensions are released as shareware, which means if you use

them in any of your programs, you must register with them You will receive lots more goodies and will be able to release any pro-

grams which incorporate any of the Misty extensions.

There are 21 new commands within

the Misty collection, some are fast graphics commands for copying and testing various parts of the screen and there are also a few for accessing the disk drives and keyboard.

display to get an overall picture of the nosition of enemy Blast your buddles out of the ether in this multi-player

Cold Revenge

An exciting multi-player, multi-computer game of starship combat

Programmed by:

Warren L Greene.

Configuration: all STs - lo-res

(for multi-computer setups you

will require Midi cables which

are available from most dis-

tributors and computer stores)

Filenames: X COLDRY.TOS -

self- extracting archive

When it comes to exciting gameplay, your average computer game which relies on computer controlled opponents is no match for one which has a multi-com-

puter feature No amount of programming can simulate the reactions and strategies of a human opponent and, as such, the

multi-computer game takes on a whole new dimension There's just no substitute for the satis-

faction of outwitting your friend's strategy and blowing his ship to pieces.

Cold Revenge is such a game and is based on the TV science fiction series Star Trek. In it, you and your friends can control the starships of the Federation, the Klingon or the Romulan empires in an attempt to defeat each other. There's also the chance to control a Federation outpost which is based on a nearby planet.

There are various weapons at the disposal of each starship, including phasers, photon torpedoes and disruptors.

Klingon or Romulan starships have the added defensive capability of cloaking their ships. The cloaking device renders the ship invisible to all other ships. Disadvantages of being cloaked are that your ship's protective shields are less effective and you have to de-cloak in order to fire any weapons.

During the game, you have access to five different viewing modes and can give one of a group of orders to your other ships as to whether they should attack or operate independently, or even assume pre set-attack formations

If your ship should sustain damage, you can issue orders to change the repair priority of certain ships systems such as shield, phasers/disruptors and to her systems

There is also a tactical display to allow you to get an overall view of the area of conflict. Up to six players can play against each other by linking their machines via the Midi ports. This requires a Midi cable, which is plugged into the machines to form a network loop. Full instructions are given in the documentation file included with the game

If you do not have access to Midi cables, or indeed any other players with STs, you can still try your luck against the computer by selecting the one-player mode. So extract the file and blow away a few Klingons or Romulans before tea.

Sweet Sixteen

A brilliant value for money Midi sequencer

Sweet Sixteen is a Midi sequencer program for creating music with Midi instruments.

As with the majority of Midi sequencers, Sweet Sixteen is GEMdriven and as such is very easy to operate. Sweet Sixteen operates in three modes - Pattern, Song and Edit. Pattern modes is where all recording takes place.

Programmed by: Rolf Nilson

Configuration: all STs - med or hi-res (requires Midi instrument/s) Filenames: X SWEET.TOS - selfextracting archive

You choose the Tempo, Time Signature and Groove. Groove is how you subdivide the quarter or eight note for various styles of music such as hip hop or funk.

The recording controls are of the familiar "tape transport" style representing the play, record, rewind and fast forward of a normal tape recorder.

Song mode allows you to arrange the patterns that have been recorded in any order and length

There are 32 positions where you can have different transpose values for the pattern and you can also mute

any track. It is also possible to insert and delete various positions. So what are you waiting for?

Copy the archived file to a blank disk, extract it and make music

> Like most quality Midi sequencers, Sweet Sixteen is totally GEM-driven making it easy to use



Single-sided drive users wanting the contents on this month's disk on single-sided disks should send their original CoverDisk and a cheque for £1.50 - payable to Atari ST User - to SSD Service, Atari ST User, Europa House, Adlington Park, Macclesfield SK10 4NP.

QuickCIS

A comms program to simplify the massive CompuServe online information service

CompuServe, a massive information service providing thousands of databases and a mailing service is probably the most complex online service around.

As such, new users will find navigating their way through the

numerous services somewhat confusing,

There are many comms software packages dedicated to logging onto CompuServe, such as the CompuServe Information Manager (CIS) available for many computer systems such as the PC and Macintosh and written by CompuServe themselves.

Programmed by: Jim Ness

Configuration: all STs med or hi-res

Filenames: X QWKCIS.TOS - Self-

extracting file

Programmed by: J E Cosby

Configuration: all STs - lo-res

requires Shadowlands and a

Shadowlands save game disk

Filenames: X SHADOW.TOS -

self-extracting archive

Unfortunately, there is no such software available from CompuServe for the ST, even though there is substantial support for it in the form of dedicated forums and databases on the CompuServe system.

Jim Ness has produced QuickCIS, a very good communications package which makes navigating your way through CompuServe much easier.



Shadow-Fix

Create superheroes out of your wimpy Shadowlands characters with this blatant cheat utility

Has Shadowlands' denizens gotten the better of you? Have your characters had their butts kicked every time you wander into the underground labyrinths?

Well fret no more because, courtesy of I E Cosby and ST User, you can now turn your characters into mighty butt-

kicking superheroes.

Just take your save game disk, load Shadow-Fix and follow the on-screen instructions. In no time at all, your party will have statistics that make them look as though they have gone through three boxes of Shredded Wheat each.

You will be able to get your own back on those denizens that usually wipe you out during play.

Watch as all inhabitants gasp (then run away in fear) at the mightiness of your characters. Revenge at last is here.

Shadow-Fix achieves this miraculous transformation of your characters by directly altering your save game disk, so if you are suddenly overcome by guilt at cheating and you want to play the game honestly, you had better make a backup of your save game disk as, once transformed, the effects are irreversible.

Problems with your CoverDisk?

With thousands of disks being duplicated each month, a few will inevitably be faulty. Fortunately, we can help you. Send the faulty disk to:

Stanley Precision Data Systems, Unit F, Cavendish Courtyard, Sallow Road, Weldon North Industrial Estate, Corby NN17 1JX.

A replacement will be sent free of charge but please allow 28 days for delivery.

Copying the CoverDisk

If you are having problems copying the files on to a blank disk, follow our step-by-step quide below.

First of all, boot up your ST and format a blank disk. Then boot up again with the CoverDisk in the drive. You will see the Desktop appear.

Double click on the folder of your choice and a window will open showing the contents of the folder.

Some of the programs on the CoverDisk are archived. This means they have be squeezed so as to be as small as possible - in this way we can fit as many programs on disk as possible.

All archived filenames begin with X and the last three letters are TOS. If a file does not start with X then it is not archived and can be run as it is.

Click on the file and keep the mouse button held down. A dotted line will appear around the file. Keeping the mouse button held down, move the mouse pointer to the B drive icon until the icon turns black. Release the mouse button and you will see instructions appear on the screen. Click on OK or press Return.

Follow the instructions, swapping the blank disk and copy of the CoverDisk as requested. The instructions refer to disk A and disk B. Disk A is the CoverDisk and disk B is the blank disk you formatted earlier.

When the instructions stop appearing, the process is complete. You should end up with disk A (the

CoverDisk) in the drive. Remove it and put your blank disk - now containing

the copied file/s - into the drive. Open drive A by clicking on the A icon and you should now see your copied file.

If it is an archived file, double click on it and it will automatically be de-archived for you. If the file is not archived (ie it does not begin with X_) then you can run the program by double clicking on the filename.

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ou haven't got a 21in grevscale monitor? Shame on you! You're using a simple hand scanner? You can't be serious about DTP! You don't have 4Mb of memory? I'll let you into a secret - nor did I until three

We're all victims of advertising and marketing hype that makes us feel we need bigger and better systems. Most magazine guides to DTP on the ST tell you all the wonderful things you can produce on a basic 520 machine, vet every other review or advert seems to urge you to pay for more expensive software or expand your ST to the limit.

Contradiction

Judging by the mailbag here at ST User, this apparent contradiction certainly confuses quite a few users wanting to start out in DTP.

Common questions are "Should I expand my ST to 2 or 4Mb?". "What sort of printer do I need?" or "Which DTP package is best for a monthly church newsletter?".

In this, the first in a two-part feature, continued on page 58, we'll look at choosing suitable software.

One of the longest running debates in the computer industry has always been whether to choose the software or the

Just what is it you really need for DTP? Andrew Wright offers some pointers to choosing the right software

hardware first.

Many companies buy a particular product then a machine to run it on. Others get the best equipment they can afford and then look for something to

ST users are faced with the same problem, except that the choice of computer has already been made. So let's look at the problem from another angle.

What do you want the software to do? The box on this page looks at various applications and suitable

The list of requirements isn't exhaustive by any means, but it should serve to provide some pointers as to which package will suit you best.

The other concern, of course, when choosing a package is the overall quality of the package and how easy it is to use and live with

GST's Timeworks and the brand new Easytext Professional, just starting to ship as I write, are two broadly comparable packages relying on GDOS fonts and

fow frills The onus is on ease of use and Timeworks particularly has won plenty of followers, including me, with its superb interface and intuitive way of doing things. Newsletters, reports and leaflets are the bread and butter of these

Although missing the close typographical controls found in professional systems, balancing columns isn't difficult and there is a wide range of import

Unbegtable

PageStream is proving extremely popular with ST users - its wide range of features and excellent price appears to offer

unbeatable value. Its direct support for standard Adobe Type 1 Postscript fonts as used in the PC and the ability to import a wide range of graphics files from other machines makes it look very good on paper, not to mention the powerful colour handling (separations and spot colour) and facilities for skewing, rotating and stretching blocks of text.

Its main disadvantage is the lack of speed and very slow screen redrawing. A vear ago, Calamus - as v1.09n - was king, but the recently improved versions of Timeworks and PageStream seem to have robbed it of most of its glory, despite the remarkable drop in price.

The lack of PostScript support is the main problem for semi-professional use although there are bureaux such as CY Services in Nottingham which will output Calamus files onto bromide (this is a form of very high resolution printing which creates a high quality original for photocopying or commercial printing).

The top two programs, Didot Professional and Calamus SL need little

If you can afford either, they'll perform almost any job well, although Didot Professional is better for short, graphics intensive documents while Calamus is a better, if much slower, all

Not only do they cost more, how-

What do you want your

.189\DECUMENT.S\QUESTL3. H k 1. Place and pulses but come in them - a balon in all parties, number and DMC

Fill in the blanks - a form designed in Calamus

Newsletters

The prime object of a newsletter is to communicate information and ideas to a particular group of people - they can be members of the same church or special interest group, employees in a company or even a company's clients.

As such, newsletter readers are usually a captive audience, but that doesn't negate the need for imaginative design.

Newsletters generally range from single sheets of A4 to complex 8 or 12-page affairs, folded and bound by staples. As a result, they have to be duplicated in considerable numbers either by photocopying or a cheap commercial process.

Most newsletters will contain a fancy-looking masthead and several graphics, if only to prevent the thing looking too much like someone's dissertation. The rest will be text plus the odd tinted box or rule. Text handling is of prime importance in producing newsletters. For the best results it should be possible to vary line and character spacing (leading) by small amounts to make columns balance and

eliminate widows and orphans. A good range of quality typefaces is also important, particularly those suitable for body text (see this month's DTP Aspects for more information).

Colour is not normally a requirement although there is no reason why you couldn't use spot colour - a single uniform colour - for the masthead if it is being commercially printed.

Posters

The purpose of posters is obvious - to attract attention and convey a simple message as quickly as possible. Many posters need to be read in the time it takes to walk or even drive past them in a car

Others need to attract attention and then offer more information once the reader is up close. You need to bear in mind which type of poster you need before Posters are created in an entirely different way to fanzines or newsletters. A

poster might have very little text apart from a simple banner and could just as easily be designed in an art package such as Degas Elite. On the other hand, a poster needs a good solid display typeface and art packages with a good range of these available are quite rare.

Posters are more likely to be photocopied than commercially printed but if only a few are needed, they can be produced on your own printer, using colour if

The main requirements of a suitable DTP package are firstly that it should have a good range of outline typefaces available, and secondly, that it should be able to manipulate text both by rotating it and by distorting or tinting it.

Timeworks tips

get fed up with using the same old fonts in your docu

borrow a friend's machine or use the one at work. You

A File Edit Options Page Style Text Braphics Help The Newsletter Collection ITC Galliard - a superb typeface for body text. ITC Clearface - bold and clear About Cuber - part of the decorative collection. The same as Sto English Text. CARGO - AN UPPERCASE ONLY DISPLAY

FACE.

ome beautiful typefaces from GST -for those of you with PC emulators

eyer, but they need more hardware such as hard disks and mono monitors. So what are the main factors to look

for in choosing a DTP package? Much will depend on what it is to be used for, as we have seen.

PostScript will either be critical or irrelevant, depending on the level at which you will be working. PostScript is a page description language that controls how to lay things out on the

Both PostScript and Calamus outline fonts are expensive when bought commercially, but there are plenty of free

ones to download from CIX or Compuserve or order from PD libraries

Programs which can use outline fonts can also display a far wider range than Timeworks or Easytext, making them a better bet for posters and adverts.

Sources

If you use text or graphics from several sources, you'll need to be very careful that you can actually handle them, especially if some of them originate from other computers.

The top DTP packages are quite arro-

gant about supporting "foreign" text formats - they don't bother and virtually everything has to be converted to

For graphics, it will depend on how they are created. If you scan your own or draw them yourself, stick to the key ST formats such IMG or Degas and you can't go wrong.

If you are using files supplied by outside agencies. TIFF support is a must. There are plenty of conversion programs however, so all will not be lost.

· Next month we have a special feature on fonts and show how to design your own



DTP software to do?

Finally, it should have very flexible graphics import as several different formats, both hitman and vector, might be used on the same page.

Leaflets and brochures

Leaflets and brochures are like personal posters. They are designed to be placed in front of individuals and must attract attention swiftly while still carrying the required detailed information.

They do not need to be quite as bold but nonetheless, if a reader's attention wanes, it will be discarded.

Documents in this category lie somewhere between newsletters and posters. Not quite as text heavy, they still need to be typographically accurate but with strong advertising appeal. This makes it important to use bold graphics and display typefaces alongside tidily formatted text columns.

The ideal DTP package for leaflets and brochures will have most of the necessary features for creating both newsletters and posters but it need not be overly complex.

Forms

Forms are always associated with red tape but in fact they are essential to the smooth running of many businesses, from small home operations to multinational corporations. The physical aspects of forms design are catered for by most DTP packages, but some are better than others.

A duplicate function is useful so that lines and boxes can be spaced regularly over an area without the need to measure distances. The capacity to create lines of differing thicknesses and design, bordered boxes and a good background grid with "snap to" facility is also important. Text rotation can also be handy, especially when the form is a complex one.



Reports and papers

Students and businessmen will be no stranger to reports. Whether it's your monthly sales figures or your end of course dissertation, presenting your information properly is the first step to success

In the USA, in fact, some schools and colleges have banned the submission of desktop published work because it was gaining higher marks than the same standard work submitted in hand-written style!

The same features will be needed as for newsletters - good typographical control with good quality typefaces. Of course, you may need to use mathematical equations or statistical analysis.

Programs such as Redacteur with its built-in symbol editor and Wordflair with its charting features might be more suitable than a dedicated DTP package. Desktop publishing

Picking the best Systems

			icking	the p	est by	stems
Software	Easytext Professional	Timeworks 2	PageStream 2.1	Calamus 1.09	Didot Profession	
Price	£39.95	£129.25	£149.99	£139.99	£499	€586.32
Supplier	zzSoft	CGS	Silica Systems	Halco	CGS	Halco
Telephone Minimum RAM	0254 672965	0480 496666	081-309 1111	0734 441525	081-686 8121	0734 441525
Resolution RAM	IMb Med/Hi	ІМЬ	2Mb	IМЬ	2МЬ	2МЬ
Disk drive	Floppy	Med/Hi	Med/Hi	Hi	Hi	Hi
FONTS	Порру	Floppy	Floppy	Floppy	Hard	Hard
GDOS/GEM						
PostScript outline	Yes Blank	Yes	Blank	Blank	Blank	Blank
Calamus CFN outline	Blank	Blank Blank	Yes	Blank	Yes	Blank
Pagestream outline	No	No	Blank Yes	Yes No	Yes No	Yes
TEXT IMPORT	STATE OF THE PARTY	140	Tes	140	No	No
Ascii	Yes	Yes	And the second second			
Firstword	Yes	Yes	Yes Yes	Yes Yes	Yes	Yes
Wordwriter	Yes	Yes	No	Yes No	No No	Yes
ST Word/K-Word	Yes	Yes	No	No	No	No No
Protext	Yes	Yes	No	No	No	No
Redacteur	Yes	Yes	Yes	No	No	No
That's Write Calligrapher	No	No	Yes	No	No	No
WordPerfect	No No	No Yes	Yes	No	No	No
Microsoft Write	No No	Yes No	Yes No	Yes	No	No
PC formats	No	Yes	No Yes	Yes	No No	No
GRAPHICS IMPORT		CALIFORNIA CONTROL	103	140	140	No
IMG	Yes					
GEM	Yes	Yes	Yes	Yes	Yes	Yes
TIF	No	Yes Yes	Yes	Yes	Yes	Yes
EPS	No	Yes	Yes Yes	No No	Yes	Yes
CVG	No	No	Yes	Yes	No Yes	No Yes
Degas	Yes	Yes	Yes	Yes	Yes	Yes
GIF	No	No .	Yes	No	No	Yes
NEO Tiny	Yes	Yes	Yes	No	No	No
PCX	Yes No	No	Yes	No	No	No
IFF	No	Yes Yes	Yes Yes	No	No	No
Doodle	Yes	No	No.	No No	No	Yes
PIC	No	Yes	No	No	No No	No No
Arabesque	No	No	Yes	No	No	No
Macpaint	No	No	Yes	No	No	No
STAD Retouche	No No	No	Yes	Yes	No	Yes
AIM	No No	No	No	No	Yes	No
Targa	No	No No	No No	No No	No No	Yes
PRINTER DRIVERS		140	140	No	No	Yes
PostScript		Section of the sectio				
9-pin dot matrix	No Yes	Yes Yes	Yes	No	Yes	No
24-pin dot matrix	Yes	Yes	Yes Yes	Yes	Limited	Yes
Deskjet	Yes	Yes	Yes	Yes Yes	Limited Yes	Yes No
LaserJet	Yes	Yes	Yes	Yes	Yes	Yes
BubbleJet	Yes	No	Yes	No	No	Yes
Atari lasers	Yes	Yes	Yes	Yes	Yes	Yes
GRAPHICS			THE PASSES	THE RESERVE OF THE PARTY OF THE	A START LINE AND A	
Spot/process colour	No	No	Yes	No	Yes	Yes
Halftone screening	No	No	Yes	No	Yes	Yes
Irregular text wrap	N	Yes	Limited	Yes	Yes	Yes
Autotrace	No	No	No	No	Yes	Yes
Graphics rotation	No	No	Yes	No	Yes	Yes
TEXT						
Adjust character size	No	No	0.01 point	0.1 point	0.01 point	0.001 point
Adjust leading	0.01 point	I point	0.01 point	0.1 point	0.01 point	0.01 point
Adjust char. spacing	0.01 point	No	0.01 em	0.1 point	1%	0.001 point
Text rotation	No	No	Yes	Yes	Yes	Yes
Text manipulation Tinted text	No No	No	Yes	No	Yes	Yes
Text editor	No No	No No	Yes No	No	Yes	Yes
Spell checker	No	No	Yes	Yes Yes	Yes No	Yes
		140	Tes	res	No	No

Notes: The table is not meant to be a definitive guide to each package's capabilities. Rather it is meant to provide an idea of the strengths and weakness of each in relation to the others for various DTP purposes. It also indicates its "useability" how it internate with other software such as wordprocessors and graphics packages.

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Scanner appeal

Scanners are rapidly becoming indispensable in DTP. There is a much wider

able on the SI; the Logitech Scanman may arrive in the near future but there

Evesham Micros supply a simple hand-held with the Daatascan software but there are better models available from Power (see our review in the

september issue and vasisha.

The new Naskha scanner is a surprisingly late arrival from a company renowned for the quality of its add-ons such as mice. The scanner head is the same shape as its competitors but it has an extra set of rollers at the rear which make for much steadier scanning. Much more accurate scans are pos-

The scanner plugs into the ST's cartridge port via a small interface the size The leads from the power unit and the head are both long enough for most

art while a second set of switches on the left selects low, medium or high

Rubber coated rollers

underneath the scanner head which has rubber-coated rollers to make the

Date: and Power moues which are also available. In other words it wans greys by dithering the input to represent the various grey levels, using a 4 x 4 or even larger grid, depending on the setting.

The clever part of the Naksha package is the software, a new version of

Touch-Up (v1.8) which converts the dithered mono scans back into 256 greyscale IFF) which can be imported into any DTP package (except Easytext

Because it is a true greyscale image it can be resized without loss of detail or the dreaded Moire distortion patterns which normally occur when resizing scanned photographic images

On the negative side, a 300dpi scan becomes 75dpi due to the conversion process but this is actually a small price to pay for most DTP work as typical reproduction methods such as photocopying can't handle much higher reso-

you to edit or manipulate the need additional software for that, such as Retouche or Reprostudio. The Naksha software requires at least 1Mb of memory but it is with the ST on the market. It comes highly recommended and at £113.62 plus VAT it won't break the

bank. Naksha are on 0925 56398.



et's assume you've decided on a DTP nackage to suit your needs It might be £40 worth of Easytext Professional or it might be £600 worth of Calamus SL. What sort of hardware do you need?

We'll assume that you've got an ST perhaps even a TT - but what kind? It makes no difference whether it's an ST or an STE as far as DTP goes. Forget the extra colours and souned un sound effects - they're strictly for games and colour graphics.

You can only run DTP programs on colour monitors or TVs in medium resolution - at lower resolutions you simply wouldn't be able to see enough of the page area to work on it properly anyway. A TV will look rather blurred especially for close up work but most people will be happy using a colour monitor.

The best bet, if you're even half serious about DTP (and the only option with programs such as Didot Professional and Calamus which only run in high resolution), is a mono monitor

Excellent

Atari's SM124/5 and new SM144 models are excellent products - the clarity is stunning when you gaze at your favourite wordprocessor or DTP package running for the first time in high resolution

There are twice as many pixels in hi-res mode and this makes a considerable difference for accurately positioning objects such as fine rules and lines. The SM144 costs around £140 new.

A more cost-effective alternative would be to look for a second-hand SM124 model. They are very reliable and should be a good buy.

Memory upgrades are on everyone's mind these days. The price is dropping. especially if you can handle a soldering iron, and it makes all the difference to the way programs run.

The only DTP program with a chance of running in 512k is Timeworks. Version 1.12 will run reasonably well but the new version.

Timeworks 2, really needs more - it will run comfortably with 1Mb. Even the budget nackage Fasytext Professional, needs 1Mb. as does Calamus 1,09n.

PageStream will actually run in 1Mb but you'll soon run out of memory if you add a graphic or more than one font. The recommended minimum is 2Mb but I'd advise 4Mb - with this amount of spare room, fonts can be cached and the program runs a little quicker, especially when redrawing the screen.

As for Calamus SL. Halco claim

Desk File Edit Layout View Style Format Te Welland and District Anolino Dut of Henory Please save OK

Banish these headaches with a memory upgrade

that it will run in 1Mb but I'd hate to try it. The 2Mb recommended minimum should be adequate unless you are using a lot of graphics and additional fonts. Didot Professional needs a minimum of 2Mb but quickly runs out of memory when printing complex pages. Consider 4Mb as the minimum here.

If you're looking to upgrade, though, go for the maximum you can afford. If you can stretch to 4Mb, it will open up whole new horizons - you can run programs at lightning speed using RAM disks and use as many graphics and fonts as you like.

Accessories

You can also keen useful desk accessories or AUTO folder programs loaded all the time - text editors, font editors, image viewers and screen grabbers are particularly useful in DTP. Disk drives are another area of diffi-

culty. Timeworks works well from a flongy disk drive and Calamus 1 09 isn't noticeably slower, although there can be confusion when changing fonts disks. PageStream will run from floppy

drives at a pinch but it needs some care with disk swapping to





avoid crashes. Two floppy drives is a better bet but I'd advise saving the cash and putting it towards a hard disk, Hard disks are guaranteed to improve the performance of almost

area of computing. Timeworks is a drudge to load from

floppy but it loads in a flash from a hard drive (or a RAM disk for that matter). Didot and Calamus

SL both need hard drives - don't even think about using them with floppy disk

All the ST DTP packages work well with 9-pin and 24-pin printers, which is just as well as they're still the prime choice of ST users. Cheap to buy and run, yet very durable and reliable, they run almost forever and work with virtually all software, provided they are Enson FX compatible.

Photocopying

Most of the 9-pin drivers work at 120 x 144dpi resolution, which isn't too bad as photocopying will remove any extra detail. If you need to use the printed result as a master in a commercial printing process, however, then a somewhat

higher resolution is called for. Most 24-pin printers are capable of 360 x 360dpi, a higher resolution than the average laser or the popular HP Deskiet, However, because it is a high impact printer, the 24-pin tends to look somewhat rougher than laser or inkjet output but it does have the advantage of much lower running costs.

Note that a daisywheel printer is a

complete waste of time - it might look very sharp when printing text from a wordprocessor but it can't handle the graphic output from a DTP program. Be

If you want to earn a little cash from your efforts, you'll have to be prepared to move up a rung on the DTP ladder. This will involve learning to handle PostScript, the industry's standard page

layout system. When a document is commercially printed by offset lithography - the usual budget method for newsletters, leaflets and forms - a high resolution master is

required. For most jobs, the output from a laser or even an inkiet is perfectly acceptable but for top results a bromide has to be obtained

Typesetter

This is basically a very high resolution printout using a special machine called a typesetter - it prints at up to 2,540dpi (or more) on special bromide paper. An A4 bromide will typically cost £5 or £6,

less as the quantity increases. Timeworks, PageStream and Didot Professional all handle PostScript output making them suitable for hooking up to a PostScript laser or producing files for DTP bureaux to turn into bromides. The same bromides can be obtained by Calamus users but there are far fewer

bureaux Hopefully this article will have provided a few pointers as to the hardware you are likely to need - and the hardware you'll forever lust after!

Armed with a standard ST and the right DTP package for your needs, you'll be able to produce good quality work safe and secure in the knowledge that there will be plenty of room to expand

What hardware do you need to make the most of DTP? Andrew Wright looks at the options

Wa

Reflex action

Even the ST's mono 640 x 400 screen can get small, especially when you are regularly producing A4 pages. You can't display a whole page and work on it at the same time. The answer is to add a special piece of hardware that will increase the number of pixels displayed on your screen. You could then even consider buying a larger monitor.

The most widely used card is the Reflex graphics card supplied by Titan Designs now at a reduced price of £199. It will let your ST display up to 1,024 x 960 pixels, almost double the standard high resolution, on an Atari SM124/5 monitor.

You will then be able to view a full page at a time and make amendments or move graphics and text while watching the effect on the whole page. The Reflex is also compatible with most other software such as graphics programs, wordprocessors and spreadsheets.

It is simple to fit - it just plugs straight into a Mega ST's expansion bus and comes with a fitting kit for standard

Of course, the display is a little small on an Atari monitor so there are other options. The £399 Samsung A4 15in monitor is shaped like an A4 page and provides full A4 page cover-

age at a size that's convenient for viewing. At the top of the scale is the Eizo Flexscan 21in monitor which will set you back well over £1,000, a worthwhile add-on for the professional but a little hard to justify for most of us. Contact Titan Designs on 021-415 4155 for more details.



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What you see...

Whatever use you have for your ST, you'll be spending the majority of your

The majority of STs have a socket at the back which allows you to plug the ST directly into a television. You can tell whether this is the case, in principle,

The M in STFM or STM means that there is a modulator - the piece of hardware which allows the ST to produce a TV signal. Because of this, many ST owners still use a TV as their only monitor

Some televisions give an excellent picture from an ST, some not so good.

Code

The reason for this is that the modulator. which produces the TV signal, has to code the RGB output from the ST into a UHF signal. which the TV then promptly decodes back to send to the screen. With a monitor this coding/decoding does not take place, hence a clearer picture

An element of confusion is creeping in tors. Strictly speaking, these are monitors which can also pick up TV signals

This gives you the best of both worlds as long as you don't want to watch TV while you use your ST! I said "strictly speaking" because there are a number of TVs being sold

nothing more than televisions. Many televisions and video recorders have Scart sockets, also known as Euroconnectors and sometimes spelled Skart. The idea behind the Scart connector is a good one - a standard plug and socket which contains just about every connection you are likely to need for you audio-visual entertainment.

Problems arise when finding out exactly which pins of a particular TV are connected, and then finding a Scart cable to match it, with the correct plugs at the other end to fit your ST! Luckily a number of companies offer such cables, but check with them before you part with any cash for that good look-

A colour monitor will give you a far clearer picture than a television. Even if your TV looks pretty good to you, just wait until you see the screen on a dedicated colour monitor!

A number of monitors are available from various suppliers and, to be honest, most are very similar in all aspects except for price! If you have an STE, or a Stereo cartridge on your ST, it may be worth looking out for a stereo monitor

These monitors have two speakers rather than the normal single speaker, and will be able to take your stereo output usually using two standard audio plugs. The sound quality of such monitors is nowhere near as good as a hi-fi system, but where space and/or money are short this can be a good compro-

When Atari designed the ST as an Apple Macintosh beater, one thing they did exactly right was to include a hi-res mono graphics mode, as well as the lower resolution colour modes.

In order to get a very clear hi-res picture, the screen is generated at 70Hz. All this means is that the picture on the monitor screen is refreshed 70 times every second

A normal TV or monitor picture in Britain is refreshed 50 times a second. and in America 60 times. The advantage of this higher refresh rate is a very steady picture at higher resolutions

The disadvantage of this high refresh rate is that standard TVs and colour monitors are unable to perform, and so you need a dedicated hi-res monitor. Atari sensibly decided that, as the higher resolution itself is only black and white, they would produce a cheap mono monitor

There have been a couple of models of the monitor from Atari, but to my knowledge noone else produces one, so you're limited in your choice of manufacturers! That said, the moni tors are excellent, giving a crisp and clear picture with good contrast.

If you want to use your ST in both high resolution, mono and colour, you have two choices. Either you plug and unplug your ST from two different monitors - or a TV and a monitor - or you buy a multisync monitor

Multisync

A multisync monitor is quite simply a monitor which can adjust its refresh rate. So you can display a colour screen at 50Hz, then a mono screen at 70Hz. These days, most multisyncs will adjust themselves for you,

but some models will need some knob twiddling when you change resolutions to get the picture just right. A couple of points to be aware of if looking for a multisync - remember that

there are colour and mono multisync monitors. Mono multisyncs work fine with the ST, but you'll only get a black and white picture even in colour modes

You will need a special cable to connect your ST to a multisync. The cable will need a switch, which you use to swap between colour and mono modes. This will cause your ST to reboot. Although this is annoying sometimes, it is quite easy to live with in most circumstances

One advantage of GEM-based packages is that the window size is limited only to the physical size of the screen - at least in principle

This means that you can buy a large monitor and get a bigger Desktop (again, in principle). If you are using your ST for serious DTP work, the addition of an A4 paper white monitor, and a graphics board to allow the ST to drive it, brings a whole new meaning to the phrase What You See Is What You

Before parting with cash for this type of monitor - and they don't come cheap - it is well worth checking that the software you intend to use will run successfully using the monitor.



Scannina

If your artistic skills are limited

a scanner could be the and repro-duces

Professional

Make sure the scanner is wide enough to

encompass the type of image you may scan different parts of the same image, and

knees, but check out the software provided touch up the pictures before putting them

Hardware

...is what you get

Despite claims of the imminent arrival of the paperless office, it still seems

Whatever use you put your ST to, a printer is always a useful addition. The type of printer you want, however, depends a great deal on exactly what you want to do

Many programs come with a range of printer drivers for different printers, so make sure your software has a driver for the printer you are going to buy! still use a printer even though you do not have a specific driver for that

attach to the printer port of your ST. Most printers have

Capable

Some are capable of using either serial (RS232) or parallel(Centronics). both text and graphics, and imagine the noise in the environment in which

imagine that a 200cps printer will actually print 200 characters in a second! If

you use a DTP package, or similar, then the page printed will to all intents eral minutes on a slow

Upgrading your ST will go smoothly if you follow Marc Young's advice and look before you leap

hichever model of ST you own, there always seems to be a nagging voice in the back of your mind saying "upgrade it!". Whether you listen to this voice or not is another matter, but if you do, then what should you be looking for? Is it better to buy a second floppy disk drive or to upgrade your

memory? Will a 40Mb hard disk drive be large enough? Exactly what is a multisync monitor?

Read on, dear reader, and hopefully I will be able to answer some of your questions – except perhaps for that all important query,"How do I

Printing power

Printing by means of nine pins being forced against the paper, with an inksoaked ribbon sandwiched between, these printers have been around for

Print quality is generally poor, though many now have NLQ (Near Letter Quality) modes which improve the quality sufficiently for letters. Not recommended for printing graphics, though it is certainly possible.

Quality

Using the same technology as the 9-pin printers, the 24 pins increase the quality dramatically by increasing the number of pins. Ideal for the average home user, good enough for printing text and graphics at reasonable resolu-

Inkjet printers work, as the name suggests, by firing a jet of ink at the paper. Varying methods are used by different manufacturers

These tend to use about 48 jets, so the resolution is the equivalent of double that of a 24-pin dot matrix. The quality of many of these printers is excellent, and they have the added advantage of very quiet operation. These printers work by writing the image to be printed onto a metal drum, using a laser. This use of lasers allows very high resolutions of 300 or

While this has been matched recently by the bubblejet printers - at least up to 360 dpi - the accuracy of the positioning of the dots, and the uniform size of the dots on a laser printer generally gives a slightly better quality output. Also, once the image is made

up on a laser, the output is very fast indeed

even 600 dots per inch

Working using the same principle as a typewriter, in that a character moulded out of metal is hammered against a ribbon and held against the paper, these printers give the best pos sible quality at the expense of speed





Floppy drives

disks. Except for the very early STs, every model of Atari's flagship computer

The obvious answer for this minority is to upgrade to a double-sided to use some software which is only available on double-sided disks (like our

There is also, however, a third option. This is to buy an external double-

unusual shape of the eject button - but leaves you with a double sided disk

Floppy disk drives are relatively cheap at present, so it is probably worth buying from a reputable ST dealer, rather than shopping around and risking

Correct

These can be obtained separately, so you could save a few pounds by buy

These drives will allow you to store more data on your floppies, but I

when the disk has been removed and replaced by another disk. At best this is annoving, at worst you'll lose all the data on the disk

have this problem, so again, buying from a reputable ST supplier can have

You'll also need a hardware upgrade, and some software to allow you to

More storage space

If you use your ST a lot, you'll probably find that quite a proportion of

If your program collection spans several floppy disks, you will also proba-y spend quite some time trying to find the correct disk! All this can become a thing of the past with a hard disk. Atari sensibly

adaptor, which is in turn plugged into the device (such as a hard disk).

In the computing world, SCSI (pronounced Scuzzy, an acronym for Small Computer System Interface) is a standard for many peripherals, including

Interface

them relatively cheap. But the ST doesn't have a SCSI interface.

Luckily there are adaptor boards which convert between the SCSI format

Over the past couple of years, more and more third-party manufacturers

Things which you simply wouldn't have done when using floppies. norm. Boot-up utilities will compete for space on your hard drive, where you wouldn't have bothered on floppy unless you wanted to wait five min-utes every time you rebooted.

Noise is a very important consideration for the home user. Many hard

disk drives have fans to keep them cool. At an exhibition, or in a shop, the noise probably seems like a quiet hum

husband tuning in to One Man and his Dog, it can sound more like a 747

landing on the, erm, landing!

If you buy second-hand, check that the hard disk you are buying will auto-boot. It is somewhat frustrating to be lumbered with a nice fast hard disk, and to still have to boot from

while upgrading your TOS if it before v4, as the hard-disk handling code was dramatically improved

hard disk drives.

symptom you are likely to first notice is your hard

safe, and put nothout over several hours!





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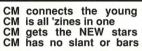
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Of mice and joysticks

The mouse supplied with your ST may travel miles around your mat every day, so maybe it's time you traded it in for a new model.

The standard Atari ST mouse is not a bad little rodent, but it may well be getting a little long in the tooth. If you've had your ST for a while, you can add zest to your computing with a replace-



Of course, you needn't necessarily buy another mouse. You can buy a track ball, which can be a great boon for the cramped desk. If you've never seen one, it's basically a larger upturned mouse, where you move the ball with your hand rather than rolling it across your desktop.

You can also get a mouse pen. This is essentially a tiny mouse, in the form of a pen. These do take a little getting used to, but can be great if you use your ST for graphics.

Strenath

On the joystick front, the number of available joysticks is growing every day. The choice is a very personal thing, but if you use one a lot, it's worth spending a little more money on something

My advice would be to avoid the gimmicky joysticks, with stopwatches, countdown timers and so on, and go for comfort

Always make sure the mouse or joystick will work with the

ST. Apple, Amiga, PCs and so on all use slightly different systems

Mice differ in their resolution - that is, the distance the mouse moves on your desk to move the pointer on your screen a given distance. Depending on your use, a higher resolution ouse may be a boon, or a nightmare. Try it out if you can

Avoid short cables. It's better to become entangled in yards of wire than having to hunch over your ST every time you use your joystick

Emulating

Your ST can become a master of disguise, changing into a Macintosh or a PC lookalike at the flick of a cheque book

If you use other computers at work, or there is a particular piece of software running on another machine which you need, then the emulator could be for you. As the ST uses the same processor as the Apple Macintosh) one of The other obvious emulator, to turn your ST into a PC, has been some what longer in coming, but now several are available.

Capable

If you require a Macintosh emulator, your choices are limited to say the least, and it only remains to ensure that the emulator is capable of running

The emulators available require the Macintosh ROMs, which are copyright. Therefore it is worth checking that the price quoted includes the ROMs, or if not, that you can get hold of the required chips

PC emulators are more varied. Different flavours are available, from the humble XT emulator, through to 8MHz AT variants, to 16MHz. You should bear in mind, though, that the entry level PC is

quickly becoming the 25MHz or 33MHz 386 PC If you have the desk space, then it may be cheaper to buy a small PC to use side-by-side with your ST. If power is not a major pre-requisite, then a 286-based AT emulator will probably suffice, and will even allow you to run Microsoft Windows, albeit at a horrifyingly slow speed. GEM interface, and realise just how good

Neodeck ist



Memories are made of this

Ungrading a half megabyte ST to a full megabyte can actually be cheaner than buying a 1Mb machine in the first place, so why not save some money

64k of memory, if you were lucky! A computer with 512k, or even a whole megabyte seemed almost like overkill. But it didn't take long for the programmers to take advantage of all this extra memory, until even a megabyte was a constraint.

sound, but because of the number of half-megabyte STs, the majority of games would at least run on the smaller machines With serious software, such as deskton publishing, more memory

meant a more professional product - more fonts, better graphics and

Although many programs will still run on a humble 520k machine. 1Mb or more is becoming the minimum realistic requirement for serious use.

So what do you do if you want to increase your memory? A lot depends on exactly which ST you have. If you have an STE, then the job is a fairly simple one. Memory upgrades are available in the form of SIMMs, which are simple plug-in memory boards, allowing

Older

Older STs, unfortunately, are not quite so easy to upgrade. There are a number of different memory upgrades available, tak ing a 520ST to 1Mb, 2Mb, 2.5Mb or 4Mb.

Some are one-off upgrades, which will have to be replaced if further memory ungrading is required. Others can be ungraded simply by adding, or exchanging RAM chips. Still others actually allow you to plug in SIMMs, as used in the STE.

Try to work out how much memory you are going to need before deciding on the upgrade. Bear in mind that you may use some memory-resident programs which you had no room

For example, if you need 1Mb to run your DTP package upgrading to 2Mb will not only give you a little extra for more fonts, or extra graphics, but also enough for a RAM disk to speed up the whole opera-

Try - though this may be difficult - to get a look at the installation instructions before you try to install an upgrade yourself. Some may be

Generally, it is best to avoid non-upgradable upgrades. Assume that you will want to upgrade in the future, and you shouldn't go too far wrong. If you're not happy about performing the upgrade yourself, try to find omewhere local who can perform the upgrade for you - posting your ST way can be a traumatic experience



Is anybody out there?

Your ST may get lonely, sitting on the desk all day with nobody to speak to. Why not treat it to a modem

information available for the ST, all sitting on the end of a telephone just waiting for your call. If you are thinking of joining the communications revolution

you'll need a modem and a communications package

Modem

A modem simply plugs into the back of your ST, and into the telephone line. If you have the old permanently fixed telephone lines, rather than the plug-in type, you'll change them over before you can use Speaking of BT.

is not approved for use on the BT sys-

That said, there are few modems on sale which are not approved, and these should always have a sticker saving that they are prohibited.

Modems come in differing flavours, each having its own number. For example, a modem working at

A modem works by taking data a byte at a time from your ST and converting it into pulses which can be sent down a telephone line. It also receives pulses from the phone line, and decodes them into bytes which can then be sent to your machine. Obviously

the faster a modem can do this, the less time it will take you to send or receive a file, and so the lower you will keep your telephone bills.

The speeds are expressed in bits per second. In principle eight hits per second would be one byte, or one

something like one and a half hours to send the text mally available would be 300bps, which would mean a more reasonable three minutes

If you can afford it, buy a fast modem. Anything less than 1,200 bps is going to be frustratingly low.

> higher becoming more ponthe modems you are going to

be contacting also sup port this, this can lead to effective transfer that which would be speed of the modem.

Understanding

means that they are capable of under standing a number of standard instruc-

to dial a particular number, or to hang up the phone

HiTec EC2400 amuses

As most software copes with the Haves commands it makes life a lot simpler to stick to this protocol.

At the very least, pick a modem which has an autodial facility. This allows you to type in a telephone number to your computer, and the modem will then call it for you

The alternative of dialling the number yourself, then pressing a button on the modem and hanging up be able to get at your modem, rather than being able to hide it under your desk.

Faster than a speeding bullet

maybe your ST could do with a fresh

fairly crackles, but you almost certainly

Some accelerators work by effectively replacing the 68000 processor used on the ST with a 68030 processor, as used in

disabled, as there will almost certainly able to be disabled, either via a hard-



General pointers to buying ST hardware

Whatever the product, check you will be able to switch it on and off or adjust it, without having to crawl under your desk!

Mains cables
Ensure that there is enough mains cable to reach the plug socket from the position you are to position your new purchase.

Make sure all the necessary cables are included, and make sure they are for the ST, or at least make sure you can buy the cables elsewhere, or make them up yourself, before terking

Depending on where it is going to be positioned, remember to look at the size of plugs and the positions of sockets before working out whether the item with fit on your desk.

Unless you know exactly what you want, avoid boot fairs, auctions atc. It may look a bargain on paper, but if it doesn't work with you ST it may as well be a pile of bat's poo!

Completeness

Make sure you know exactly what is included in the package you are

buying. Besides cables, do you need any particular software, or ribbons, cartridges, batteries?

This may seem obvious, but check the price! Does the price quoted include VAT, delivery and so on? If you are buying from an exhibition, or browsing round several shops, take a recent copy of ST User along, and check the prices quoted against the adverts often use that as a bargaining tool to haggle a price lower.

If there is any possibility at all of you upgrading someth out the cost before buying – it may be more economical run to wait until you can afford exactly what you want, rather than buying what you can afford and waiting until you can afford the

If a manufacturer is releasing an updated model, the previous model will be cheap, and get cheaper.

Keep your eyes open, as there are few things which increase the blood pressure like realising that what you be not only out of date, but also half the crice!

There Ain't No Such Thing As A Free Lunch, If someone is offe

There Ain't No South Thing & A Free Lunch. It someone is offering three software peakages and hotel accommodation in a third world country free with every widget, you are paying for it!

Before you po for the deal, make sure you want the packages, and the boilday, and make sure you know exactly what is being provided. The phrase "fop wordprocessor" may simply mean a PD WP package which is available for a couple

Haggie
In these days of economic browhsha, the consumer is king. The British may be traditionally reserved, but take your wallet in both hands, decide on the price you want to pay, and go for it!

Almost every piece of hardware you add to your ST requires some power, either drawn directly from the ST, or from the mains supply.

It is important that you check your mains connections properly

and tuse the plugs used before use.

With a complete ST setup, you could have six or more plugs all going off to one socket! This is not recommended.



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HCS STE memory upgrade kits come complete with full instructions designed for the amateur. The complete job

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kits come with tree utilities disk and multitasking software.
Upgrade from 520 to 1040£13.99

To 2 Megabytes....£44.99 To 4 Megabytes...£84.99

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Xtraroom Deluxe plug to upgrading system fits inside the computer, It can upgrade your computer in stages to 1Mb, 2,5Mb and AMb. The kit comes with comprehensive instructions designed for novices. The kit uses SIMMS, so is easily upgradeable.

Marpet Xtraram Deluxe

Upgrade from 520 to 1040 £44,99 To 2.5 Megabytes £79,99 To 4 Megabytes £119,99
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Solder In Kit

Solder in kit upgrades 520ST to 1Mb 4 or 16 chips SMD or DIL types available. 16 chip c/w sockets. All c/w CAPS+ resistors + instructions.

Solder in kit (all versions)£25.00

The HCS power supply and disk drive upgrades come com-plete with fitting instructions and plug straight into the ST with-out soldering. The Power supply produces less heat than the original so is more reliable.

Double sided disk drive kit£47.00	Replacemen Double side	t power supply d disk drive kit	£39.95
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ACCELERATORS

ICD AD Speed uses 68000 switchable between 16MHz with cache and 8MHz 100% compatibility. The 68030 SST runs at 50MHz with space for 8Mb memory incl TOS 2.

AD Speed ST £145.00 AD Speed STE £165.00 68030 SST-50 £250.00

INTERFACES

The "AdSCSI ST" ICD host adapter gives SCSI output from the STs DNA port, complete, with software and full documentation, DNA colle and hard drive formatting software. Keyboard interface allows the use of PC compatible keyboards on the ST. Multires allows the ST to display all 35 resolutions on the multisync monitor. The forget me clock sets your STs time and date with contridge-through port.

AD SCSI	£69.99
AD SCSIAD SCSI with clock	£79.99
Cevboard Interface	£55.00
Multirez	£44.99
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MODEMS

The best data Smart One full featured modems have full industry standard compatibility including class II Fax protocol. All c/w PC software (fax software if applicable). 2400X gives V22bis, V22, software (tax software it applicable). 24,00% gives VZ2bis, V22, V21. 9624 FX as 24,00% + 9600 BPS fax, + extra. Smart One 1,44,00 comes with MNP level 1-5 and Fax capability. Using V42 bis gives a maximum effective thruput of 58,000 bps! All types come c/w cables. Straight fax supports most common graphic formats with fax drivers for Pagestream and Calamus for immediate

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mart One™ 9624 Fax PC software only	£119.9
mart One™ 9624 Fax with Fax software	£139.9
mart One™ 14400 Fax MNP V32, V32bis,	
V42, V42bis etc	£249.9

14" Super high resolution 0.28mm dot pitch monitor is compatible with TT, PC, Falcon and Multirez. The new HCS MM140 Monochrome monitor has tilt/swivel base and 14" tube. Fully compatible with all monochrome ST software. M

M140	Monochrome	monitor	£115.00	
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Atari TT2£1050.00

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Slow sales for Mega STE

Mega STE - it's here at long last and what's it like? Well it's fast, versatile. powerful, available now. And what isn't it? Selling.

The reasons are quite simple - it costs too much and everybody is waiting for the Falcon

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

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

Based on previous performance, the Falcon is not going to appear in this country in any quantity until this time next year. Just look at the effort it took Atari to release the Mega STE and TT.

How many botched releases, how many hardware problems, how many supply problems, how much messing around until you could actually buy one? Does anybody think the launch of

the Falcon is going to be any easier? Why does this matter? Well it matters because it is killing sales of current

machines

Who in their right mind would buy an STE or Mega STE when all the signs indicate that this world-beating Falcon will be here early next year? How many Christmas sales will be put on hold wait-

Got anything to say to the ST community? Send your scribblings to:



Write Now!, Atari ST User, Europa House, Adlinaton Park. Macclesfield SK10 4NP

ing for this wonder machine to arrive? And all the time there will be a steady attrition of potential buyers migrating to PCs, Amigas and Macintoshes, Only die

hard ST owners who need a new machine now and can't wait any longer are going to how

What is the solution? Atari must either launch the Falcon now, or dampen down speculation with a good Mega STE price cutting and promotion campaign. This limbo we're currently in will do Atari immense harm otherwise.

I am not a doom and gloom merchant really, but sometimes the obvious has to be said. Despite owning what is likely to be the forgotten machine - the Mega STE, didn't you guess - I wouldn't be disappointed if the Falcon hit the High Street tomorrow. At least Atari

would make some money. Promising a pipe dream has the opposite effect, and if Atari go down then where are we? Roland Givan, Brentwood

The Mega STE, it would appear, has no life in this country When ST enthusiasts wanted it, Atari were shipping it into practically every country you could

mention except Britain. And when it did sneak in, the only way Atari promoted it was with three or four thin leaflets outlining "serious" ST/TT applications, Incidentally, I've never seen these outside Atari.

Pricing is important, but more importantly there has to be awareness of the product. If you weren't part of the ST community and have an interest in its future, would you have ever heard of the Mega STE?

How many times have you looked in business computer publications and seen advertisements for the Meva STE or TT?

You're concerns about Falcon are similar to many that we've been hearing from readers and industry figures. Atari say they can deliver Falcon during October - we will have to wait and see whether it shows

Pleasing printer service

So often I read in magazines, and not just computer magazines, of had service from mail order companies. Well I am

Positive PC view

I am writing to congratulate you on the new style of your magazine. Its content has improved dramatically over the last few issues, becoming more professional and not just another games mag.

However, I wish to take you to task over a couple of matters. Firstly, any discussion about a choice between the ST and the PC has, unfortunately, fallen

into that very outdated trap of comparing the ST against the PC on

Pound for pound the PC is, at the moment, far better value than the ST - yes I know that is not something we like hearing but it is true

With the marketing deals available at the moment it is much cheaper to buy a PC because ST users have to buy their hard against Big Blue and it imitations.

Rather, I explain how much easier the ST is to use, how intuitive the operation of the programs running under GEM are and how old-fashioned and unfriendly MSDOS is

In other words, explaining the virtues of the ST against the negatives of DOS. I hope we will see more articles along this line, not using the tired old one of

cost in future. Finally, it was great to read your praise of the PD software ST Writer Elite this is typed on it - and that you use it yourselves at the offices.

The PD pages keep me informed of new items but may I make a suggestion? Why not pick out a couple of those reviewed and include them on the

CoverDisk? At the same time could you not increase the amount of space given over to the PD scene. In any event, keep up the good work - you're getting more like the old ST World every issue, and that's praise indeed! Anon, Guildford

It makes a nice change to receive a letter putting forward an argument in favour of the ST. As you have illustrated there are advantages of both the ST, the PC and, yes, the Amiga.

But while you are right to say MSDOS is unfriendly compared to GEM, most PC users are today using 386 or 486 machines and Windows - this software makes PCs much easier to use.

Thanks for your kind words about the magazine. Like many other readers you are particularly interested in the public domain pages, and would like to see an increase in

It is a possibility I am looking at, but unfortunately because there are fewer and fewer PD releases as each month passes the software reviewed could not be new.

We try wherever possible to put the latest software on our CoverDisk. but when a library takes the trouble to send us a disk for review I am

reluctant to copy it straight on to our CoverDisk.

In the short term our readers would benefit, but in the long term libraries would receive fewer orders, meaning less revenue, and I'm sure it wouldn't be long before many closed. That would be a disaster for us all

Letters.

not writing to complain, but to praise. I sent for a new printer, the order being sent off on a Friday. I received the printer on the following Tuesday, Yes, the Post Office and Securicor did their part, but full marks must go to one of your advertisers. WeServe of Portchester, Hampshire,

I telephoned them to say thank you. and to tell them that the first letter printed out on my new printer would be to you. singing their praises. I would recommend them to anyone. Re Spinner, Durham

A great number of software and hardware manufacturers and suppliers give their customers a first class service, but nevertheless well done WeServe

Conversion costs take over

In the letters pages of the September issue of your magazine. Mr Mills of Andover asks why you don't consider producing quality software for the Atari ST, mainly games which software houses have stated that they are not going to convert.

He names Eye of Beholder and Monkey Island 2 as two examples. In reply you state that you publish magazines and are not a software house

Why then is Easy Amos for the Amiga produced by Europress Software, with an address remarkably similar to Europress Enterprise in Macclesfield?

Would you care to rethink your reply to Mr Mills in view of this? On the face of it. it appears that even Europress are deserting the ST. I hope not.

Clive Booth, Derbyshire

My original answer still stands Clive The letter asked Atari ST User to convert the games for the ST and not Europress Software, our sister company.

You mention that our software divsion



We can be contacted on several bulletin boards and conferencing systems. If you have anything to say, why not get it off you chest online? Speak to John Butters on

the following services:

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publishes Easy Amos for the Amiga, and suggest that the Europress Group are deserting the ST.

Remember, we continue to publish two monthly ST magazines - Atari ST User and ST Action - and our software house wrote and recently updated STOS, the very popular games creation software for the ST.

Publishers deciding not to convert their software are doing so because sales of ST vames have fallen back to a level where they sometimes don't even break even financially - or so I'm told.

True, these software houses are deserting the ST, but at the end of the day if today's firms are to produce games for Falcon in a year or so they have to stay in profit now.

Entering the games arena

Back in 1987 I bought myself an Atari 1040ST and a black-and-white monitor for the sole purpose of running the Steinberg Pro-24 Midi software

Indeed that is still all that I have used it for, but now the time has come to fully utilise my ST, and I thought ST User could give me some advice.

Primarily, I would like to be able to play some games on my computer. The games that I want are for two players - that is, I can play the computer or play a friend using a second joystick. Could you recommend a pair of mid-price joysticks?

The games that I want are a football game and a boxing game. Do you have any suggestions? I would also like to buy a Rambo-type game of mindless violence where I'm not too bothered about the twoplayer option. Any ideas? Steve Hallett, Surrey

The pros in the office don't let their Zip Sticks out of sight. They are likened to a dor's sexual organs, so, Steve, I'll let you decide whether you want them in your

As for games, Panza Kick Boxing from Kixx and Renegade's Sensible Soccer should keep you and a friend happy for

For a good game of mindless violence look no further than Smash TV, a budgetpriced Ocean game. Taking part in a TV games show, your aim is to blast people to pieces.

ATARIST

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Advice

ave you ever wondered how it is possible for companies to be able to have a sale where they slash the price of products and still make money?

And, if they can do it at sale time or more typically just after you've bought a product at full RRP, can't they do it when you want to buy something?

Well the answer is ves and has to do with margins, that is how much everybody makes in the selling process. Knowing how tight margins are for dealers will help you negotiate a better deal and thus better prices.

For starters, an understanding of how products get from the manufacturer to you will help. There are hundreds of thousands of people, just like yourself, who buy ST hardware, and peripherals.

To sell these computing products to you and others a large number of dealers and mail order firms have sprung up across the UK.

Staf

Like any company, the less staff a hardware manufacturer or software developer has to employ the cheaper it can produce its products for.

Naturally, for such a company to "service" this huge base of dealers requires a large work force of sales staff, administration teams and support personnel. For this reason a second layer of suppli-

ers have appeared. These companies take the product direct from the manufacturer and supply the nationwide dealer base. They are known as distributors and supply only to the trade - there are fewer than 50 such organisations in the UK, and they are all fairly large (much bigger than the average dealer).

So now we have it - between you and the original developer there is a distributor and then a dealer. Both take their share of the RRP price that you pay.

Now the important part. The dealer pays a sum to the distributor for the products he buys. Then he adds an amount to this - covering his or her costs and making a small amount for profit - and sells it to you.

The amount they add usually brings the price up to a retail price set by the original developer but it is completely up to the dealer if this is the case.

Sometimes they add less, thus making themselves less money but allowing them to undercut their competitors and hopefully attracting more customers. How the dealer sells the product will also determine the price.

Mail order companies, because they don't have to pay for costly shop space and keep products on display, can charge less - which is why mail order prices are typically lower than shop

I should add, however, that there are advantages to you in buying from a dealer with a shop rather than just mail order operations and these can often

justify the slightly higher price. So when buying the product, if the seller is quoting the RRP you will probably be able to haggle them down a little bit on the price - after all they would rather gain a sale and make some money than lose it completely.

In fact a great many of the larger dealers who only advertise RRPs often have a price match service for just this

Those companies advertising at reduced rates have already discounted to some extent before you even talk to them. As such they are starting on a lower margin and thus are less likely to

be open to negotiation on price.

A point unconnected with your buying price but worth consideration is that those companies consistently advertising at prices well below RRPs are running on very tight margins. As such they won't have that much

money and in some cases may skimp on the after sales support or have no intention of being around for long.

Basically, while it's OK for you to talk a dealer down, be careful of those who appear to be advertising at ridiculously

Power

low prices.

Another way you can often get a good deal is to simply ask. Bigger dealers and organisations have considerable buying power and can force their suppliers to reduce their selling price (a technique vou can use as shown later on) or buy "end of line" stock - all dealers occasionally have ex-demo stock or reboyed product

End-of-line stock is particularly good value. For instance, when the Mega ST was discontinued to make way for a new model, a large dealer would bought all of Atari's final stock for less than normal and then sold it off cheaply. In this way Atari clear their warehouse to make way



often picked up cheaply

for the new product, the dealer sells however many it bought, making a quick killing in the process and you, the user, get a good product for a low price everybody gains!

Promotion offers are the old favourite of the sales and marketing staff. Using the Mega ST in yet another example, imagine that it hadn't been the success it has been and had in fact flopped.



High Street sales are an obvious place to star looking for bargains

Buying hardware at the lowest possible price is easy when you know how. Keith Milburn has some pound-preserving advice



Getting the



r shops prices should become competitive

Atari would now need to sell all the mass product stocks it had. A favourite remedy is to slash the price - providing you know the product is OK for your requirements, you can once again get a good product for a low price.

In all circumstances, however, ensure that the product has a full warranty and parts will continue to be available. Reboxed or cosmetically damaged stock is particularly open to abuse and more likely to fail, although in my experience this is very rare!

In most cases the casing may be slightly scratched while being demonstrated, or the packaging dented when someone carrying it walks into a bench corner etc.

Negotiation

It is then not possible to sell it as new and it needs to be sold off as quickly as possible (no one wants piles of damaged stock occupying valuable space). Prices on such stock can frequently be negotiated down further given the right techniques.

This brings us neatly to the next topic. There you stand in front of an eager sales assistant or maybe sitting down on the phone to a mail order firm.

You've explained what you want, and the firm's representative has given you their price. How do you go about getting their price down?

Well the first technique should start even before you've approached your dealer. Pick-up your favourite ST magazine and note down the advertised prices of the item you are interested in from other dealers.

Approach Now approach your chosen dealer,

when it comes round to pricing time point out that other dealers - hopefully in the area - are selling the same product for less and if necessary give details.

At this point, with hardware at least, you'll need to make a choice. Many dealers will offer you some form of software nack free of charge instead of a lower price.

These packs take the form of giving you a greater saving, than if the software is bought separately, over the saving you will make on buying the hardware from a cheaper competitor.

Whether you want to save more there



Even music shops are ofering incentives - in this case 1Mb in Discovery Xtra

and then by going for the cheaner dealer's hardware or save more in the long run on software costs is your choice. I'd recommend the long run saving personally.

If you have no straight competitive price advantage to play with, and you are fairly confident, you can try to bait the sales representative with a question. Something like: "Why should I buy from you rather than a High Street multiple?" for example will occasionally result in a volunteered price drop

Other techniques you may like to try are joining forces with your friends and buying two or more units at once or offering to buy a lot of other products. such as a printer or monitor, with the main hardware to increase the overall order value. Some dealers will happily reduce the individual price of the items in return for a greater sale value.

If you're looking for a really good deal, then there are few better places than computer shows. The specialist computer shows, like the International Computer Show, are great places for bargains, especially on the last day when the traders are looking to rid their stock and thus avoid taking it back.

All the above techniques can be used at shows, usually to even greater effect and there are often some truly fantastic offers to be had.

A final last resort, and one only available to a few, is buying through your company. Many ST dealers have corporate sales teams who sell, not surprisingly, to corporates and large companies.

If the company you work for uses computers you could ask the purchasing department to approach the dealer in question and try buying it at this level for you. As I've said, this route is only open to a few, but if you can do it do so, it is worthwhile

At the end of the day there is a simple rule to follow when try to get a good deal out your dealer. Remember that they are, after all, there to make money - if they don't they won't be around, and you'll lose out.

So when negotiating, give them room to move and play fair. If you make them a reasonable offer, most dealers will be happy to work with you - let's face it, you need them and vice versa!

right deal

Tutorial

his month we'll tackle the only part of the program we haven't explored so far - the Edit facilities. These are generally the most complex part of any sequencer and Midistudio is no exception. However, they are all easy to use as we'll see All operations in the Edit window are performed on the Current Phrase which appears in the Current Phrase box. You can drag a new Phrase here for editing

from the List or Arrange windows. **Parameters**

We saw how to move through the edit display in the first part of the tutorial. Alter numeric parameters by clicking on them. Del, as you might guess, deletes the current event although you get a warning dialogue box to prevent accidents

The two < Ins boxes are used to insert events before or after the current event. But first you specify which type of event you want to insert from the list above and below the <Ins boxes:

Aft - Aftertouch, Not all keyboards support Aftertouch. It is a message generated by pressing down on the keyboard after playing a key in the normal way. It is commonly used to add vibrato to a sound but it can also control other narameters

Bend - Pitch Bend. This can take any value from 0 to 16.383 but it is represented by two data bytes. Settings of 0 and 64 are the mid-values which means no bend. In the program the second entry is the coarse byte. Alter this one



PART 3

Ian Waugh continues his tour of Midistudio Junior. looking at some of its more advanced features

The boxes on the extreme right of the window let you play back the Phrase either from the beginning or from the Current Event, Playback will loop from

the start point to the end until stopped. allowing you to make changes on the

Playback The Channel box at the bottom can

be used to select the Midi output channel for Phrase Playback Any changes you make in the Edit win-

dow are permanent - a copy is not stored in the Buffer automatically but you can store a copy in the buffer prior to editing. Clicking on the Print box gives you

the option of printing the Page - which consists of the events you can see in the edit window - or the entire Phrase.

Next month – Power User hints and tips!

Midistud

and fine tune with the other if necessary. Sixty-four is the mid-value which means no hend

Normally, a continuous stream of data is used to bend a note up and back



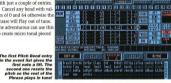
tudio Junior's Edit window

Velocity

down to pitch, or vice versa. However, you can produce bend effects

with just a couple of entries. ues of 0 and 64 otherwise the PRINT Phrase will Play out of tune. The adventurous can use this to create micro tonal pieces!

The first Pitch Bend entry in the event list gives the first note a lift. The cond one resets the nitch so the rest of the



A glossary of edit functions

We looked at Quantise in the first part of the tutorial. Here are the other edit functions:

Copy Creates an identical Phrase with a different

Split Splits a phrase at a specified bar and beat position.

Merge Merges the Current Phrase with a destination Phrase. The Current Phrase is unaltered and a copy of the destination Phrase is saved to the buffer.

Append This joins the current Phrase to the end of a destination phrase. As with Merge, the current Phrase is unaltered.

Filters This lets you remove certain events during or after recording. Events with the filter on in the Auto column are removed during recording (actually they're removed just after recording), those set to on in the Exec column are removed from the current Phrase when you click on Exec.

The exception is the Auto filtering of Aftertouch during recording for which you do not need to click the Auto box.

You can filter all Controllers or select one by number. Two events are always filtered out -Active Sensing and All Notes Off. We mentioned All Notes Off last month

Active Sensing is a message put out by certain instruments about three times every second saying 'I'm here!'. If a device receives an Active Sensing message and then stops receiving it, it assumes there's been a break in communication and switches off its notes. Some instruments may also reset to power

up status. This can cause a lot of confusion so Midistudio filters out Active Sensing messages completely.

We covered quantisation in the first tutorial. Quantise

> The Incr/Decr All By area lets you add or subtract a value to all the notes in a Phrase. It keeps the highs and lows the same but alters the overall velocity level. Alter the value by clicking or dragging the slider

The Abs Level All At will set the velocities of all the notes in a Phrase to the same value. This has Auto and Exec boxes which work in the same way as in other functions, for recording or immediate use.

The Rand box on the right will randomly

allocate velocity values between lower and upper limits to a Phrase. This can help humanise a music line, especially drums,

The Scale function produces a gradual change between two velocity values. The change runs from the start to the end of the Phrase. Use it to produce a fade in or fade

This transposes the pitch of all the notes in a Phrase and works in a similar way to the

Scaled

Control

Incr/Decr Velocity function. This works in a similar way to the Scale

Velocity function You must specify the Controller number,

how often it is to be inserted in clicks and the values it is to be scaled between. For example, the following would produce a fade in:

> INSERT CONTROLLER 7 EVERY 6 CLIKS FROM: 0 TO: 127

As this is volume as opposed to velocity data, the fade in would be shown by the faders on the Desk. Some instruments use Controller 10 and 11 to produce pan and brilliance effects.

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Only

ast month we got our program to the point where we could display bats on the screen by pressing keys, and the ball could move horizontally or vertically, as long as we told it by amending the initial values of the X and Y velocity before assembling the program.

This month we will finally get to interact with the game, by allowing the ball to bounce off the bat and so change direction

For convenience. I will call the two different types of bat we are using Left Bat and Right Bat. The Left Bat is displayed by pressing the Z key, and slopes down from left to right (\). The right Bat is displayed by pressing the X key, and slopes down from right to left (/),

Velocity

The ball could hit either bat from any of four directions. The table shows the effect on the balls X and Y velocity for every case.

If we were going to be really clever about it, we could write a very short rou-

tine which handled every case. Essentially, we would just need to swap the X and Y velocity, and multiply

by -1 if we were travelling left or up. Programming, like life, is never so simple. There are other things to be taken into consideration. For instance, if the ball is travelling along an edge when it hits a bat, and the bat forces the ball into the edge, the ball effectively needs to bounce three times - once from the bat, then from the wall, and finally from the bat again.

So I've taken the easy option (as ever). The check for what to do when the hall hits a bat is done within the routine which checks for wall collision. Fach

Marc Young finally gets his balls under control and the Game with No Name shapes up

73757

Programming the 68000

check is performed individually, for each direction, and for each hat

Although this may seem like the coward's way out, it certainly makes the program easy to follow, and also means that should you wish to add any further features - such as different shaped bats etc - adding the code should be relatively simple.

Longer

The only real disadvantage is that the assembler source is somewhat longer Now we can control the ball as it moves around the screen, simply by

The next enhancement to our Game with No Name is to give ourselves something to aim at. Two major changes

positioning the bat correctly.

need to be made to the program at this stage - we need to show a target on the screen, and we need to be able to detect if we have hit the target. In true Marc Young fashion, I'll cover these in reverse order!

The routine targ target is executed when a target is hit. This routine handles the display of a new target at a random position, as well as the erasing of the target we have just hit.

The first action taken by the routine is to clear the byte in the squares table. This table, if you remember, holds a different value in each byte depending on what is shown on each square on screen

Zero means nothing is on the square, one means a left bat, two a right bat

and three a target. Next, the routine erases the target from the screen. This is done by executing the subroutine

undraw tet.

This routine is almost identical to draw tgt which is described below. The only difference is that the undraw routine draws a sprite of a background square, whereas the draw routine draws a sprite of the target

Now we need a random number, to determine the new X and Y co-ordinates of our target. Luckily the ST's operating system again comes to the rescue with XBIOS 17. This splendid system routine will return a 24-bit random number in

Co-ordinates

Of course, a 24-bit number allows a value of between zero and 16,777,215. For our X co-ordinate, we need from zero to 19 and for the Y co-ordinate, from zero to 11.

We could just take the low byte of D0, then call the Random routine again, and use the low byte again.

Unfortunately, the XBIOS routine is not exactly lightning fast, and there is a better way of handling the situation. The low byte of D0 is moved to D2.

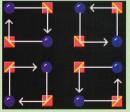
which will be used to hold the grid X coordinate. The two word halves of D0 are then swapped, using the SWAP command, so that the high word becomes the low word and vice-versa. The new low byte of D0 is then moved to D3, which will be used to hold the grid Y co-ordinate.

At this point, D2 or D3 could contain any value, as we have only affected the low byte of either register. To limit the values to those within our grid, I have used the AND instruction. ANDing D2 with binary 11111 has the effect of lim-

Bats and balls

The effect of the ball hitting each of the two Bats from each of four directions.

Bat	Initial X	Initial Y	Final X	Final Y
Left	1	0	0	- 1
Left	-1	0	0	-1
Left	0	1	1	0
Left	0	-1	-1	0
Right	1	0	0	-1
Right	-1	0	0	1
Right	0	1	-1	0
Right	0	-1	1	0



ball meets bat. This diagram illustrates each e detailed in the accompanying table

iting its value to between zero and 31. ANDing D3 with binary 1111 limits its value to between zero and 15. We still need to adjust these values if they are outside the width and height of our grid, and this is performed over the next few lines of program using the CMP instruction

It is worth noting here that this use of ANDing values to limit their range. while being efficient, does mean that, should we change the dimensions of our grid, the values used may need to be changed.

Amendment

For this reason I have included the two binary values as EQUs at the top of the program, to make such amendment more obvious

Having finally got our new co-ordinates, the subroutine draw_tgt is executed to draw the target sprite on-screen. Finally, the value 3 is moved into the correct position in the squares grid, so that the appropriate routines can check whether the ball has hit a

If you've loaded the source code of PROG0016 from the CoverDisk, you may have searched for the subroutine targ target.

If you did, you will have discovered that there is one BSR to the subroutine at the very start of the program, then the routine itself, and only one other reference to the routine. Rather than the other reference being a ISR, or RSR or even a IMP BRA RNE or similar it is in fact used to define a value in a table called

targ addr. If you take a look at the table targ addr. you will see that it consists of four values of Long Words, the first three being targ end and the last being

targ target If you now take a look at the subroutine target, you will see how this table

is used The subroutine target is executed whenever the ball completes a journey from one square to the next, in what-

ever direction Following the routine through, it firstly gets the value of the byte within the table squares corresponding to the position of the hall, into data register D1. It is worth noting that the whole register is cleared first, as only a byte is

Register

moved from the table

Next, the address of the table targ addr is loaded into address register A1. The value in D1 is then multiplied by four, by shifting the bits left by two remember each shift left multiples by two again, so shifting twice multiplies by two twice, which is the same as multiplying by four - trust me, I'm a doctor (no you're not - Ed).

So, now we have the address of the start of the table in A1, and the value of

147/34 1/ C

the byte of the square we have just arrived at (multiplied by four) in D1. So. what next If you think about it logically, each value we could have in the table (0 - blank 1 - Left Rat 2 - Right Rat or 3 -Target) has been translated into 0, 4, 8 and 12

If we were to add this value onto the address in A1, this would point us to the value at the appropriate position in the table of addresses

We could then jump to this address, and perform the appropriate routines depending on the contents of the square. This is essentially what the next couple of lines of code achieve. The instruction:

MOVE 1 (41.01) 42

adds the contents of A1 and D1 and moves them into A2, without affecting the value of either A1 or D1.

The next line:

IMP (12) jumps the program to the address held in A2. An important note here - don't try:

(A1.01)

as, although this will compile, it will certainly not have the same effect! In fact it will almost certainly crash your cm

Obviously, with the limited ontions we have in our Game with no Name. the use of this Jump Table is a little over the top. The only other options beside the target are the two bats or an empty square, and in all of these cases, we want to take no action, so the code jumps to the end of the routine (targ end)

However, if you want to add new routines, for example different types of target, or maybe different bats, it is a simple matter of writing the code required, and adding the address to the table

Next month Next month we'll finish off the

Game with No Name, and I'll cover a few miscellaneous bits and nieces

If there is any aspect of assembler programming you would like me to cover in the future, why not drop me a line at the 'User office.

Drawing a target

When it comes to drawing a target, most of the work is a duplication of the routines we have already used for drawing the ball or the bats. If you look at the routine draw tgt you may recognise quite a lot of the code. The differences, however, are important and worth working through.

The first line of the routine is:

MOYEM.L 02/03.-(SP)

This moves the contents of both D2 and D3 onto the top of the stack. If you look at the last line of the program, you will see:

> MOVEM.L (SP)+.02/03

which moves the top two Long Word values from the stack into D2 and D3. The net effect, of course, is to preserve the values of D2 and D3.

This is required, as the BLIT routine, which is used by this routine, would change the values of D2 and D3, and both are required after the draw tgt routine

The next two lines of the program select the sprite to be drawn. If you haven't looked at the SPRITES.PI1 file recently, it may be worth loading it into your favourite art package and taking a look. Two things have changed. Firstly I have added a

sprite for the target and a sprite for a blank square. Also I have changed the palette slightly, and used the new colours for the target

It is not particularly important to keep the effect of a semi-transparent ball as it travels over a target, as the target will disappear when hit. Therefore, I have simply picked some colours I liked, and allocated them. The lines following simply set up the registers ready

for calling the Blit routine to display our sprite on the screen screen 2.

Just before executing the Blit routine, you will notice the line:

> MOVER 1 00-07/40 -(SP)

As you may gather, this instruction moves the contents of all the data registers and address register A0 onto the stack. Take a look after the Blit has been exe-

> MOVER I (\$2),00-07/40

This instruction restores the values of the registers, but does not adjust the stack pointer.

The reason for this strange behaviour is all down to the use of multiple screens. To avoid flickering. we need to display our target on the visible screen, the work screen and the master background screen

To save any delays, having set up the registers once, they are saved to the stack and the A1 register adjusted - A1 holds the address of the screen to be displayed to - as the Blit routine is executed a total of three times

After executing the Blit for the second time, the MOVEM instruction is used to extract the registers from the stack, but this time the stack pointer is adjusted, as we will not require all the registers after the third Blit.

However, we will require the values of D2 and D3, which were pushed onto the stack at the start of the routine, and these are taken from the stack before the

As I mentioned above, the undraw target subroutine performs much the same functions, but instead of drawing a target, it draws an empty square.



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Public Domain

Programmed by: Toby Liddicoat and Robert W Dytmire (respectively) Goodman International + Disk No. GD1667

Two games comprise this disk from Goodman International, Squidgey is a puzzle game in which the objective is to clear the screen of stray blocks.

Unusually, this game makes use of both mouse and joystick. When started, you are presented with a screen containing various patterned blocks scattered

You can then use the mouse to choose a specific patterned block which the game character, named Squidgey, will push at the stray blocks and if they match, the stray block will be cleared from the screen

Clearing the screen of stray blocks completes the level, with later levels becoming more difficult.

This is a simple game and I have to say I got quite bored with it after a very short while despite the fairly good graphics and digitised speech effects.

The second game on the disk - Mrs Munchie - is a lot more enjoyable. It is a Pac-Man type game with lots of extra features, and it requires 1Mb to run.

Some of these extra features include



"S'cuse me quy, fancy some cheap software? You do? Then let me show you some real bargains that won't bust your bank balance or burn a hole in vour sky rocket."

Zaps which are like smart bombs and kill all creatures on screen. There aren't that many though, so you have to use them

There are also various Trap Dots which appear that have various and random effects. The effects range from adding more creatures to the maze to

the Super NOVA, which kills everything on-screen and eats all the dots. This game may be based on an old classic, but I enjoyed it.

SIAM Railway Dems

Programmed by: SIAM Ltd Goodman International + Disk No. GD1662

These programs apparently allow you to experience the challenge of railway operation from the comfort of your own home. Well I travel to ST User on a train

wind in a spacesuit. Maybe it's because the particular route I travel is serviced by antiquated, uncomfortable carriages but I wouldn't wish the experience on anyone, apart from that annoving bloke in the mouth-

every day and I have to say the whole

process is about as enjoyable as breaking

wash advert who keeps saving, "Still Anyhow, enough banter and on with the review. This disk contains a collection of railway-based games that attempt to simulate the problems and

challenges of running a railway. Authentic track plans, motive power and schedules for the location and period are implemented, in some cases with additional workings to add extra interest

I can't honestly say I found these



have never had any interest in the field of locomotive vehicles whatsoever

However, train spotters and rail enthusiasts may find it interesting.

> Another little C editor

> > Ralf Kaufman Riverdene PDL + Disk No. 1022

There are many PD text editors out there in use by C programmers. Some are absolute pap, others are very good. ALICE is one of the good ones

ALICE provides a simple, GEM-oriented package for entering source code

ENT ON SERVICE ENT





Where to get them ...

- LAPD, 80 Lee Lane, Langley, Heanor DE7 7HN Tel: 0773 605010/761944 MT Software, Dept STU, Greens Ward House, The Broadway, Totland IOW PO39 0BX. - Tel: 0983 756056
- Goodmans International (Dept STU), 16 Conrad Close, Meir Hav Estate, Longton, Stoke-on-Trent ST3 1SW - Tel: 0782 335650, Fax: 0782 316132
- Riverdene PDL, 30a School Road, Tilehurst, Reading RG3 5AN Tel: 0734 452416. Fax: 0734 451239
- Arrow PD, 6 Kents Orchards, Perry Street, South Chard TA20 2QB
- STE Club. The Lodge, Delly End, Harley, Witney OX8 5XD

and although its name suggests that its main use would be for C source code entry, it's equally usable for creating any Ascii file

Although ALICE may be simple, it does have some good features such as, simultaneous editing of up to ten text files, each in their own window, additional texts may be held in cut/paste buffers, comprehensive block functions, search and replace and operates on all ST/STE/TT computers.

Anyone looking for a good, simple text editor will find it in this program.

Address Banks

Programmed by: David Potter I APD + Disk No. I 17

Address Banks is a very easy to use database for names and addresses which also has the facility for printing address labels

Written in GFA Basic, it is fully mouse controlled allowing easy access and retrieval of address cards

There is a password system to restrict access to any particular address file and also a search facility for locating any particular word or combination of letters as parameters.

LAPD + Disk No. U.48

There are many packers available to help save space on disks and this collection from LAPD seems to have all the best packers available in the public domain. The nice thing about this collection

though is the menu system which provides many useful functions. Besides giving you a menu of the 13

packers on the disk, there are also some basic disk operations built in.

You can create folders, rename files and delete files. You can also set the internal clock or find out how much

memory you have left in your computer. The menu system also allows you to run the Revenge document displayer



Please make unur selection!

GFM-driven interface m. the packing ess easy and



and a multi-depacking program for decompressing any packed programs.

The Northern and

Programmed by: Peter Haque Goodman International + Disk No.GD1666

This is one for the budding Patrick Moore's among you. This program contains masses of information on star constellations

When you run the program, you can choose a constellation. Once chosen. the program draws the constellation and provides a brief description of its

history. You may then click on any of the objects within the constellation and the program gives you the name or number of the object, for example beta Orionis

or NGC 6853 If available, there will also be more information and data displayed on the selected object. Some of the data provided includes ly - the distance of the object from Earth measured in light

years, App Mag, the apparent magnitude, or the brightness of the object as seen from Earth and Spec. which is the



Great sound effects, good

spectral class of the object. This program is a must for the budding astronomer and is a great learning aid in recognising the constellations as well as gaining an insight into their his-

gran Z

tory and composition.

Programmed by: Martin Brownlow, Music by Dave Gymer LAPD + Disk No. G221

According to the blurb, many years ago, a being known only as the Enemy appeared in out universe from parts unknown. It tainted the hearts of men and from these men, a new empire arose

to challenge our society. An attack was launched on the Earth and was only stopped from destroying the mother planet by a single fighter

craft codenamed Grav. The Gray pilot destroyed the Enemy's followers' two base planets, but the Enemy escaped back to its own dimension.

Now, from the ashes of the old empire, a new force has arisen. The forces of the Earth had grown lax and ignored the build up of weapons and

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prices and have introduced a new and custom written catalogue program of their stock The catalogue is free of charge

and can be obtained by phoning. writing or faxing them at the address given at the end of these

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If you do send any of your titles, please try to adhere to the following steps to ensure that I can quickly assess each contribution. 1. Include a list of the contents of each disk along with a brief description of the program

ve an up to date list of your

bases on the outskirts of our galaxy until it was too late, the empire had returned.

Pretty nail biting stuff eh? This is the sequel to the "thrust and fire"-type game called Gray which had you controlling a lander type ship which required you to rotate the ship and activate thrusters in order to manoeuvre. It was a tricky control method at first, but you soon got used to it.

Gray 2 has even more features than the first with such additions as secondary weapons such as Bombs, which can take out several installations in one shot. Defence Lasers, which destroys all nearby projectiles and Computer aided retros which aid you in controlling the ships descent.

These are just a few of the weapons and defence systems available and can be bought from the Shop section of the game (for a fee of course).

The aim of Grav 2 is to disable the enemy base. This is achieved by destroying 80 per cent of the emplacements, but some levels have specific objectives, such as destroying cargo canisters

If you find a enemy computer on a level and land next to it, the computers database, containing information and position of other bases, is downloaded and your position is recorded so if you lose a life, you will start from the last recorded position.

The graphics are quite good and the sound effects are monstrous, digitised explosions. I spent hours playing this game, it's brilliant. Lots of features, excellent gameplay and hideously addictive

Upgrading your RAM

Entertainment

Budding

Moving

t some time or other there's a good chance that you've wished that you could use PC-compatible software on your ST - there are many reasons why you should want to.

Maybe you just wanted to use one of the many complex packages available for the machine, or perhaps when office work's been piling high you've wanted to catch up at home - right?

A pretty cost-effective and easy answer to both of these problems is an emulator. Basically they convert the ST into the industry-standard machine, enabling it to run many PC programs. The great beauty, however, is that your favourite ST programs can still be used.

PCs come in various shapes and sizes and so do emulators. During the years as technology has evolved there have been several types of PC.

From the days of XTs, PCs are now powered by 80X86 chips and known as PC-ATs. They started with 80286s, then came 386s and today 486s. Even now 586 PCs are just around the corner. For the user, the most noticeable

change throughout these developments has been speed, with faster computers allowing more powerful software to be

But it isn't as simple as saving that, for example, a 386 PC will be faster than a 286 model. The clock speed of the chip

must also be considered. This makes the whole situation confusing and so it has become common practice to measure the PC's speed with a Norton factor rating the higher the rating the faster the computer. You can choose from several boards, but the ones we are offering at knock-down prices all come from German firm Sack Electronics and are supplied with a copy of the DOS operat-

ing system. With them fitted you'll be able to use Lotus 1-2-3 and Excel. AutoCAD. dRase and deskton publishing king Pagemaker. It's possible for each to be fitted at home, but if you don't have experience with a soldering iron you could run into difficulty. We recommend novices use our fitting service.

PC Speed

The oldest of the bunch, but still a big seller. PC Speed emulates the first PC-XTs and has graphics displays, including CGA mono and colour. Hercules and



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All features great and small

There are countless other ways of making your ST faster, friendlier and more reliable. Here are a few suggestions

 Generally the STE is very reliable. but there is one component that is more susceptible to damage than most and that's the power supply.

If your STE's power supply has given up the ghost, don't despair, ST User can provide you with a replacement unit which is even more reliable than that supplied by Atari.

· For the security conscious - or downright paranoid - among you, ST Secure is a hardware/software combination which will prevent unauthorised access to your machine

Installation takes only 30 minutes and once installed, it provides a Password protection function.

· When you turn on your STE, the operating system uses the internal disk drive to boot from. With the A/B Switcher and little modification, it is possible for those of you with an external disk drive to tell the ST to boot from the external drive

Olivetti. With a Norton factor of 4, it is sufficient for basic work such as wordprocessing.

ATSpeed

Running from an 80286 processor at 8MHz. ATSpeed has the advantage of being able to run more PC software than its XT brother. ATSpeed can be

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The Straight Fax software allows the sending and receiving of faxes, it will also send Ascii text, GEM IMG images, Degas PI3 or PC3 files to a Group 3 fax

Printer drivers for Calamus and PageStream are included, which allow direct file output from either to be sent by Straight fax. It also features multipage documents up to 255 pages, fine and normal resolution fax modes and 100 number fax phone list.

It can schedule fax transmission at a delayed time, and receive faxes while waiting for scheduled outgoing fax documents.

run from GEM as a desk accessory and in addition to the graphics displays available in PC Speed is capable of mono EGA and VGA.

ATSpeed C16

With a Norton rating of 6.7, it solders on to the ST's existing Motorola CPU and is a solder-free fit on

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There are plenty of upgrades to choose from - doublesided disk drives, extra memory, accelerators, in fact almost anything you could think of.

So why not better your ST - you won't find a cheaper or more convenient service anywhere.

Mega STs. The latest board is an upgrade of ATSpeed, and takes PC emulation as far as it can go before it becomes too expensive to remain

a realistic alternative to the real thing. Improvements to be found are increase in chip speed to 16MHz and the option to plug an 80287 maths coprocessor on to the board, making mathematical-heavy applications such as computer-aided design programs

ATSpeed C16 is the most suitable of the three for anyone wanting to use the PC equivalent of GEM, Microsoft's Windows, Without Windows, beginners can find PCs a nightmare to use, with long commands needing to

be typed at prompts. It has a Norton rating of 8.2.

better drive

Nowadays, STEs are sold with internal 3.5in double sided disk drives with a 720k capacity as standard. However, earlier STs had drives fitted with single sided drives with half the space.

Nearly all cover-mounted disks require a 720k drive to give access to all the programs on them. This is also true of many games software houses who are now putting games on double sided disks.

The reason behind this policy is that magazines and software companies have

Turbo TOS It's a well known fact among ST users

that the operating system, particularly the Desktop, has a few problems and niggly omissions. Many third-party programs attempted

to provide a replacement for the Desktop such as NeoDesk and DC Desktop, but these took up a lot of memory.



With TOS 2.06, you can place files and folders directly onto the Desktop similar to the NeoDesk feature

TOS 2.06 is the hardware solution and gives lots of extra features found in the third-party versions that make using your ST more enjoyable.

TOS 2.06 was at one time only available on TTs and Mega STEs, but now it is available for all machines in the ST range. Some of the main features of TOS 2.06 include:

· Menu options have a keyboard equivalent for quick selection and can be altered

Assign programs to the function keys to allow quick execution at the press of a key

to your own preferences

· Twenty programs can be assigned to the function keys for execution at the press of

a key · Files and folders can be dragged onto the Desktop, similar to the NeoDesk fea-

 The Desktop and windows can be spruced up by assigning colours and patterns to them

• The maximum number of windows open has been increased to seven

· There is a Search facility for quickly finding the location of a particular file · Hard drive owners do not need to individually create a partition icon any more. Simply select Install Devices and icons for each partition appear instantly

 Atari's Xcontrol accessory is completely compatible with 2.06. No need to shut down when changing resolutions any

There are, inevitably, some programs



Change the pattern and colours of both the Desktop and the windows

that will not be compatible with this new TOS version. This is most notable in the games sector.

The majority of well written, professional software which adhere to Atari's programming guidelines will have no problems.

Some PD will also fail to work with TOS 2.06 but if a program has been written with TOS 1.62 in mind, it should be fine running with TOS 2.06.

Upgrade service

to cater for the majority and unfortunately, single sided drive owners are in the minority.

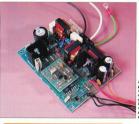
ST User's CoverDisk is also geared towards those with 720k drives and although we offer a single sided disk service to those with single sided drives, it is obviously a drag to have to post off your CoverDisk and have to wait until it

So, why not take advantage of ST User's affordable solution, a double sided drive upgrade for you're ST?

Better with a blitter

Mega STs and all STEs have a blitter chip installed as standard, speeding up all operating system graphics routines such as screen redraws, window manipulation, dialogue box drawing and all other GEM graphic processes.

You will notice a "snappier" feel when using the Desktop and other graphical applications, such as scanning packages, will also benefit from this extra hardware



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One; two. music

Taking your first steps in Midi need not be an expensive move. Phil Morse looks at a package which promises features as well as value for money

he computer musician is spoilt for choice when it comes to software, and nowhere is he or she more spoilt than in the ST market. With its built-in Midi interface and some (belated) marketing in the right direction from Atari, there are a glut of music packages for the ST, ranging from some pretty basic PD stuff to the big boys like Cubase and Notator, which can be found - along with the ST - in professional recording studios worldwide.

However, the musician on a smaller budget is left with slightly less of a choice. Lower prices have always meant compromises, and there's nothing worse than having equipment which is capable of so much, but being let down by basic, unreliable or inappropriate software.

Which is where Concerto comes in. Priced at a highly reasonable £39.95, Concerto aims to provide a full package for any Midi musician, losing nothing except the high price tag. It certainly seems to boast a lot when it comes to the features available, but more of that later.



The package comes in a game-size box, complete with two disks, an advert for other Microdeal products and a 96page manual, which is plastic ringbound and clearly written and presented. A 1Mb ST is recommended, and the program will run in medium or high resolution.

The program boasts five separate editors, which translates into five different ways of manipulating Midi information - quite a lot by any account.

The score editor uses traditional musical notation, which is not, I feel, particularly useful to the average modern musician, for whom musical notation tends to be something left to the classical and jazz crews.

Nevertheless, this is a pretty wellendowed editor, which allows you to define time signatures, place notes from demisemiquayers to semi-breves straight onto the stave, alter the phrasing of the piece by using slurs and the like, and incorporate Midi-specific information

such as program changes, which usually tell your keyboard or the instrument currently playing.

sound module to alter The step-time editor is useful for when



you wish to enter music a note or chord at a time, and can help when entering difficult passages or, as the manual suggests, if you do not actually own a key-

Most Midi users will, of course, have a keyboard, but if you buy a dedicated sound module - such as the new Roland Sound Canvas - there is just the chance that you will be wanting to control it solely from software. Not recommended, but it takes all sorts...

The basic idea is that you scroll to the position on the stave where you wish to

Product: Concerto Supplier: Microdeal, PO Box 68, St Austell PL25 4YB Telephone: 0726 68020 Price: £39.95 Configuration: All STs and TT

enter the note or chords, define such things as velocity and note length, and then play the note(s) on your keyboard.

There is an on-screen "keyboard" which you can click on with your mouse, should you be one of the strange folk who feel a keyboard is not necessary, and you can, of course, delete notes(s) should you make a mistake.

The drum and grid editors are very similar - the difference lies in what they do, not how they do it. These are the editors most useful for those who don't

Most Midi instruments which contain drum sounds now follow the Roland standard of defaulting to Midi channel 10 for drums. This means that, however complex or simple your drum patterns are, they will all be played by channel 10.

Midi can cope with this, but sequencers frequently fail to provide any special facilities for editing the mass of information cluttered onto this one channel. Even the excellent Sequencer One from Gadgits fails in this department.

However, Concerto's drum machine window is a definite step in the right direction. Down the side of the screen are the various percussion instruments (which you enter in the synth window -

more on that later) and from left to right the screen is a grid showing you the various positions in the songs (again it is scrollable) and which drums are programmed to play in these positions.

There is a very useful zoom function. which allows you to alter the size of the

Say you have a very complex hi-hat and bongos section in your song. You'll want to see these small, frequent notes with the highest magnification possible, to make it easier to alter them. The downside is that you'll only be able to fit a very small part of the song onto the screen at any one time, so will have to scroll a lot. Should you have a simple drum pat-

tern, you can reduce the magnification, so allowing you to display more of the





Live mixing is possible in Concerte

song at the same time, sacrificing a level of clarity which is not necessary anyway. As mentioned earlier, the grid editor window is practically the same as the drum editor, except it concerns itself with the other instruments.

The drum list is replaced by a vertical "keyboard" down the left-hand side of the screen, which shows which notes are being played. Where they are played is, again, shown by their horizontal positioning.

There is a position counter, fiveoctave range, crosshair positioning of notes (as with the drum editor) and various other edit modes.

There is another editor too, called the event editor. This displays all the Midi information in words. Ouite why this is included, bar completeness, is not mentioned - I can see little reason for the

Sample city

Only applicable to STE (or TT) owners, the separate sample program allows you to incorporate digitised samples from elsewhere within your Midi creations, playing them just as if they were another instrument

The program, Sample Studio, allows you to load samples, sort out and edit a sample list and save out the results for use within Concerto

Here is no place to go into the dos and don'ts of sampling, but a variable sample frequency would have been useful - as it stands, you are tied to a respectable 25kHz.

This is fine if you are doing your own samples, but indicates what may already be obvious - that this is a very basic piece of software, and one which is intended for use alongside a dedicated sampling package.

inclusion of such a feature - but should there he some earth-shatteringly important reason which has alluded me. I'll describe it anyway.

You can't add information from this mode. but you can use the mouse to edit existing information or delete it. You can instruct the sequencer to list just certain types of informa-

tion too - should you wish to see just the tempo changes or the pitch bends, for instance, it can be achieved easily.

Cast your mind to the word "sequencer". Although this is used to describe the piece of software which controls your Midi equipment via your computer, quite literally it means putting things into sequence! The Arrange Window in Concerto is where

you do just that. You can order various recorded musical patterns, which you will have assigned numbers to and named in the Main Window, as well as adding effects such as delay and transposition (pitch changing).

Other features include a mixer window, quantise ("the only reason I bought a sequencer," as one musician friend told mel), full handling of a variety of Midi/Concerto file types, and a Midi Strip function, which is useful for removing, say, over-zealous pitch bends in a piece.

This is, without a doubt, a comprehensively-featured package. As the software house claim, it does indeed provide a variety of features usually found only on far more expensive programs

At less than £40, this is very likely to be an entry-level package for many folk. especially those with just one synth or module. Hence facilities like the ability to handle up to eight synthesisers seem

Editing and processing features

Programmable tempo change

In order to add expression to a piece, you can speed up or slow down a phrase or part of a phrase using this feature.

Programmable volume change

Again, the volume of phrases can be changed in order to add a realistic feel to Midi information - essential should you wish to get away from the often mechanical feel of sequenced

Search and replace

Allows you to select a pitch of note and change just the notes which correspond to your chosen pitch. This may sound a little unnecessary, but it is particularly useful for Midi drum tracks, as you can alter "notes" which, as each drum is effectively a different note. Will allow you to, say, swap a snare sound or change a cow bell to a bongo throughout a piece.

Allows the filling of a section of a pattern with a specified note - again, useful when programming drum patterns.

Force

"Forces" information regarding a note to a specified value. Say you wish a piece to have uniform volume, or be at a uniform pitch, or you wish all the notes in an imperfectly-played phrase to be the same length, you can utilise this facility to add mechanical feel to a piece.

Although one may question why you would wish to do this, house and techno music relies heavily upon just such mechanised sounds and phrases for its distinctive, danceable uniformity.

Transpose If you wish to make a played piece

higher or lower, this function will allow you to do this. A neat trick involves playing a piece in the key of C (ie no need to press those difficult black notes on your keyboard!) and put it into a more suitable key (ie E if you wish to iam along on a guitar, or the correct key for a brass instrument) after playing it.

to be a little out of place. It's this kind of blurred idea of exactly who will be using Concerto which is my only qualm about

At this price, a package going all-out for extreme ease of use while ditching some of the more complex features might have been more appropriate. After all, most home studios are used for playing about, or for putting out a passable demo of a track, which will then be produced in a studio using professional software

costing much more, such as Cubase. With Concerto's degree of sophistication. I believe the beginner will struggle to get anywhere for a while, and will not use some of the features frequently, or

But these are small piffles, and all based

on the assumption that it is only beginners who are desperately poor! With so many features, most of them well-implemented and many extremely useful, and some innovation thrown in too, it would be churlish to complain too much. For a mere £40, Concerto must be the best value Atari sequencer ever.





The synth window This is an extremely useful feature

The Synth Window allows you to different synths, effectively meaning eight synthesisers or equivalent

By copying the information in our tone bank table, which comes

machine, the sequencer can remem ber which instruments are assigned Thus, instead of "81", whenever that instrument is referred to within

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84	3 AUTOGEM autoboots any Gem program when beeting. XFORMAT2 extended formatter & VC Spreadsheet.		atmospheric images. Various borders, tints etc. High arry & cartoons - Picasso to	782	UNDER BERKWOOD massive graphic adventure NAVAL BATTLE A good version of the good old Battleships HARKIS WENT SKING, '5'		HYPEKTEXT: Shareware prog suitable for the production very professional documents. Simular to a DTP but in flexible, pics & text easily mixed on screen "MD"
74	S STAR LC-10 UTILITIES. PRINTER corning utils for 1st WORD & 1st WORD PLUS. TRANSPORT 90 download alternative	527	small fluffy arimals.	783	CHESS,MONOPOLY, BACKGAMMON, LASER CHESS	458	TETRIS Classic 2D turnbling blocks game that's highly ad tive(MONO). PUZZLEMANIA: Multi level mayben, high
		732	IMCSHOW, IMCVIEW show progs. Various fruit, over 20 arrows & Access symbol.	709	CORE WARD, You have to write rival programs. VIRUS, a game with great graphics and sound."S*		tive(MONO). PUZZLEMANIA: Multi level mayben, his addictive puzzle game wher you have to plan your
74	the Star LC-10 multi-font printer. 6 SUPER VKILLER detects 5 different viruses,recognises 7 anti-	733	Occasional Clips, Various Characters etc, Loads more fruit, Vegetables.	433	FLYOVER, a bombing raid game.		around the maze, turn on the generator and trap droids (COU)
5	viruses & 133 other types of boot sector.	235	Herbs & Kitchen parts.	405	GLOB, you collect cherry cakes while avoiding pursuers. BOXING CHAMP, 'S'		
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TOP DOO, Goey-beed for prediction system.
BLACE MANN, Advanture with very rose graphics. Destroy
for Load Chase of the Mendison. "On
the Charles of the Mendison "On
per nose is no print option. EPT UP, over 30 quantions is
such & to set your sknowledge on nose signs & systemic. Both

Mendison."

shareware.

MASTERTIME, Educational Shareware program to teach the
time with Digital & Analogue clock options. The difficulty
level is graduated.

RAMWORLD, SD World & Object creator & viewer released.

as shareware.
COLLECT, vertical and horizontal scrolling game. Butle the

technical utility for utilising & minimising memory usage. N_SYSCOMI.1, use to see Gendos, Bios, Xhios & Gen actions your computer is deing on screen. + much more. HPCH80/ME, This program prints Dogsa & Neo pics in colour.

on HP Desket printers.

SLAYER. The game is not like a standard text adventure whatsoever. It has over 550 locations, no verb input and over 50 different endings. Does or disk '2".

PLOTTING, full instructions on the disk. Comes with a

construction option. Eliminate blocks by hitting them with the

same matter floor.

In WORD IMO FILES 188 * Imp (iii.e. A para selection. Sounding for environ. control of L. G. Rebenso. Control of the WORD IMO FILES 189 * Imp (iii.e. A para selection. Sounding for environ. control of L. G. Rebenso. Control of the Word Imographic Control of the Control o

game glayed with 14 tools & 26 beack. NIBILLERS, Et always at the blockil, the present who sets the last piece is the loost. QUEEN ("5") Based on the moves of the Queen in chess, player verses computer. SOILTAILER, simple variant. TRAFFIC JAM. Corried London's traffic lights.

H.A.T., goal 31 is a row failing block game (STE only).

MISTIC WELL, Dangocomister type adv. MYSTIC WELL, Dangeonmaster type adv. MINDLOCK, Trivis quiz game, various selejects STE only, "X" ANABCHY ACADEMY, great 3D shareware game. T-GAME, good falling block Tetris type game. GRANDAD & THE QUEST FOR THE HOLEY VEST, the

JOLENCEI, vertical scrolling shoot 'em up in the Xenon mould.

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STAC, The ST Adventure Creator, now PD.

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program selector etc. [IGGERS, a strategy game of coloured squares to make you THE BRADNESS CROSSWORD GENERATOR V2.3, find

weed matchies in part-cerepteded crossweeds or energy, consonous, Schwerter, and the consonous participation of the consonou

apoblity, Sharoware. IODEL, an intelligent maths peogram, Sharoware. It can

GODEL, an intelligent maths program, Shareware, It can manipulate arthmetic & olgebraic expressions ext. EFF, The Ultimate Backing Track Creator. Create your own backing tracks. Various parameters can be selected & set with stall midd support with documentation en disk. "ONE COH CRICKEY WHAT A SCORCHER, damo by The Lost

BOJS, U
"MOD files including player, BLUESONG, EG, HARR, KEFRENSO, MAGNUM, NONAME, REV, WILD_INT & WOTRACK, 'D' COMBAT, You parachuse into open desert and must shoot down the enemy missiles. (Shareware).

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ALBASE VLXX. A good database with help, as somen designer and good other furstern. Pentry of doors or date.

and good other features. Plenty of does on case.

SPIDER SPELL, spelling program for kids. Based upon

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PURE LOGG. VI.1 a logic parair game losed upon Roolean Algoria. Jose in the destinetion program.

NEPULSE VI.1, Sameware generality procapes with an 18 common state of the common st

others.

CHAIN REACTION, is a game of strategy & lack. Shareware.
HARDCORE DANCEPLOOR, demo by the Wild Boys, "DO"
FANTASIA, an interactive demo. STE only, "DO"
QUIZ CONSTRUCTION RIT, design & participate in multiple

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countries. SOLAR SYSTEM GEOGRAPHY: Effects of the sun & moon, on tides, seasons, etc. RODY SHOP: Quiz type human anatomy tutor - the knee bones

COMMUNICATIONS C.7 VANTERM V.4: Excellent multi-function comms program. C.11 BBS: Three BBS systems - Citadel, Starret and Mini-BBS.

DISK MAGAZINES

F.20 etc. D/S LEDGERS #11: Untouchables disk magazine, best on 1mb but will work on St0.

MAGGIE 8th New produced by Delta Force. D/S

14th SQU(RDIC: Programming magazine with many routines (mainly, STOS), DG.

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CUSTOMERS WORLDWIDE ARE FINDING WE ARE THE ONES TO DEAL WITH FOR QUALITY AND SERVICE



composite video output through pin 2.

Scart sockets, every video has a video-

Your video-in input will be one of

at the TV output socket on the back of

BNC-type sockets have two metal.

"lugs" protruding from the metal casing. You will need to connect pin 2

from the monitor socket to the inner

connection of the BNC or phono plue

and then connect pin 13 to the outer

Once done, switch your video to

Aux or Line and you should he able to

record the ST's output directly to your

two types - BNC or phono. If you look

your STFM, this is an example of a

Phono-type connection.

connection (shield).

video

with the ground signal on pin 13. Although your video does not have

in input.

Hi fidelity ST

I'm fed up with the meagre sound quality from my TV when playing games with great soundtracks. I wish to connect my STE to my hi-fi but I don't know what cables I need.

Is it just a case of a straight cable connection or is there some form of electronics needed between them?

B Sykes, Southampton

Connecting you STE to your hi-fi couldn't be simpler. All you require are two phono-to-phono leads

Connect these to the stereo outputs on the back of the STE and the inputs on your hi-fi and you'll have superior sound.

You'll recover

There is much to enjoy in ST User, even though I am one of those subscribers who is not interested in the games content

Consequently, I have acquired a number of extra disks by copying the CoverDisk programs I want and then reusing the disk.

Arising from this, I now have two problems.

1. With the November 1990 issue, there was a drive protection program. The problem is how do I remove the protector from the disks?

There are no instructions with the program text on how to do this and no apparent way from within the program either 2. Copying Harlekin from May 1992,

I inadvertently deleted X ACCS TOS Using the disk editors that I have. I thought I had recovered it but my Michtron Utilities will not allow the file to be renamed correctly (reports "Name clash") and a PD editor runs the program for a few seconds, then throws up the message "This machine is not an STE", scrambles the screen, prints two bombs on the screen and locks up

I have an STEM with TOS 1.0, two 1Mb external disk drives, a CM8533 monitor and a Star NL-10 printer.

I hope one day to be able to acquire more up to date equipment but not for the foreseeable future, so I need to be able to use programs that will work on my setup. So how if possible, do I recover acci-

dentally deleted programs such as X_ACCS.TOS, especially when they are still archived? J F Cubberley, Kent

1. If you are going to re-use your extra CoverDisks, I suggest that you completely re-format them. That way, you can be ensured of a



clean disk and any programs that you save to it will not be fragmented and will load slightly faster

The other alternative is to use a virus detector that will recognise that the boot sector is executable and allow you to kill the program.

2. First some advice. When copying files from our CoverDisk, ensure that the CoverDisk is write protected so accidental deletions are impossible. There are many PD programs that

will un-delete accidentally erased files but I strongly recommend that you invest in HiSoft's KnifeST disk utility. This excellent piece of software has all the facilities needed to enable you

to recover files. I can only assume that your attempts to recover X_ACCS.TOS were only partially successful and that not all the data was recovered.

May I suggest the following course of action when recovering accidentally deleted files. As soon as you realise that you have deleted a file inadvertently, do not attempt to store any more data on the disk.

When a file is deleted, the space it occupied will be overwritten by further data stored on the disk, thereby making recovery impossible.

Always make a backup of the disk

and use the backup when trying to recover the file. If anything goes wrong during the recovery process, you still have the master disk to fall back on

When you find yourself in a position to upgrade your equipment, I suggest that you give priority to upgrading your ROMs? The latest TOS version is 206

Video titles

I have an STFM and I wish to use it to create titles for my collection of home videos

I know there are video genlocks around that will enable me to do this but all I require is to be able to record my ST's output to the video. My video recorder does not have any Scart inputs, which I am told would make things easier, so I presume I would have to make up some form of cable.

I am quite capable of making such a cable and would appreciate any information on the necessary video connections from the monitor sockets output

L Staton, Shrewsbury

The monitor output of the ST gives a

to the videos inputs.

You will also find lots of good quality PD software dedicated to providing different graphic and text effects especially for video titling.

Alien drives

At a recent computer auction, I managed to obtain two disk drives for the Annle Mac.

Is there any way I can modify the drives so that they will operate on my STFM or is it wishful thinking on my part?

E.Smith, Salford

A recently piece of hardware called The Link from ICD Incorporated will allow you to use the drives on your ST

The Link is an external SCSI host adaptor which has a 50-pin Centronics-type SCSI plug which connects to the SCSI out on the back of the drive and is then connected to the ST's DMA port with a simple DMA cable.

The Link also allows drives designed for Amiga, IBM PC and NeXT machines to be used. It comes with the excellent ICD software utilities and is available from Gasteiner on 081-365 1151 for approximately £59.

Multi-aamina

My friends and I are all ST owners and we all practically live next door to each other

Recently, we were at our local computer club and there was a kind of seminar on multi-computer games. The game being shown was Falcon which was being played on two STs linked by a null modem cable.

We would like to know in where we can buy a null modem cable from so

Darren Evans, Advice Service, Atari ST User, Europa House. Adlington Park Macclesfield SK10 4NP

Got a problem?

Is your printer playing up? Floppies behaving strangely? Having problems

loading ZX81 games on your Spectrum emulator? Maybe ST User can help. Jot down your gripe, along with as much information about your set- up as possible, and send it to:

that we can all get together and book our computers up to play this type of game

I Simpson, Shropshire

The most basic of games can be totally transformed into a brilliantly addictive one with the inclusion of a multicomputer facility.

A classic example is Midi Maze, a game which would hore the socks of you if you were to play against the computer.

However, when you find yourself playing against 16 other human players, everything

There are two methods for hooking up computers to each other. One method is to use a null modem cable. as used by Falcon which you referred

The other method uses Midi leads and seems to me the more preferable. The null modem cable method doesn't allow more than two machines to be hooked up whereas the Midi method allows far more.

Both types of lead can be obtained from Silica Systems on 081-309 1111. 3D models required

Better keyboard

I recently saw a Mega STE at a computer show and I noticed the keyboard is different from my Mega ST's keyboard.

Upon close inspection, I noticed that the lead to the Mega STE is the same as the lead on my keyboard.

Is it possible to use a Mega STE keyboard on my computer or are they electrically incompatible?

P Hill, Strathclyde

Yes, you can use the Mega STE's keyboard on your computer without any modifications at all. just plue in and eo.

I can understand your reasons for wanting to change. The Mega STE's keyboard has a better action on the keys and the mouse and joystick ports are easily accessible too.



models and then animate them frame

by frame and save them as a sequence

Paint which is a excellent paint packare and will allow you to touch up and add detail to your 3D animations, Contact Silica Systems (081-309 1111) for availability and price. But it's not an STE!

package which allows you to con-

struct complex seauences and Cyber

A friend of mine recently gave me a disk full of utilities from a PD library. However, every time I boot up the disk, I keep getting the annoying message "This is not an STE".

I am well aware of this fact and I find it strange that someone wrote a utility to tell me this. Please tell me how to get rid of it as it is driving me up the wall.

A Evans, Gloucester

If you check your disks contents, you will see a folder called AUTO. It seems there is a program written for the STF which is in there.

The program is probably one of the many patches which fix the problem of the STE being unable to boot up in medium resolution.

Look for any program marked STE or failing that, just de-activate one program at a time until the message

disappears.

More 3D auestions

Having seen the absolutely brilliant 3D game Cybercon from US Gold, I was determined to learn more about 3D programming. I am fairly competent at assembly

programming but I can't seem to find any decent publications that deal with the maths and programming techniques involved in producing such graphics.

The only book I found was from Data Becker and that was absolute trash. It was extremely badly written and the programming techniques used in the book used the built-in routines of the operating system for producing polygons.

Considering the fact that the ultimate aim of a 3D games programmer is to make the graphics as fast as possible, I found Data Becker's approach totally unrealistic for producing any decent 3D game

Please could you recommend a good source of information? There is only one decent book for any-

C Grant, London

one wishing to learn the techniques of 3D programming on the ST and that is Andrew Tyler's Realtime 3D Graphics Programming For The Atari ST from Sigma Press (ISBN 1-85058-217-31

All examples are written in assembler with an optional disk containing all the source code from the book. Also. Andrew is of the same opinion

as you seem to be, that the ST's builtin graphics routines are just not capable of producing the speed required for a half-decent attempt at a game.

Andrew therefore explains the techniques of directly manipulating the screen and also the techniques of fast filling a polygon.

Falcon games

I have been reading your reports on the new Falcon030 and it certainly looks very exciting.

When the machine is finally released, just how compatible will it be with the current software available for

I have a large collection of games for my and it would be a shame if they were all to become obsolete if I bought a Falcon

I Houghton, Canterbury

The Falcon isn't just an upgrade to the ST giving the same features with extra capabilities, it's a completely new piece of technology.

The extremely powerful hardware inside the machine will provide capabilities far in excess of what the ST

can offer

There will be some compatibility with programs currently on the STespecially with text-based programs but to achieve a higher degree of compatibility would mean sacrificing some of the Falcon's powerful features and would also increase the price substantially. This change in technology is analogous to the jump from the old Atari 8-bit computers to the ST. The power you got from the 16-bit technology over the 8-bit technology was well worth the lack of compatibility between the two.



from Antic software. This program I am very interested in 3D modelling allows you to design and create 3D

programs and animation utilities. Please could you recommend any packages that will enable me to produce 3D models and then animate them. I have a limited budget so some-

afford

I Kane West Sussex

The best package for 3D is CAD3D v2

Not only is CAD3D a great 3D modelling and animation program thing under £100 is all that I can but it's also one of a number of graphics related software packages in the

> Cyber series. Other Cyber packages that you should consider are Cyber Control, a

Crazy correspondence corner

• We sometimes get the strangest of letters in the Advice Service postbag. Just take a look at this example:

Virulent viruses

I have not had a computer for very long (about four months) and I think my computer system has a virus. I have heard that an infected machine can damage your software and I am

very concerned about this I realise there are many known types of viruses so I will list the symptoms in

the hope that you can recommend some course of action. The symptoms are: My once grevish ST is now a blotchy rash-red colour, my printer keeps complaining of pains in it's ribbons, the internal disk drive keeps having coughing fits every time it activates and my mouse has a cold nose.

Is there any hope for my ST or is it doomed?

P Little, Edinburgh

My my, this sounds serious. I suggest a course of psychiatric treatment, and I am not referring to the computer.

Renairs from £93 00 inclusive Free registered carrier pickup and return despatch for ultimate peace of mind, for any repair anywhere on the UK mainland!

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All repairs carried out are covered by free 90 day Fast efficient service, average diagnostic and repair

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Desktop publishing



here's no doubt that colour can make all the difference to a document, whether it's a simple newsletter or a full-blown advert. Getting it there is another matter.

Many ST users think that just because they can colour items on the screen using DTP nackages such as PageStream or paint colour pictures using art programs such as Quantum Paint, full colour publishing is only a hop and a

skip away. Unfortunately nothing could be further from the truth. Colour is a very complex subject - but with an understanding of the way colour works and some knowledge of the tools needed to get the job done, you can get good colour output from your ST.

If you happen to have a colour printer such as a Deskiet 500C or a colour dot matrix printer, you will be able to get reasonable colour proofing output using the correct driver. If you want to print large numbers of the document, however, different techniques are called for.

Single colour

However, cost might prove the final factor. Adding but a single colour to a commercially printed publication jacks the price up considerably. A typical quote for £70 for printing 500 copies of a black-on-white newsletter might go up to £120 with a single spot colour and £170 for just two colours

Understanding the colour process is the first step. Each different coloured ink used in printing adds to the cost.

Black and white documents can be printed with black ink, making them very economic for the home user and part-time desktop publisher.

Colour photographs and illustrations, on the other hand, can involve upwards of 16 million different shades. To reproduce them using an ink for every shade would be impossible.

In fact, they can be reproduced using just four ink colours - cyan, magenta, yellow and black (see "The Nature of Colour" opposite). This is known as four-colour process printing and it requires that the image is separated into four component parts, in order to make one printing plate for each ink colour.

There is another element to process colour - screening. Colour cannot simply be washed on like water colour painting, Each colour is printed in lines of different sized dots and each colour is normally printed at a different angle. fooling the human eye into believing

Andrew Wright looks at ways of getting to grips with colour publishing on the ST

that there are thousands of different shades of colour

The size of the dots, the shape - elliptical, circular or square - and the angle of the lines all play a part in ensuring optimum results.

These colour halftones, similar in appearance to those used to represent continuous tone black and white images, can be seen by looking at colour pictures, such as those in ST User, very closely with a magnifying glass,

Simple

Spot colour, on the other hand, is relatively simple to specify and use. Ink of a chosen, pre-mixed colour is used to print certain areas of a page. For example, a logo, masthead or just a frame can be given a spot colour to make it stand out from the rest of the document. Spot colours can be specified - for the benefit of the printer who will be printing the document - using a number of methods, the most common of which is the Pantone matching system.

Each of several hundred precise shades is referred to by an identification number or occasionally a name such as Warm Red or Rhodamine Red, Charts

are available so that exactly the right colour can be chosen beforehand with a fair degree of certainty that the printed result will match up.

An alternative method of specifying spot colour is to provide percentages on the CMYK scale (see the accompanying panel), Pantone Warm Red, for example, is 100 per cent magenta and 100 per cent vellow.

Up to four different spot colours are usually economic but any more than that and process colour tends to be cheaper. Remember though - every spot colour adds extra cost to the bill.

An increasing number of DTP programs now support colour output, including PageStream, Calamus and Didot Professional,

Image processing programs such as Retouche Professional allow full colour images to be edited and manipulated to get the desired effects, although the hardware requirements - a second colour monitor and graphics card - push it beyond the reach of most of us. The

simplest way to use spot colour in documents is to take your finished artwork to your local printer and point out which areas on the page need which colour.

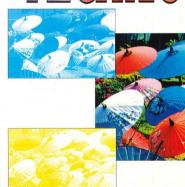
A more professional approach is to overlay the artwork with tracing paper, trace the bits needing colour and mark them up clearly and legibly. The printer will be able to make separate plates for each ink colour based on this information

Separations

Using PageStream or Didot, you can define and mark the various snot colours as you design the page, producing what are known as mechanical separations (similar to the process separations discussed above but only one will be produced for each spot colour).

This does part of the printer's job for him but it's unlikely to save very much on the cost of the job. With process colour, the software can

make the separations, if it is capable, or



the time-honoured method can be used. In the days before DTP and colour prepress, all colour photographs and multicolour illustrations would have been taken to a repro house for scanning on a high quality, very expensive drum scanner.

The result would have been four fully senarated films which would then have

been added to the line art and text to make a full page

Desktop separation methods have come a long way but they still can't match the traditional methods for quality. Probably well over half of all colour images are still processed this way. despite many large publishing houses



but it's the most powerful bit of ST software yet





Defining spot colours in PageStream

The nature of colour

There are two types of colour relevant to the desktop publisher - process colour and spot colour. To understand process colour requires a look at how colour is defined

So-called "white" light is a combination of all the colours of the spectrum and it can be broken down into just three primary colours - red, green and blue. They are known as additive primary colours because they are added together to make white, but other combinations are possible.

Red and blue make magenta (a shade of purple), green and blue make cyan (a pale blue) and red and green make yellow. These colours - magenta, cyan and yellow - are known as the subtractive primary colours.

Colour models are conceptual models that let

mere mortals visualise complex colour relationships and values. They enable you to specify a colour quite accurately in terms of percentages of the various

components

The additive primaries give us the RGB model (Red, Green, Blue) while the subtractive primaries give us CMYK (Cvan, Magenta, Yellow and black). In practice, black is added to provide better contrast and dark shadows

Red can be defined as 100 per cent red, 0 per cent green and 0 per cent blue using the RGB model. Another widely used model is HLS (Hue, Saturation and Lightness) where the colours are represented on a circle.



0 degrees being red, 120 being green and 240 being blue. Directly correlated

The hue and saturation reflect the depth of the colour. For the most part the various models can be directly correlated so you can choose which model you prefer to use.

For example, a medium pink of 100 per cent red, 65 per cent green and 65 per cent blue in terms of RGB would be 0 per cent cyan, 35 per cent magenta and 35 per cent



Most commercial printing is carried out with inks made up of the subtractive colours, CMYK, so it makes sense to stick to this model. In practice some black ink is used as true black is difficult to obtain using

The primary

Desktop publishing

such as Europress having opted for inhouse colour origination and separation based on powerful desktop computers.

All you need to do is leave a space in your document where the colour photograph should be and leave the rest to the repro house and printer. The main difficulty is accurately realigning the four plates

Printing registration marks helps here. All repro houses will do this but if you do the separation on your ST, remember to select the registration mark option on your output.

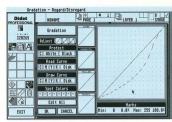
Using a repro house, however, is unlikely to be cheap. If you need to produce documents with full colour photographs, it might well be worthwhile

investing in software that can ease the

Didot Professional, for example, will separate 24-bit full colour TIFF files and screen them into halftones as well. It will also support limited manipulation to bring out or dampen one colour - if an original is too blue, for example, Didot can alter the balance and correct

Colour DTP is still in its infancy. whatever the hype that comes your way. The main difficulty is that even experimenting is expensive.

It is possible to get excellent results but at the end of the day, there is one golden rule - talk to your local printer and ask his advice before you start. It'll save an awful lot of your time and hardearned money.



Scanning in black and white has been around for a while and it represents the quickest method of transferring designs from paper to screen. Simple mono hand scanners have always been relatively affordable but colour scanners are only just starting to come within the average ST owner's reach

The latest arrival on the ST scene is the Epson GT family, a series of full colour flatbed scanners capable of very nearly photographic quality output.

Excellent new driver

mono.

The GT 6000 and GT 8000 models aren't new products but with the release of an excellent new driver, they are about to make their mark on the ST/TT DTP world for the first time. Both models are capable of scanning a full A4 page, either

in full 24-bit colour (16.7 million different colours), in 256 grevscales or in standard

Bottom line EATURES: Superb quality A4

The GT 6000 which we reviewed can scan at any resolution between 50 and 600 dots per inch with an integrated zoom function between 50 and 200 per cent for maximum flexibility

The scanner itself has plenty of built-in features such as gamma and colour correction, three halftone modes and optional SCSI (for TTs) or parallel port connection

(for STs). It takes up as much desk space as a laser printer with a small control panel on the

Epson GT 6000 colour scanner

front and an opening lid, somewhat like a photocopier, which lifts to reveal a glass plate for the scanned document.

Operation is quick and intuitive using the driver software, called Look. Look runs on any ST/STE or TT although less than 4Mb of RAM can't be recommended for colour work. Any screen resolution is supported, including ST medium and high resolution and all the TT modes, though it isn't necessary to have a colour monitor to scan in colour

Pre-scan mode

The software has a pre-scan mode which lets you look at the image first then decide which parts to scan in detail and what settings to use. Images can be saved as mono IMG files, Retouche-compatible TIFF blocks or standard TIFF files.

In tests we scanned a 2Mh Product: Epson GT 6000/Look full colour graphics file in software about a minute and a half. However, it slows down when

scanning files larger than available memory as they are saved directly to disk. The same file took seven minutes when scanned directly to disk. Greyscale and mono images are considerably faster.

Supplier: CGS, 19 Ledbury Place, Croydon CRO 1FT Telephone: 081-686 8121 Price: £865

Configuration: All STs and TT



A new Look for the ST

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AST 01 PLANETARIUM simply the best PD Astronomy program. SKYMAP another great Astronomy program plus aSTronomer.

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MUS31 The ACCOMPANIST SEQUENCER from H.

WFR01 ST WRITER V4.2 and FIRSTWORD. The best word processors for the ST(E) plus a spell checker, print spooler and a selection of ready to use letters.

ODDO7 THE WORLD OF STARTREK, Over 300K of text interviews and biographies from the original STARTREK and NEXT GENERATION plus loads of pictures from both series. A must for all TREKKIES!!!

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WPR03 ALICE. Super text editor up to 10 docs. In memory at once, EDITEXT, Super little text editor. Ideal for beginners. NEWORD 400v3. Easy to use text editor, again good for beginners. NOTEPAD. Make temporary notes from within any gem program. PHONEPAD. Pop up telephone book, FILOFAX and ORGANISER, Everything a paper filofax would have and much more in these two programm. TYPEWRITE - Turn your ST into a typewriter.

WPR09 LEXICOM. A pure word list containing 46.209 words without slang, americanisms of other rubbish. Needs 1Mb to run with SPELLONE (spellchecker) also provided on this disk.

ART01 ARTUTOR. For budding artist. Includes its own package.

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ARC12 BELUM INTERACTUM - Good galaxians clone, BLOCKADE, HAUNTED HOUSE, AMORTRACK, BOING, INVADERS, MANIA, Another superb selection of arcade games.

ARC13 VIOLENCE. Superb scrolling shoot em DROID - Excellent platform game.

ADV03 CONQUEST. Graphic adventure. Should take weeks to complete! (Shareware).

ADV06 BLACKDAWN, Good text adventure with excellent graphics, DUNGEON MASTER NEW LEVELS. Needs original DM disk to play.

UTL73 GEMCALC, Best German spreadsheet now translated to English, Both 0.5 and 1Mb

UTL134 FAGROTAN. Must be the best virus killer around, V.KILLER v3.84. Another excellent virus killer, EXORCIST. The latest version of this V.Killer, HD RESTORE, Repairs hard drive boot sector, RIPPER and PROBE, Two programs to grab music and graphics from disks and more...

UTL139 DESK PACK PLUS. This superb integrated accessory tool has now been released as Shareware, GET IT!! DOSS ACC v2.8 + THE ACC - Super multi function accessories. M DISK v4.3. Multi function ramdisk, disk copy, hard disk, cache and more. NEWBELL and SIREN.

HTI 120 7X SPECTRUM EMULATOR Needs 1Mb SPECTRUM to ST DOWNLOADER. Gives details on how to transfer Spectrum games from tape to disk for the above emulator. ZX81 EMULATOR and 89 PROGRAMS

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ith computers and software expanding in power and sophistication at a hefty pace, their hunger for higher capacity media is becoming insatiable.

This growth is not restricted to the business computing arena either Computer and software sophistication in the consumer market grows at an

The humble 1Mb floopy drive, which provides 720k of actual storage space, is straining at the seams with data and 1.44Mb drives are replacing them in newer machines such as the Mega STE. TT and now the Falcon030.

The storage capacities of these devices all pale into insignificance however, compared with the capacity offered by the new Floptical drive.

Using special 3.5in "Floptical" disks. the Floptical drive gives a formatted capacity of 21Mb, with 40Mb and 80Mb and higher flootical disks due in the future.

Precise tracking

Such high capacities are achieved by its patented optical tracking and magnetic recording techniques.

The Floptical disk has 900 concentric microscopic optical "servo" tracks stamped onto the magnetic surface, and using techniques similar to CD players the Flontical drive shines an infra red LED onto the embossed surface.

A receiving lens arrangement then relays the beam to a photodetector which is used to indicate that the drive head is in position.

Once in position, a second, "finetune" positioning stage is used to accurately locate the data. This use of precise optical tracking

allows track densities of 1,245 tracks per inch (tpi) as opposed to the 135tpi of standard floppies.

Standard floppies

With dimensions of 101.6 x 25.4 x 156.5mm and a weight of 450g, the actual drive could be mistaken for a normal external floppy drive - and it isn't only in looks that the Floptical resembles a standard floppy drive. It can actually read and write to standard 720k and 1.44Mb floppies, allowing you to continue using your existing collection of

In fact, the Floptical is essentially a floppy disk and hard disk in one, providing hard disk capacity with the removable, low cost convenience of a The model sent to ST User for review

was a Data Pulse Plus (DPP) drive incorporating a Maxtor 127Mb hard drive with the Floptical built in. However, standalone Flopticals and

upgrade offers to existing Data Pulse Plus owners will soon be available. The DPP drive is very compact and

Seeing is believina

Ladbroke Computing are bringing new data storage technology to the ST in the shape of Insite Peripheral's Floptical drive. Darren Evans investigates



Specifications for Floptical drive and Floptical disk

SCSI - 1.5Mb/sec max transfer rate.

1.44Mb disks

65ms

5v only

1,245tpi

24,000bpi

Barium ferrite

21Mb with downward compatibility with 720k and

for review, as the ST User Mega STE was due to have the hard drive backed up. Backing up 52Mb of data on to innumerable floppy disks is an extremely time intensive and boring process.

Unless you are fortunate enough to have a second hard disk to copy your

Formatted capacity

Average seek time

Power requirements

Track density

Bit density

Media

Interface

- are needed to back up 52Mb. One notable problem, though, was the fact that the most popular backup software on the ST - Diamond Back II from HiSoft - failed to recognise

the Flootical. Ladbroke are to contact the programmers of Diamond Back and hone to resolve this.

However, using simple Desktop copying procedures, backing up a partition to aFloptical disk took a lot less time than would have been required to back up to standard disks.

Not cheap

With a price tag of £770, some may say it's not exactly cheap, but when you consider that you get ICD software, 127Mb hard disk storage and unlimited capacity storage on the Floptical due to the removable nature of its media, plus the ability to read and write to 720k and 1.44Mb standard floppies, the price is worth it

Bottom line

FEATURES: Extremely quite front mounted ID and power switch. High capacity and cheap removable Floptical

EASE OF USE:Ready formatted useful utilities provided on







Product: Data Plus 197Mb with Floptical Supplier: Ladbroke Computing, 33 Ormskirk Road, Preston Lancashire, PR1 9QP

Telephone: 0772 203166 Price: £770 Configuration: All STs and STEs

Accelerators

PRODUCT	PRICE	SUPPLIER	COMMENT
AD Speed ST	£145	HCS	68000 chip running at 16MHz with cache or standard 8MHz. Fits in place of standard 68000
AD Speed STE	£165	HCS	The STE version of the above
68030 SST-50	£550	HCS	For the Mega ST giving phenomenal speed increase. 68030 runs at 50MHz and has space for 8Mb on board RAM. TOS 2 include

Atari	har	dware	
PRODUCT	PRICE	SUPPLIER	COMMENT
Mega STE1	£586.32	Atari	1Mb of memory featuring the latest operating system (TOS 2.06). Switchable speeds between 8 and 16Mhz. Features stereo sound and 4096 colour palette and is fitted with a 1.44Mb internal floppy drive.
Mega STE2	£700.83	Atari	As above but with 2Mb of memory.
Mega STE4	£1047.83	Acres (Acres (Ac	As above but with 4Mb of memory.
TT030/2	£1164.15	Atari	A 2 Mb, 32-bit machine featuring the 68030 processor which runs at 32Mhzas opposed to the normal ST's 8Mhz. Has normal ST low, medium and high res with additional TT modes of 320X480 (256 colours), 640X480 (16 colours) and 1280X960 (2 colours).
TT030/4	£1456.65	Atari	As above but with 4Mb of memory
TT030/8	£1866.15	Atari	As above but with 8Mb of memory.
SM144	£149	Atari	A high resolution (640X400) monochrrome monitor providing an excellent and crystal clear display. Ideal for wordprocessing.
SC1435	£259	Atari	A stereo 14" colour monitor providing an excellent display.
SLM605 Laser Printer	992	Atari	Atari's laser printer offering 300dpi resolution with a performance rate of 8 pages per minute.

Emulators

PRODUCT	PRICE	SUPPLIER	COMMENT
Vortex ATonce 386SX-16	£330	Silica Systems/HCS	This emulator is for the STE/Mega STE runs at 16MHz. The board includes space for a maths co-processor and 512k of fast RAM.
Spectre GCR v3.0	£340	HCS	A Mac emulator giving a faster performance and easy fitting, Includes the 128k Mac ROMs
PC Speed(XT)	290	Ladbroke Computing	An XT PC emulator for the STE and ST
AT Speed	£149	Ladbroke Computing	A PC emulator complete with Dr DOS software.
AT Speed C16	£229.99	Ladbroke Computing	Includes Dr DOS 5, and has a socket for the 80C287 math co-processor

Hard drives

PRODUCT	PRICE	SUPPLIER	CAP.	ADAPT.	COMMENT
Data Pulse Plus	£399.99	Ladbroke Computing	52Mb	GE-Soft	The Data Pulse range are come with either ICD or GE-Soft host boards and are very quiet in opera- tion. Also have integral 64k look ahead disk cache
Data Pulse Plus	£359.99	Ladbroke Computing	52Mb	ICD	
Data Pulse Plus	£439.99	Ladbroke Computing	105Mb	GE-Soft	
Data Pulse Plus	£459.99	Ladbroke Computing	105Mb	ICD	
Data Pulse Plus	£529.99	Ladbroke Computing	120Mb	ICD	
Data Pulse Plus	£799.99	Ladbroke Computing	240Mb	ICD	
Series 900	£329	Power Computing	52Mb	ICD	
Series 900	£479	Power Computing	105Mb	ICD	The Series 900 drives feature a very slimline construction, uses Quantum mechanisms and has a write-protect switch. Battery backed-up clock is optional for extra £10
Mega Drive	£249	Gasteiner	32Mb	ICD	A good budget hard drive with a robust case. Very quiet.
Mega Drive	£309	Gasteiner	52Mb	ICD	
Mega Drive	£399	Gasteiner	105Mb	ICD	
Mega Drive	£599	Gasteiner	210Mb	ICD	
Reference	£299	Evesham Micros	40Mb	ICD	Colour matched to the ST and uses the NEC mechanism.
Reference	£449	Evesham Micros	100Mb	ICD	
ProGate 2	£232	Protar	20Mb		An excellent drive featuring a built-in SCSI host adaptor and includes space and wiring for an extra "bare" SCSI mechanism to be plugged straight in. Ready to use with excellent manual and software.
ProGate 2	£292	Protar	40Mb		The range of Protar hard drives use Quantum drives
ProGate 2	£376	Protar	50Mb		
ProGate 2	£503	Protar	105Mb		
ProGate 2	€607	Protar	120Mb		
ProGate 2	£938	Protar	240Mb		
ProGate 2	£1415	Protar	440Mb	Water States	

Hardware buyers' guide

A detailed and up-to-date listing of peripherals for your Atari ST

Welcome to ST User's Hardware Buyers' Guide. Herein von will find information on a variety of hardware products available for your Although every effort has been

External

PRICE

€52.99

PRODUCT

3.5in External

power

SUPPLIER

Evesham Micros

made to ensure the information are constantly being revised and updated. Tthe information was accurate at the time of going to

Hard	driv	res			
PRODUCT PI	RICE S	SUPPLIER	CAP.	ADAPT.	COMMENT
ProGate 2	1602	Protar	500Mb		
Hunter Carnegie	£449 Hunte	r Business Systems	100Mb	ICD	Good quality all-rounder. Comes with ICD's AdSCSI host adaptor
DIY h	ard	drive	P	arts	
PRODUCT	PRICE	SUPPLIER			COMMENT
Host Adaptor	259	Gasteiner			
Metal Case	£35	Gasteiner			
50 Watt PSU	£35	Gasteiner			
DMA cable	£5	Gasteiner			
SCSI cable	£5	Gastelner			
Seagate 32Mb bare drive	£150	Gasteiner	Bare d	rive for hard drive	kit
Seagate 50Mb bare drive	2199	Gasteiner	CAN IL		
Quantum 52Mb bare drive	£199	Gasteiner	Quantu	um are regarded as	s the best hard drive mechanisms available. Extremely quiet and very fast.
Quantum 105Mb bare drive	£279	Gasteiner			
	y di:	sk dri	ve	s	COMMENT
PC720B PC7200I	PRICE £65 £45	SUPPLIER Power Computing Power Computing	Excelle An offi	ent features such a cial Atari internal c	s built in Blitz Turbo, virus blocker and allows you to boot from drive B. drive. The ST range have differing sizes of eject buttons and case modification may be required.
PC720B PC7200I	PRICE £65	SUPPLIER Power Computing	Excelle An offi	ent features such a cial Atari internal c	s built in Blitz Turbo, virus blocker and allows you to boot from drive B.
PC720B PC7200I	£65 £45 £59.99	SUPPLIER Power Computing Power Computing Ladbroke Computing	Excelle An offi Feature	ent features such a cial Atari internal c as an LED track co	s built in Blitz Turbo, virus blocker and allows you to boot from drive B. drive. The ST range have differing sizes of eject buttons and case modification may be required.
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PRODUCT PC7308 PC7200I Golden Image External PRODUCT Power Mouse	265 245 259.99 210 C	SUPPLIER Power Computing Power Computing Ladbroke Computing trac SUPPLIER	Excelle An offi Feature	ent features such a cial Atari internal c as an LED track co all IS	is built in Biliz Turbo, virus blocker and allows you to boot from drive B. from The ST range have differing size or deject buttons and case modification may be required, under and that 'port for the older STISTM models COMMENT
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PRODUCT PC720B PC7200I Golden Image External PRODUCT Power Mouse Optical Mouse Star Cursor Joyatick	PRICE 105 1045 1059.99 2.10 C PRICE 115 129.95	SUPPLIER Power Computing Power Computing Ladbroke Computing SUPPLIER Power Computing Power Computing	Excelle An offi Feature Good c Reliabl Based tion. Tv	int features such a cial Atari internal c as an LED track co a LED track co quality and reliable e 300dpi optical m on the MCA Arcac wo fire buttons.	so built in Biliz Turbo, virus blocker and allows you to boot from drive B. When The ST range have differing size or eject buttons and case modification may be required. Lower and thin' port for the older STETM mondes COMMENT mouse at an attractive price coses with 600mmisster bracking, locksides mouse must and holder. Good buy.
PRODUCT PC7208 PC7208 Golden Image External Mice, PRODUCT Power Mouse Optical Mouse Star Cursor Joystick Golden Image Mouse	PRICE 165 245 259.99 And PRICE 115 129.95 17.95	Power Computing Ladbroke Computing Ladbroke Computing Ladbroke Computing SUPPLIER Power Computing Power Computing Europress Direct	Excelle An offi Feature Good C Reliabl Based tion. Tv A low p A some	ent features such a cial Atari internal c es an LED track co as an LED track co as an LED track co as an LED track co as a LED track co a LED track co as a LED track co a	as built in Biliz Turbo, virus blocker and allows you to boot from drive B. frim: The ST range have differing size of eject buttons and case modification may be required, unter and thru' port for the older STSTM models COMMENT mouse at an attractive price coulse with difference strateging feelules mouse mat and holder. Good buy, for joystick, regarded as the best in the world. Features selectable four or eight-way microswitch open local mouse with 2000pt resolution and AnalgaST switch
PRODUCT PC7208 PC7208 GOdden Image External PRODUCT POwer Mouse Optical Mouse Star Cursor Joystick Golden Image Mouse Gl Brush Mouse	PRICE 165 245 259.99 211 C PRICE 115 129.95 117.95 14.99	Power Computing Power Computing Ladbroke Computing Ladbroke Computing SUPPLIER Power Computing Power Computing Europress Direct Ladbroke Computing	Excelle An offi Feature Good c Reliabl Based tion. T A low p A some	int features such a cial Atari internal c as an LED track co as an LED track co as an LED track co as an LED track co quality and reliable a 300dpi optical m on the MCA Arcac wo fire buttons. sirice, opto/mechan wwhat different more be Deluxe Paint art	as built in Biltz Turbo, virus blocker and allows you to boot from drive B. frive. The ST range have differing sizes of eject buttons and case modification may be required, under and thur' port for the older STSTM models COMMENT mouse at an affractive price cuse with Stiffmines tracking, includes mouse mat and holder. Good buy, to joystick, regarded as the best in the world. Features selectable four or eight-way microswitch open claim mouse with 260dp resolution and AnnigaST switch use which is held as a patiettural would be. 150dp. (20mmites tracking speed and comes complete use which is held as a patiettural would be. 150dp. (20mmites tracking speed and comes complete use which is held as a patiettural would be. 150dp. (20mmites tracking speed and comes complete
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Very slimline design and very quiet. Uses Sony/Citizen mechanism

COMMENT

Scanners

PRODUCT	PRICE	SUPPLIER	COMMENT
Power Scanner	299.95	Power Computing	Good quality, low price scanner with scanning resolutions up to 400dpi. Features include auto scan rate detect, real time greyscale scanning and good, feature-packed, GEM-driven software.
Golden Image scanner	2119.99	Ladbroke Computing	Up to 400dpi scanning resolution. Includes Touch Up, a comprehensive editing and scanning package and Deluxe Paint.
Naksha scanner	£116.33	Naksha	Supplied with Migraph's Touch-up and has resolutions between 200 and 400dpi.

Networking and interfacing

PRODUCT	PRICE	SUPPLIER	COMMENT
Data-Net	£179.99	Ladbroke Computing	This is the Data-Net starter pack which includes two nodes. Hardware plugs into cartridge port and connects to other nodes via
			coaxial cable and BNC connectors. Hardware is fully Lantech compatible
Data-Net Nodes	£89.99	Ladbroke Computing	The additional Data-Net nodes.

Samplers/Sequencers

PRODUCT	PRICE	SUPPLIER	COMMENT
Stereo Master	£39.95	Microdeal	A great sampler with lots of features. Stereo capability and has a real-time special effects feature. The cartridge is very compact
			and the editor software is easy to use.
Sequencer One Plus	£129.95	Gajit's Music Software	An excellent sequencer offering 32 tracks and a very easy to use interface with tape transport type controls.
Concerto	£39.95	Microdeal	A very good Midi sequencer offering 24 tracks and five different editors including Score, Step and Event.
Poplay 16	C120 0E	Missadasi	The first law east 15 hit complex for the CT skins high quality count counting and availant addition autimate

SCSI host adaptors

PRODUCT	PRICE	SUPPLIER	COMMENT
Ad SCSI Micro Host Adaptor	255	ICD	An internal SCSI controller for Mega STs with excellent software utilities and manual
The Link	ETBA	Silica Systems	A very compact external SCSI host interface allowing SCSI drives and for the Mac, PC, Amiga and NeXT machines to be used
			with the ST, CD-ROMS are also supported

Graphics boards

PRODUCT	PRICE	SUPPLIER	COMMENT
Crazy Dots	2389	System Solutions	For the Mega ST/STE, gives 256 colour displays from a palette of 16.7 million. Uses the TsengLabs ET4000 controller and has an
Magney on		minute of the second	expandable architecture. Good performance. 1Mb video memory on board
Reflex	£199	Titan Designs	A graphics card that increases the screen resolution of the SM 124, 125 or 144 to a massive 1024X960. Features include a X4
return to the Australian			zoom facility, mouse accelerator, smooth scrolling over virtual screens of 1024X1024 and full or partial screenshots.
Matrix C110ZV/1	£749	Silica Systems	High quality, excellent performance board featuring the Intel 82786 controller. Features include hardware scrolling and zoom
			function. Comes with 1Mb VRAM on board
Matrix C110ZV/2	£899	Silica Systems	Same as the C110ZV/1 except it includes 2Mb of VRAM for increased performance

Modems - fax/modems

PRODUCT	PRICE	SUPPLIER	COMMENT
EurLlink	£157,45	Europress	Supplied with ST comms software. Speech up to 2,400 baud
Smart One	£119	HCS	v.22bis (2,400bps) fax/modem Modem does not have MNP error correction and is prone to line noise
Modem 9600	£139.99	HCS	A fax/modem offering MNP 5 error correction and data compression, thereby giving 9,600bps throughput
Pace Linnet	£149	Silica Systems	A v21/v23 Hayes-compatible modem, featuring auto dial/answer, auto baud rate sensor and battery back up
Pro 4 Auto	£138.83	Silica Systems	A v21/23, v22, v22bis, Hayes-compatible with error correction and compression
Ultralink 32	£873.83		Intelligent v21/23/22/22bis, v32 LCD display, Hayes-compatible with MNP error correction
Ultralink Quad	£468.83	Silica systems	Intelligent v21/23/22/22bis, LCD display, Hayes-compatible with error correction

Monitors

PRODUCT	PRICE	SUPPLIER	COMMENT
Atari SM144	£115	HCS	Atari's latest revamp of the mono monitor. Excellent picture quality for Word processing and other applications other than games
Atari SC1435	£249.95	Silica Systems	Atari's stereo monitor offers excellent picture and sound quality. Has a 13in screen and sleek design. Bad decision to put the
			power switch at the back though

Hardware buyers' guide

PRODUCT	PRICE	SUPPLIER	COMMENT
Philips CM8833 MKII	£229.95	Philips	Good stereo sound and picture quality. Picture adjustment controls at the front but power switch is at the rear
Philips Book	£249.95	Philips	An extremely distinctive TV/monitor resembling an open book. Picture quality not as good as a dedicated monitor.
Philips FST Cube TV	£259.99	Ladbroke Computing	15in screen, remote control and Fastext
Printe	ers		Market State of the Control of the C
PRODUCT	PRICE	SUPPLIER	COMMENT
Epson EPL-4300	9999	Epson (UK)	A easy to use printer with Laserjet III compatability. Excellent print quality and lots of internal fonts including Courier, Time, Sans serif and Dingbats. Will also accept Epson font cards.
HP LaserJet IIIP	£1,179	Hewlett Packard	Sleek looking laser printer but rather expenisve when compared to the Richo and it's features. Good quality print.
Panasonic KX-P4410	£845	Panasonic Bus. Sys	A little expensive when compared to what other laser printers offer. Very good quality print. A good basic printer if a little pricey.
Seikosha SP-1900 Plus (9-pi	in) £128.08	Silica Systems	80 column, 192 characters perisec draft, 48cps NLQ. Has 1k printer buffer and two fonts with Epson and IBM emulation.
Seikosha SP-2400 (9-pin)	£170.35	Silica Systems	80 column, 300cps SD, 2400cps Draft, 60cps NLQ. Features 21k printer buffer and 5 fonts & Epson and IBM emulation.
Seikosha SL-92 Plus (24-pin	£229.13	Silica Systems	80 column, 240cps draft, 80cps letter quality. Includes a 44k printer buffer and 9 fonts Epson and IBM emulation.
Star LC24-20 (24-pin)	£189	Ladbroke Computing	210cps draft, 64cps LQ. Includes 10 resident fonts with the ability to accept font cartridges. 16k printer buffer expandable to 48k and has paper parking facility
Star LC24-200 Colour (24-pin	n) £259	Ladbroke Computing	22cps with 5 resident fonts. Accepts font cartridges and has bottom feeder, push or pull tractor feed and paper parking
Starjet SJ-48	£219	Ladbroke Computing	A good quality 48 nozzle bubblejet printer. 166cps with 2 resident fonts. Offers near-laser quality output and Epson and IBM compatible
Star LP4 III	£1,049	Star Micronics (UK)	A high quality, quiet Laserjet III comapatible laser printer. Has a font slot that will accept both Star and Laserjett III font car-
tridges.			High quality print output.
Ricoh LP1200	£779.99	Ladbroke Computing	A value for money, 400dpi laser printer offering HP LaserJet compatibility, smooth edge output and onboard 2Mb RAM
Misce	llan	eous	
PRODUCT	PRICE	SUPPLIER	COMMENT
Forget Me Clock II	£17.99	Marpet Developments	A clock that fits into the ROM port on the ST providing a battery backed up clock for automatically setting the time on the ST. Has a thru-port to enable other cartridges to be used when fitted.
ST Secure	£19.99	Ladbroke Computing	A security device to prevent unauthorised use of your computer. Once installed, ST Secure allows 45 seconds for the password to be entered or it resets the computer
Centronics printer	€4.99	Ladbroke Computing	
STE Scart	£14.99	Ladbroke Computing	Used to connect the ST to the Scart socket found on the Philips TV/Monitors
STE 8833MKII	£14.99	Ladbroke Computing	Allows connection to the very popular Philips colour monitor. STE only
STFM 8833MKII	£14.99	Ladbroke Computing	As above except for your STFM owners
Null modem lead	9.99	Ladbroke Computing	This lead allows you to connect two machines together to play the many games that feature multi-player modes.
Mouse/Joystick extension	25.99	Ladbroke Computing	Prevents wear and tear of the badly placed and fragile mouse/joystick sockets and makes connecting and unplugging of the mouse and joystick much easier
Video	Dig	gitiser	s
PRODUCT	PRICE	SUPPLIER	COMMENT
Complete Colour Solution	£179	Rombo	A complete package for capturing colour images. Images can be grabbed from colour video cameras, home YCR's or any still video source. Package includes a electronic RGB splitter, problems with focusing and movement are removed. The digitising

Distributers phone list

Monitors

Gasteiner	081 365 1151
Hunter Business Systems	
Silica Systems	081 309 1111
	081 777 0751
Microdeal	0726 68020

software included (VidiChrome) is excellent.

 Note to distributors and manufacturers. Please contact ST User in writing by post or fax if any of the information contained within the guide requires amending or updating, If there are any products available in the UK which are not included here, please contact us so we may add them to our records

Calamus News

Calamus S Release - Incredible promotional deals



At long last Calamus S is with us and at a lower price than previously advertised, £335,00 inc. VAT

If you are at present a Calamus 1.09N user or running any other DTP program available on the Atari platfom, Halco are willing to upgrade that program to Calamus S (on receipt of your master disk) for the staggering low price of £145.00 inc. VAT



Faithful Calamus 1.09N still at th low price of £139.99 inc. VAT Outline Art also at the reduced price of £95.00 inc. VAT Font Catalogue £7.00 inc. postage & packaging



Calamus SL is proving to be a master of colour work and the latest May issue is even better, £587,50 inc. VAT

Halco will give you a copy of Calamus 1.09N and Outline Art 1.0 with every Mega STE and TT purchased while stocks last.

> Mega STE/2 without hard drive £570.00 inc. VAT Mega STE/4 without hard drive £685.00 inc. VAT

(Mega STE's can be supplied with hard drive, please telephone for more details.)

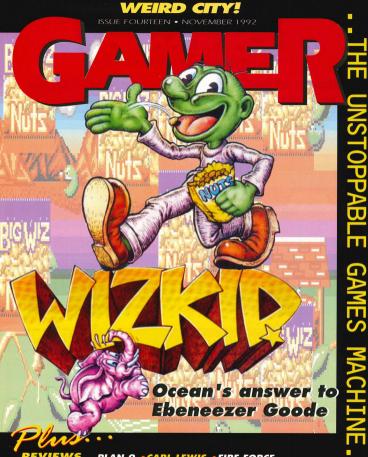
TT030/4 without hard drive £1420.00 inc. VAT TT030/8 without hard drive £1720.00 inc. VAT

(TT's can be supplied with numerable hard drive options, please telephone for more details.)

Halco offer a large range of peripherals from monitors, printers, scanners upto low cost image-setters. For more information please do not hesitate to contact us. Access & Visa accepted.



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REVIEWS... PLAN 9 • CARL LEWIS • FIRE FORCE

MEGA SPORTS • CAPTAIN DYNAMO• AND MORE

ALSO... LURE OF THE TEMPTRESS SOLUTION • REACH FOR THE SKIES PREVIEW

WORC

This is rumour control... these are the facts

Strange shaped things to wrap your finger around



Cheetah have brought out some rather silly joysticks. Character joysticks which believe it or not are joysticks with characters from various cartoons and films instead of the usual sticks. It's supposedly the biggest tie-in ever involving film



licensing and the computer hardware. All I can say is that they should be locked up. Bloody perverts.

Violence, violence

Press release of the month goes to Virgin for their preview of Apocalypse. In these times of the socially aware, references to mindless violence are somewhat frowned upon, but do we care? Virgin don't, It seems that they have Charles Manson and The

Yorkshire Ripper writing their press releases, and I

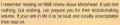
The emphasis here is on mindless mass destruction It's a fire fest." Basically it's a total violence frenzy. Coming soon from Virgin.



grab-a-groupie sessions, trash that hotel room, and slapping an oriental man around the face with a fish. You also have to knock Stonehenge over onto the hippies before they float away. Updates as we have them.



The Ace of Spades



The "eccentric" exploits of one of the world's favourite heavy metal bands can be experienced by everyone, even your gran. You play Lemmy, the warty bass player, whose talents stretch to being Jimi Hendix's roadie and being thrown out of Hawkwind for taking to many drugs. The idea is to release your friends from

the clutches of somebody. The actual game can be described as a beat-em-up along the lines of Golden Axe, but it's infinitely more silly. The player has to run around Karaoke Land, Nashville Land, Hippy Land, Gothic Land, Hip Hop Land and Rave Land, where foolish floating E-Heads are out to do over Lemmy. You really would have to be on some sort of drugs to take him on. As a bonus there are

TALKING SHOP



In The	17111110	01101	ž ž	G-A DRUZ-HISTORIA
1>1	Sensible Soccer	Renegade £25.99	11 🙏 NE Space Flight Simulator	Virgin £30.99
2 🙏 NE	Championship Manager	Domark £24.99	12 A 14 Oh No More Lemmings	Psygnosis £19.99
3 > 3	Magic Land Dizzy	Codemasters £7.99	13 > 13 Jack Nicklaus Golf	Hit Squad £7.99
4 🙏 5	James Pond	GBH £7.99	14 💙 4 Pro Tennis Tour	Hit Squad £7.99
5 V 2	Formula One Grand Prix	Microprose £34.99	15 🙏 NE Go For Gold	Kixx £.99
6 > 6	First Division Manager	Codemasters £7.99	16 🙏 19 New Zealand Story	Hit Squad £7.99
7 🙏 8	Lotus Turbo Challenge	GBH £9.99	17 V 12 World Cricket	Zeppelin £7.99
8 🙏 10	Rainbow Islands	Hit Squad £7.99	18 🙏 NE Falcon	Action 16 £14.99
9 🙏 20	Striker	Rage Software £25.99	19 🙏 NE Colossus Chess X	CDS £7.99
10 🗸 7	Epic	Ocean £29.99	20 🙏 NE Graham Taylor Soccer Challenge	Krisalis £25.99

I'm quite average really

After nine years of waiting the masters of procrastination Braben and Co have finally got round to doing a sequal to the space trading shoot-'em-up Elite, originally titled Elite II.

The graphics on the new game have been hailed by another mag as being the "Some of the most stunning screen shots you'll ever see".

The sequal will give a whole new depth to the game, offering you different starting points and the opportunity to fly with a bunch of pirates. It also boasts that it will "let you do everything the book said you could do".

It is still the office favourite as we found out last week when somebody brought their copy into the office, so you're lucky to be reading this mag at all this month.

All together now

It didn't take long – lock up your daughters and shackle your sheep, the Biff is back. Ha ha, his love for Gamer made him leave his job on another magazine and come fleeing back to this stalwart organ. He's not doing much this month but next month all hell breaks loose at Biff the Kiff does Silly Putty.

To inject a small amount of jollification into the On Word pages we are running a small competition.

The question is thus – who is this ex-editor of Gamer and how silly does he look? Answers on a Melon to the Get Dan Back Competition, and we'll think up some worthwhile prize to send you.



GAMER

INNER VISION

It's an issue packed full of goodness, plus now

CARL LEWIS	CHALLENGE	4
Sporty goings on	in Psygnosis' newest, plus absolutely no sign of	Jim Rosenthal

MEGA SPORTS

US Gold go all sporty aswell in this sports extravaganta compilation type thingy. My goodness

ONWORD All the latest news and views, plus a brilliant embarrasing picture

TALKING SHOP....

to Talking Shop

THE SOURCE.

Nigel Mansell's car gets an explort look over by ace mechanic Ben.
Plus there is a sneaky peek at Hero Quest 2. Wow

THE SOURCE THE FINAL SOURCE...8
Reach For The Skies gets a good seeing to by Paul as he dons his

Ilying scarl and googles

CHEAT MODE18

Having trouble with Virgin's Lure Of The Temptress, well fear no longer here's a handy four page Cheat Mode special

November 1992 (C/S/2/) 47



Hooray, time to build a sandcastle. Where's my bucket and spade?".

This could be a really interesting and witty



caption about the high jump, but it isn't

More like The F*&%\$1* S*&% Challenge

CARL LEWIS CRIALLENGE

I am desperately looking for a word or words to describe how bad this game is. The only words I can think off at the moment are obscene and you'll only find them in Viz.

Things are definitely looking bad for Carl Lewis and his Challenge. I don't normally start a review with what I think of the game – I normally leave my comments to the end, where they being – but because this game is so stinky I just have to tell you now.

After a few plays it loses any appeal it might have had in the first place. Take a look on the box and you'll see several screenshots. To be honest it looks quite nice and more than likely I might have bought it from my local computer game store, but thank God I'm a reviewer and I get to see everything before wu do and for free.

In terms of smelliness, Carl Lewis' Challenge is, err, well imagine the smelliest smell you can possibly think of. Carl Lewis' Challenge is 20 times smellier than that. Well I'll take a little break from slagging

right now and instead I'll tell you a little about what you do in the game. There are five events to compete in.

You might think that Carl Lewis Challenge is a Joystick waggler. You'd be half right because – and here's a slight bit of originality - there are three different ways of controlling the game.

The joystick waggler, which is for intents and purposes called the speed control method, is the best out of the three, but it doesn't half knacker you out.

The way it works is pretty damn obvious, but just in case there's one reader out there who doesn't know, I will tell all. The quicker you are able to alternate between the left and right controls, the quicker your athlete

will run. The rhythm control method depends upon your timing of the Fire button presses in relation to an on-screen gauge. The last method is called the gearing control method. Using the marks below the scanner, you time the Fire button press to each of the marks.

Failure to hit the marks results in your athlete losing speed or not jumping or throwing at the correct time.

All righty, time to explain those delightful events. First of all the 100m sprint. This is a very complicated event – you have to guide your athlete in a straight line, going as fast as you can towards the finish line, and blow me down if you don't race over the



Excuse me, but aren't you Fatima Whitbread?

distance of 100m, cor blimey missus if that ain't a turn up for the books.

The 110m hurdles is essentially the same as the 100m sprint, except you jump over hurdles and you have to race over 110

The javelin is one of the better events in the game, which is not saying much. High jump and long jump are very easy indeed, in fact far too easy.

So there you have it, all the events, all five of them. Now time to finish this review – yes kids, time to get nasty.

The digitised graphics are nice and work quite well – at least that's one plus point. The playability is non-existent – I've seen better games than this out there in the PD market. Well, the only award this game is going to win is Crappiest Game of 1992. If anyone makes a game as bad as this, then I'm going to or.

To sum up, Carl Lewis Challenge Isn't a challenge, in fact the only challenge is whether I'm going to chuck the game into the nearest lake or wide Little took the nearest lake or wide Little took many the the nearest that the state of the control of the the nearest lake or wide Little took many the distribution.

Jonathan

VISION

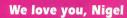
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Now that could be very painful indeed. Ouch







One thing that the English seem to be vaguely good at is motor racing. This year old Mansell won the World Championships – about time too is all I can say.

To commemorate this momentous occasion, Gremlin are about to release the game of Nigel Mansell, and would you believe it, it's a driving game. Now there's a surprise, eh?

It's an actual racetrack game, which is something we haven't seen in a while. It's all racing through deserts and the like nowadays, but I still remember Pole Position – no-one else does.

Since the release of the motorbike driving game Team Suzuki, which was deemed the most ridiculously impossible game in the world, people have started putting trainers in their programs.

This is the first fully functional one that I've come across. It has a sort of advice service that takes you around the various tracks - handy, huh?

It's got all the usual stuff you see on racing games such as gearbox options for the girlies who want an automatic. You will also be able to tune the car more to your needs.

Well, the sources say that this is going to be the closest thing to driving a Formula One car, bar actually driving one, I suppose.

We reckoned that the handlest bit of the game was the fine tuning of the car which allows you to add aerofolis or spoilers and other little bits and pieces. And you'll have to wait a mere few weeks, until the end of November, to get your clammy paws on a copy.

A beastie's back door

Hero Quest II is another vastly humongous adventure game from those lovely Gremlin people. The follow up to, wait for it, Hero Quest, this is bigger than a very big thing. Comprising ten different scenarios, it should keep the adventure gamey people happy for a long while.

The nicest part were the interactive characters, who have the ultimate aim of either distracting you or helping you in your quest.

Unlike some of the recent adventure games, you are not just confined to a dungeon (who said Lure of the Temptress?) as there are forest, and things like that to get thoroughly lost and frustrated in.

There's all the normal cobblers you get in adventure games. like character, class and the like, and it's out in November, so you'll have to wait a little bit longer.





a e m o n sgate is the
delightful
title given to Gremlin's brand new roleplaying game and
apparently it's
going to be the
largest and most in
depth game of its
genre yet. We shall
see, but first let me
tell you a little story.

tell you a little story.

Six months ago all contact was lost with the ancient kingdom of Elsopea, not something that the rulers of other kingdoms were too worried about because the Elsopeans were a strange

strange probably isn't the word, but any race that watches the evening and Sunday editions of Eldorado is definitely a bit bonkers. For nearly a thousand years, they have lived a reclusive existence, rarely coming into contact with their neighbours.

Suddenly, strange reports began to filter in from the small hamlets (now listen up kids, a hamlet is a small village, especially one without a church. Oh and it's also a make of well-known cigars sold in most newsagents.— Educational Ed) to the south of Tomic

It appeared that a rather large Daemonic army (gusp!) of unknown origin (yowsers!) was moving through the Border Peaks from Elsopea destroying everything in its path (gasp!).

Besieged

The armed forces of Tormis tried to stop the advance, but to no avail and the city was soon besieged. Alone and without any help from their neighbours, the inhabitants of Tormis had to sit and wait it out and the Daemonic hordes were happy to let them sit there and sweat.

Well, it's about this time when some out of hero or heroes appear and kick the butts of the Daemonic hordes. You play the part of Captain Gustavus of the Imperial guard and by the request of the city council, you have to get a band of willing mercenaries and find a way out of the besieged city. From there you have to find a certain

From there you have to find a certain elderly Elsopean who knows how to defeat the Daemonic hordes, give them a bashing and be home in time for tea. Easy, innit?

Remember the hordes could attack at any time and the city's defences cannot withstand a prolonged assault. The survival of the kingdoms and the world is in your hands and if that isn't dramatic, I don't know what is. The game is set



Daemonsgate 1-Dorovan's Key

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Statistics

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called Hestor,
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including a fully detailed
"hythos" [?], a complex
social structure, realistic ecology and logically laid out geo
y and logically laid out geo

What a mouthful - big words never impressed anyone especially when you don't know what the hell they're going on about. Well it was all compiled over six

Well it was all compiled over six months and Gremlin assure me that it's going to be one of the most rational fantasy environments ever created for a computer game.

As with almost every role-playing

game, the player in Daemonsgate controls a number of characters - in this case eight - utilising he various skills and abilities of each team member to overcome the tasks and problems that lie in their way.

The game is made up of five major elements, which consist of land travel, town travel, combat, conversation and magic. In total there are over 100,000 screens of towns and over 5,000 town inhabitants and this apparently is the

largest map size and non-player characters yet seen in a RPG. As you can see from the screen

shots, the graphics are top notch and thus it could be Gremlin's finest release yet, we shall see. Daemonsgate 1 -Dorovan's Key will be out in time for Christmas and will cost you a penny short of £35, but by the looks of things it'll be worth every penny.

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Eat lead Gerry syline



Courtesy of Diplomatic Headlines Inc

w, please don't shout at me for being an ignorant racist limey pig. It's Wednesday afternoon – deadline day – I'm hassled, and I need to let off steam

Now before we start receiving a... er, trickle of letters questioning the wisdom of employing a xenophobic editor, let me just point out that the Gerries of the title are not our contemporary pfenig-mad, sunbed-pinchqueue-jumping European others, but are in fact the chippy

released by Virgin round about... well, some time in the near fututre. Approximately.

Designed and written by flight sim

supremo Rod Hyde, Reach For The Skies promises to be a massive hit with all fans of the genre, and may even convert a few thickos like me.

The whole simulation revolves around the Battle Of Britain. You're given the choice of being a good old boy from Blighty, or a nasty Gerry, faced with the awesome task of alter-

ing the entire outcome of the war. At the time of writing, the sound and explosions are still a trifle weedy and the control's

just a bit wobbly, but Rod assures us that these will be tweaked and beefed up on the finished

As a simulation it's just about as accurate as you can get. There's a real feeling of speed - you can almost believe there really is a bandit on your tail, and the smoothness and external scrolling is not to be scoffed at. For the real

sky hogs among you, even greater speed can be acheived by sacrificing a little detail, such as roads

There seems to be plenty of options and various nice touches even at this relatlively early stage - a particularly good detail is the facility to shoot away portions of the enemy plane, rather than score a direct hit

Unlike many flight sims, Reach allows you to get into the action straight away rather than go through various tedious procedures before you even leave the ground. From what us boys in the office have seen so far, this is a contender for the flight sims hall of

Make sure you buy next month's copy. We probably won't have a full review, but buy it anyway.

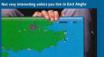




Really, where are my manners? Third paragraph already and you're still not entirely sure what I'm on about. I'll elaborate. We're talking about a flight sim here chums (as you may very well have gathered from the screenshots) – you know, dials, aero-planes, dials, whizzing landscapes, dials... all that sort of thing.

Reach For The Skies (for that is it's nomenclature) is in the latter stages of production at the moment and will be

less vou live in East Anglia







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SPORTS

US Gold # £29.99 # 1/2 meg # Joystick # Out now

Il right, hands up all those people who don't own a sports game. Yes, that's what I thought... not one of you.

OK, let's try this one then. Say "Aye" all those who believe there simply aren't enough sports games on the market. Hmm... was that a pin I heard drop?

Well, in the face of this obvious desire for vet more joystick-waggling run/ski/vault/ hurdle-'em-ups, US Gold leap to the rescue, more than meeting our collective sporting

requirements with Mega Sports - "A thrilling compendium in the best of world sports", or so we are led to believe.

For those of you who haven't yet caught my gist, so to speak, it's a compilation Yes all the old

favourites are back from the computer game equivalent of the donkey sanctuary. clinging doggedly to the belief that there are still one or two people so overcome with

the fading Olympic fever that they'll don a pair of tracky bottoms, take steroids by the bucketload and triple jump all the way to the local compo shop in the vain hope of rekindling the feeling inspired by Sharron Davies's bikini-clad rump. And who knows - perhaps they will. Let's

Il Harvey, what went wrong

1816 & 61E lad, and no mistake!"

I must apologise. I've been very flippant

thus far and realise that there will be some who don't own a sports game, and who would rather not endure my sarcasm while they are trying to decide whether a game is worth buying. This review is for you.

First up is THE GAMES, SUMMER EDI-TION: eight summer-like events for your enjoyment such as archery, hurdles, pole vault... well, you get the picture I'm

Apart from the norm, there are one or two original(ish) events infcuded, such as velodrome cycling flike that bloke with the funny looking hike in Barcelonal and the uneven parallel bars. Control is by the dodgy waggle/press method, with added knobbly bits for the more compley events

This leads us rather nicely to - you quessed it... THE GAMES, WINTER EDI-TION. This is my favourite of the five, consisting of such brass monkey-freezing events as the Luge, ski jump and figure skating.

Graphics-wise, it's not much better than it's sunnier counterpart, and there is actually one event less to compete in - but better crashes and falls are possible, making it a much better laugh.

Sadly, but inevitably, the control method is every bit as dodgy as the other events, and it's unlikey that the sound will win any awards. Not bad though... not bad.

Let's have a look - what's next, Aha, WIN-TER GAMES - just a minute, haven't we just done this? No, note the slightly different title... very crafty. Slightly different events too - a bit more light-hearted this time

Impress the chicks with your Hot Doggin' skills (which is basically somersaulting off a small hillock with skis on), or test your stamina in the biathlon (trekking round the countryside in skis, shooting at what can only be described as the easiest targets in living memory). Graphics slighlty better, sound still naff... amusing for a while

More sunshine, this time in the good old US of A in CALIFORNIA GAMES. None of that running or jumping lark here; there's some serious competing to do in world famous events such as skateboarding, BMXing and, wait for it... flying discl

Yes indeed; chill out, get rad, be bad, and...and... do other such American-esque things in this (relatively) fun beach-burn sun-



shine romp. Enthusiastic eh?

That's it for the compilation bit. The other two in this six-of-the-best bonanza (more enthusiasm) have been commissioned specially for this package and prouldy go by the names of SUMMER GAMES and, sorry, but SUMMER GAMES 2

Skeet shooting and equestrianism are two of the better events; the rest have all been seen in some shape or form a hundred times before. It's a little dissappointing that since these games are newer than the rest. their quality in sound and vision has hardly evolved from the many predecessors.

Apology time once more, I think I may have been a little harsh, and you probably now believe that I hate Mega Sports and all it stands for

Well I don't. I'm certainly a long way from falling to the ground and slobbering a lot. because the graphics and sound just don't utilise the capabiliies of a 16-bit machine, but there's plenty to do, and some of the events are even a decent laugh. Worth paying thirty guid for? Hmm...









Hubcaps and dead people

PLAN/ FROM/ OUTER/SPACE/

GREMLIN = £25.99 = 1/2 meg = Mouse = Out now



Such literary dexterity. "Weird thing" says it all to me



Seedy secret room, looks all right to me

ny film buff worth their salt should have heard of Plan 9. If you haven't then I will fill you in.

It was christened the worst film ever made. The lead actor, Bela Lugosi, died half-way through the filming. So to fill his place Bela's wife's chiropodist or accountant took over the role.

The main problem with this substitution was that the guy was over a foot taller than Bela and looked nothing like him. This unsimilarity to Bela was solved by his holding a cape in front of his face – very convincing I'm sure.

The special effects were almost as comical. Hub caps from old classic American cars were used as the flying saucers, the problem with this being that they wobbled unnervingly as they scooted across the screen, almost as though they were attached to pieces of string. I wonder why.

Anyway, there you have the background to the film. The

bad. You begin your quest in the office of the director of Plan 9. He's hired you to find some reels of the film which have gone missing – fair enough. So you step out of the office and start your exploring in the corridor.

Good point number one – the majority of the things you see on the screen can be interacted with, not just the usual two of which one is absolutely useless.

The first part of the adventure is very linear, a case of do this which will let you do this, but after a while there is a lot more scope to it. What I like most about this game is the sense of humour which seems to run right though.

seems to run right though.
Some of the characters you meet
are intentionally wooden, as they
are in the film. If they're not totally
wooden they are intensely violent –
the barman starts threatening you
with a baseball bat, for instance.

You control your character by a word-driven action interface thingy – you know the score, examine,



The only thing I found a little confusing was moving around the locations. Instead of having the usual north and south directions you have a different location to

which you move directly.

To move there you move your cursor to different points on the screen until it turns into a signpost. It's a little confusing at first but you get used to it.

You will have noticed by this time that the graphics are done in a very individual style. The playing screen is actually quite a small square with the rest of the screen being an inanimate border.

Other magazines have looked at Plan 9 and thought that the style of graphics is a bit of a cop-out. But if the style improves the overall presentation of the game then that's alright by me.

As far as the main screen graphics go the scenes seem to be quite effective if a little sparse.

It doesn't exactly work to the capacity of the machine as you see

to see programmers working on the game play and the overall effect of the game rather than making it look nice and it being awful to play.

The locations themselves are very well drawn with a lot of things you can interact with like the welrd thing in the corner. My only gripe about the graphics is the other characters in the qame.

Basically they all look the same. The man who you are supposed to be getting these reels of tape for is also the cab driver, the bricklayer and the barman. Now I wasn't sure whether that was intentional or

not. The one thing that really made Plan 9 for me was the soundtrack – it's absolutely corking. In the background is the typical hammer horror music. Then it fades out and in comes the actual game soundtrack. It's very atmospheric, but a bit hard to explain really, so you'll just have to listen to it yourselves.

There are loads of individual

from the rest. On the box it states that the game contains actual footage from the film and it really does. When you go into the cinema,

part of the film is playing – bizarre. I was pleasantly surprised by the disk swapping on this game. It's usually a foregone conclusion that it's going to be disk swap city if a large adventure game is not installed on a hard drive, but it's kept to a bearable

minimum.
You can't help but like Plan 9. It's good harmless fun with a large dash of the ridiculous and enough intrigue to keep your average gamer going.

EXAMINE

Coding countered, occasional note there is no control to control t

VISION

999

original.

AUDIO

80%



This is my house, this is all right to me
November 1992 GAMER 11

Time for a new kind of superhero. An incontinent one

CODE MASTERS # £7.99 # 512k # Jovstick # Out now



Here he is to save the day, it's Captain Dynamo



word "superhero", the first things that spring into your overactive minds are probably words like Batman, Superman and Spiderman. Captain Dynamo comes a good stone's throw down the list from these luminaries.

ow, when you hear the

However, if you don't know about Captain Dynamo you soon will, because it's story time, kids, Evil Austen Von Flyswatter, a 72-year-old mad scientist, has decided to fund his retirement by stealing the world's

largest set of diamonds. Having stolen his booty, he's scattered the diamonds around his booby trap-infested rocket ship and escaped to the moon. Of course the whole world is up in arms and decides to call a superhero into action, but unfortunately Superman is out to lunch and Batman is getting his hair done, so the world's leaders have to have the next best thing.

Great cries or whispers of "This is a job for Captain Dynamo!" fill the air. Now this might sound like a good idea, but Captain Dynamo is currently in retirement and at the sprightly age of 75 is at this moment sitting in the Happyvale Home for the Elderly growing lettuce and doing an unbelievable amount of dribbling.

The world has not seen or heard from Captain Dynamo for the last 25 years, but seeing as Captain Dynamo is the only available superhero he'll just have to do.

So, stirring from his bedpan, grabbing his Zimmer frame and donning his super cap and cape, he's on his way to save the world - but first he has to collect his pension. So there you have it, the story of the world's first incontinent superhero, Captain Dynamo.

The game is a straightforward platform romparama. Simply collect the diamonds which are strewn all over the place and get to the top of the screen into a teleporter and so on and so on until you complete it.

Sounds simple, doesn't it? Well



These include space worms, evil bats, deadly spikes, crushers, blasters. conveyor belts and eventually Mad Austen himself. Cor, all sounds a bit

scary doesn't it? You might be thinking that Captain Dynamo has an awesome weapon to do away his baddies with. Well, you'd be dead wrong. All Captain Dynamo

can do is jump, and that's very handy. For example, if faced with a gunwielding crazed psychopath, Captain Pacemaker can jump out of the way. But hey, never mind, who said games had to be true to life anyway?

Right, I'll own up. I'm not a big fan

of Code Masters' Dizzy exploits, but Steg the Slug was suitably impressive and now here we have Captain Dynamo, which is in fact very good indeed. Let's put it this way - even Ben played it for more than ten min-



Ere, ain't you one of those teenage mutant turtle thingies?

utes and that means it is good. It's got great graphics, probably the best in any Code Masters game yet. It's bloody eas y to play - all you have to do is pick up your friendly old joystick and you're away.

The box actually says it's instantly addictive and you're not going to believe this, it is instantly addictive and it's one of those games which you play again and again just to strive to get that little

bit further

Overall Captain Dynamo is a bit of a stonker by Code Masters' standards. It may be like every other platform game, but for a wild and wacky fun platform number, it's worth eight guid of

anyone's money.





ADDICTION **300** You'll always come back for just one more go.



A wiggly worm and an, err, umm, well OK so I don't know what the hell it is. What do you want? Blood?



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ow cast your minds back, back into a time where computer games were hit the big time on the 16-bit

computers.

The time was 1987 and those great
lads at Sensible Software were twisting their minds around a simple, but
effective and original idea for a game.
That game was Wizbail and what a
stonking game it was, although Ben
totally disangers with me on that totally disagrees with me on that point. The idea was to paint a deso-late grey planet using loads of bright, happy colours and make it all, err

happy and colourful again.

You played the part of a wizard and using your magic you turned yourself into a green ball, thus creat-

ing the title of the game, Wizball.

Once inside the little green ball, you had to roam over the planet shooting all the little baddies and collecting the paint which the baddies left behind when they had died.

A most enjoyable romp indeed, in fact one of my favourite games of all time. Slowly five long years passed and with a big boom and even a slight bit of thunder and lighting came WizKid the sequel to Wizball

Technically it's not actually a sequel, it's a completely new game altogether. The game stars WizKid, the son of

Withall who apparently settled down and got married and jumped into bed and got droved in a centrely different got from the property of the centrely different in a centrel set got from the centrel

I can see it air now—the wrance walks into a singles bar and when asked by a beautiful woman what he does for a living replies: "Err, well actually I paint planets and turn into a green blob, but it pays well."

As I was saying WizKid is here and it's going to be one of the games of the year. It's not a platform game and it's not a shoot-em-up, but then again it could be a mixture of the two, but then again it's not really a mixture of the two... see what I mean? I'm seriously having problems

It is in many respects like the clas-sic game Breakout with a huge wedge of toilet humour in it. Well I say Breakout, but perhaps the only similarity is that you have to bash some blocks, but then again it's not always blocks you have to bash (Eh? – Mr Confused Reader).

Look listen up, it's not my fault, it's those lads at Sensible Soft-



What a load of nuts

ware, sometimes they're just too damn surreal for their own good. The only possible way you'll know exactly what it's like is to buy the game. End of story, OK?

Right, your objective is to rescue the wizard/Wizball from the evil

clutches of Zark the baddest and nastiest mouse on the planet. Easy

huh? You have got to be joking. Now if you sat down to play Wiz-

Kid for the first time and just thought it was bashing blocks, then couldn't be more wrong. You have to think surreal. Surreal is probably the best word that describes WizKid along with weird, wonderful and wacky. Everything is not what it seems

Now that's what I call toilet humour

WizKid goes shopping BLUE DIAHOND #150 - TOKEN



included and it'll make you look all wistful and you'll start saying things like "Ee

that wishing well (Look at the grabs) might look innocent, but it isn't. Wirklid is lucky. As well as being a head, he can also gain a body and other items to help him on his quest. Once he's a body, anything can

Once he's a body, anything can happen. You might think that Wilkid is one of those games where you play the control of the con

has to be collected from each area to complete the game. If you don't col-lect enough cats then when you get to the end of the game you'll be told it's "Game Over, man

As well as running/flying around the screen bashing blocks and doing several surreal things, there's a shooty bit. If you're a fan of the first game then you'll be well chuffed with this part of the game because all the graphics and sound from Wizball are

things like "Ee those were the days."

On yeah I nearly forget. When you till the baddes a coloured bubble will appear. When collected the bubble will appear. When collected he bubble will appear when collected he bubble of the collected will turn into a note. When you've collected all the notes, the game will cohe and with this dain you'll be able to buy loads of stuff. Plus sometimes a special bubble will appear - collect the red note and you'll be able to bounce the blooks on your head or bounce the blooks on you had not been supported to the property of the property o

bees, penguins and butterflies Get hit too many times by these fearsome baddies and you'll lose a hit point. Lose all your hit points and you'll lose a life. Lose all your lives

and it's game over.
WizKid is weird with a capital W, but it's absolutely brilliant. It's original, it's funny, the graphics are beau-tiful, the sound is good, it's very addictive indeed and very easy to get



to grips with.

If you don't buy Wizkid you may
well regret it, if not today, then
tomorrow and for the rest of your life.
It's a real work of art if you sit back
and take a good long look at it. For
starters it combines so many playing

It's wild, wacky, bizarre, surreal and funny. It's everything a game should be. Ocean should go and see Sensible Software and thank them very much and pay them loads of money because after the disappoint-ing Epic this is like a big breath of fresh air which should improve Ocean's current reputation. WizKid is wonderful and I think I'm in love.



VISION















LIVERPOOL FC:

The Computer G

GRANDSLAM # £25.99 # 1/2 meg # Joystick # Out now



ascinating facts about the origins of Liverp You learn something new every day

rouably one of the most successful teams of all time have made it to your ST courtesy of irandslam, Liverpool FC: The Computer Game stars all the Anfield blokes in a soccer game that Grandslam think will rival the success of Kick Off 2

Actually, when you think about it, Grandslam is an interesting name, when you consider that for the rest of this review I'll be slamming their rather poor effort.

The game loads to the accompaniment of a remixed version of "You'll Never Walk Alone", the song that's become synonymous with Liverpool FC. Unfortunately, Grandslam have slaughtered the tune to a point where



The game in progress. Oh, come on, you try to think of an amusing caption for a game this bland

playing in the background, you're treated or should that be subjected - to a brieflish) history of the club, with little digitised pictures of all the current players underneath.

Liverpool fans should like this hit the first time they see it, but for the rest of the world at large, and for people who've already seen it, it's a shame you can't skip it.

After extensive intro pictures of FA Cups and suchlike, you eventually get to the main menu screen. From here you can choose whether to compete in an EA Cup competition or a full League Season, and you can choose a two-player FA Cup final.

You can also change your squad about. although of course you can only choose

> When you've twiddled around with the options you can start a practice session or play a proper match. Practice is definitely recommended, since the control system takes a bit of getting

The pitch is viewed from an angle not unlike Rage's Striker, with one player heading up and "into" the screen, and the other coming down and "out of" it. The player currently selected is marked by a four pulsing arrows around his feet, and you move him around with your loystick.

The fire button kicks the ball, although not as in KO2. There's no way to control how hard you'll hit the ball, the player just belts it as far as he can

This means you'll find yourself running up the pitch with the ball at your feet lit's a sticky-feet control method) and shooting, because stringing together several passes is completely impossible. It's a very awkward passing system - so impractical that you'll give up trying.

The computer teams are quite good, and you'll find that before long they've scored against you. When the ball crosses the line, the view instantly flicks back to the centre circle before you know what's happened.

and it's a bit confusing to say the least. The graphics look OK when the game is paused, but as soon as you see it in action you'll reconsider. There are precious few

frames of animation for the players and the game really looks a bit tacky. The ball responds so completely unrealis-

something

But that's about it. I'm afraid. From the moment you start playing and think "This is all right" to the moment a few minutes later when you think "Blimey, this game's been bunged together in a few weeks to cash in on a good licence, when in fact it's complete tripe," it's all gradually downhill.

VISION

AUDIO nusic but feeb

crowd sounds PLAYABILITY **66** keep on playing. ADDICTION

000

lasting anneal

tically that you'll laugh... it shoots along at

200mph and then stops almost instantly. It's

as if the pitch is covered in honey or

pool FC: The Computer Game? Erm. it's

endorsed by Liverpool FC, which will mean

it's bound to sell a fair few no matter how

bad it is. And the presentation screens look

So what is there that's good about Liver-

que mode has some

The simple fact is, that no matter who you support, you have to admit that Liverpool are quite a good team. And the other simple fact is that even if you support Liverpool, you'd have to have a bit of a mental disorder to fork out for this.



servative party we've got to th Liverpool FC: The Computer Game



stunning array of players available

04:39 DEFENDER

The main menu. From here you, er, click on thing





get out alive again. That was his job. For Fishface was a Seal.

His mother had never quite understood, asking him why he wasn't in a circus balancing balls on his nose, but Fishface knew deep down inside that the Seals were the last hope for the civilized world. Or

something.

Yes, you too can enter a war zone from
the comfort of your own living room, thanks
to those terribly obliging people at ICE. In
fact, some of you out there may remember
that Fireforce was originally developed by

Electronic Zoo.

But since their collapse, ICE stepped in and revamped the game before releasing it. If you did remember that, and no cheating

If you did remember that, and no cheating now, give yourself two Brownie points. Boot up your ST with Fireforce disk one

can select an existing Seal or name one of cour own, a new recruit.

Then you are given several missions to choose from including assassinating a Mid-

choose from, including assassinating a Middle Eastern officer and destroying a bridge in a tropical war zone. Equip yourself with a few guns, then too-

helicopter and left to fend for yourself in a hostile foreign environment, armed only with a machine gun, a handful of grenades and your packed lunch.

plete the mission and arrive at the predetermined rendezvous point – the far right of the level – if you want to get out alive... otherwise, wou'll be listed as Missing in Action.

walk right shooting anyone and anything you see. It's all a bit reminiscent of the 8-bit



Ooh, you heartless chappy you, shootin helpless bloke

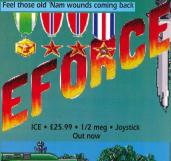
actually surprisingly good fun, and the graphics and sound complement the action well.

on to bigger and better things. If not, ther it's a sad screen, a Purple Heart award, and a new character for you, matey.

the world of wander-and-shoot games, and it's guite a competent program. So if you're the type of individual who likes nothing better than bobbing out and gunning down a few Arabs before breakfast, Fireforce could list be your thing.



mes Lawton sets out armed only with a gur nd a small – but perfectly formed – Matchbo







WELLS, Francisco Marie Landers

Well, you're dead. It's all over. And not even so much as a 'Thanks for giving up your life,



The deployment screen where you are brid





82%







Getting to grips with the Temptress

Another ripping Gamer quide

You lucky people! This month we, the lovely lovey people at Gamer, and a certain gentleman, bring you Lure of the Temptress - the Solution. This time it's personal, with wings. So if you were as baffled as we were playing it you may sit down and complete the blasted thing with no effort at all, you spineless workshy fons



CELL

as possible. When the skorl passes you to look at the fire, walk out of the cell, and close and lock the

OUTER CELL

Look at the prisoner. Go to the guard room. Look at barrel. Look at the tap on the side of the barrel. Get the knife on the barrel. Get the bottle.

Use the bottle on the tap. Use the knife on the sack. Look at the sack. Go to the tourture room. Use the knife on the leather cord on the rack. Go to outer

cell.
Give the bottle to the prisoner. Look at the bricks on the eastern wall. Tell Ratpouch to push the bricks.
Walk through the opening in the wall.

SEWERAGE

Find the man called Mallin (hint: he usually hangs out in the alleys, the severage or the weregate). Talk to Mallin. Accept his offer. Go to the village shop. Talk to the shopeeper (Ewan). Give Ewan the metal bar. Find the blacksmith (Luthern, Talk to Luthern toxic. If you are in the Blacksmith's working then get the indication on the floor in the foreground. If you're not there, go

Go to the Magpie Inn. Talk to the barmaid (Nellie). Give her the gem. Talk to the man at the table (Morkus). Bribe him then talk to him. Then go to the blacksmith's and talk to Luthern. Give him the

forth Go to the Maggie courtyard. Talk to the man sitting in the middle (Grul) about the black goat. Go to the Severed Arms (Initio do not in the term of the Severed Arms (Initio do not infinite there. The seer has been valered down). Talk to the woman lentiting. Talk to her about Taligh. Examine the diary the gives you. Go to the marketplace. Give the lockspick you got from Grub to Rehpourt. Look at the door of Talight's house. Look at the look on When the storn (In/Waye) comes to look at the look, well have been (Invented and the Control Talight) when the look of the Control Talight on the look of the look of the Control Talight of the Separation. Use it is interface on the cill burner. When the reaction has finithed, use the flash on the look purser. When the reaction has finithed, use the flash on the loop. Drink from the flash. You should now be dispaired as Seleno.

ishee, the the finals on tire clap. John when the bed displicted as Selena.

Go to Middle Street. Talk to Uruka (the skorl guarding the Town Hall doer), Open the door, Go inside the town hall. Talk to any skorl inside the town hall. Then go and find Wayne and talk to him. Go to the Magple taxven. Talk to Morfus. Go to the Apothecary workshop. Talk to Goewin (if she is not there or the door is locked.

then wait until she arrives;

Find draptouch and Lisk to bits. On to the Apathecary workshop,

Find draptouch and Lisk to bits. On the Apathecary workshop,

Find Salin, Talk to Mallin factors; flow, Look at the poster,

Find Salin, Talk to Mallin factors; the book, Go to the Monks

Ledge, Give the book to the monks. Talk to the Monks several times

Ledge, Give the book to the monks. Talk to the Monks several times

Ledge, Give the book to the monks. Talk to the Monks

Ledge, Give the Ledge, Contained, Call Call Ledge,

Ledge, Contained, Call Ledge, Contained, Call Ledge,

Ledge, Contained, Call Ledge, Call Ledge,

Give the constant Form Cattrions agende. Go to the Apothecary

Workshop, Give Goewin the constant. When Goewin finisher, ask her

if the Instants is raddy.

workshopkinn 1 stady.

Then go for a walk around the village, so the potion can reach full strangth. Go back to the apointeern workshop, and talk to Govern about the spell and the weregate. Go to the Severed Arm.: Talk to the barbarian [Ultar] twice. Go to the Severed Arm.: Talk to the barbarian [Ultar] twice. Go to the weregate. Talk to the statues. Find Govern and all it to her. Go to the weregate again and talk to her again. Walk through the were gate doors to the entrance ever.



THE CAVES

Look at the skulls, look at the right skull, Go to the green cave and walt for Geevein. Look at the skulls in the green cave. Tell Geevein to go to the entrance cave and pull the left skull. Go to the blue cave. Look at the skulls. Full the right skull, and wait a couple of minutes for Geevein to enter the green cave. Pull representations to the couple of minutes for Geevein to enter the green cave. The couple of minutes for Geevein to enter the green cave. The couple of th

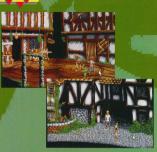
Iskull. Go to the green cave. Make sure Goewin is always with you. The weregate doors should now be open. Go to the marketplace. Wait for the skorl (Wayne) to go into Ewan's shop. Look through the shop window. When Wayne leaves the shop, talk to him. Then go into Ewan's shop. Talk to Ewan, then walk out of the shop.





DRAWBRIDGE

Here you will have to fight and kill another monster. Then walk through the door to the left of the drawbridge to defeat the evil temptress Selena.

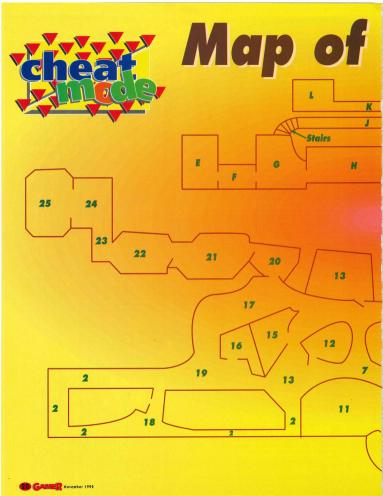


WINE CELLAR

Look at the three casks in the foreground on the left. Look at the burg on the top cash. Go to the littlenet. Look at the corracts on the burg on the top cash. Go to the littlenet Look at the corract on the labels. Go to the wine callar. When the boy is in the wine callar, talk to him and sell him that War wine cash of the labels of the labels of the labels of the labels of War wine cash of the labels of the labels of the labels of short burgers of the labels of the labels of the labels of Pull the labels of with the tongs, then hide behind the right pillar Pull the labels of with the tongs, then hide behind the right pillar Look at the lever. First Minnow again to make him follow you to the agreement, I he first Minnow again to make him follow you to the agreement.

Look at the lever.
Find Minnow again to make him follow you to the gateroom, if he is not there already. Tell Minnow to pull the lever. At the same time you must operate the winch. The winch should him.
Go up the stairs to the second floor at the dining room [hint: save the game here]. Then go through the door on the left.

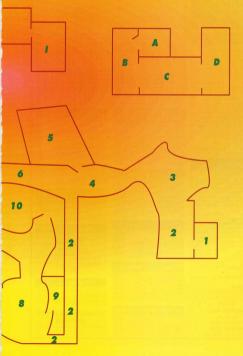




The Temptress

Now then, here's a thing. We've got a grand big map for Lure of the Temptress and nobody to thank for it because we don't know who the hell

sent it in. Well we don't care—
it saves us a job anyway. So
peruse at your pleasure and
then, erm... lure the
temptress. Or something.



KEY
A: Cell
B: Outer cell
C: Guard room
D: Torture room
E: Wine cellar
F: Kitchen
G: Passage
H: Dining room
I:Gate room
J: Dining room balcony
K:Drawbridge
L:Selena
1: Sewerage
2:Alley
3:Castle gate
4: Apothecary lane
5:Apothecary workshop
6: Castle wall
7:Blackfriars row
8:Magpie courtyard
9: Unknown
10: Monk's lodge
11: Magpie tavern
12: Tiadgh's house
13:Marketplace
14: Town hall
15:Village shop
16:Severed arms
17:Weregate
18: Smithy Street
19: West Street
20:Entrance cave
21:Green cave
22:Blue cave
23: Black cave
24: Monster cave
25:Dragon cave
26:Blacksmiths

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Display

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Graphics

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balainces and expenditure types
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ENTRY FORM

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Aspects of the ST

Six pages devoted to your favourite applications on the ST

midi and music 💠 emulation 💠 communication 💠

like classical music. Those old composers sure knew how to write a good tune. Even if you've removed Radio 3 from the dial and don't know a concert from a concerto, you will have heard many classical tunes masquerading as pop and rock music.

Mozart's 40th Symphony is one such tune. Two versions of it actually made the charts at the same back in April '71 - one by the Sovereign Collection and the other a better-known version by Waldo de los Rios.

Classical

SPREMBE a b c d

This version under discussion here is the original classical arrange-

ment, not a pop version, and it comes on disk as Midi files. It was produced by Paul Sanders and Philip Crewdson who together form

It took around six months to put all the files together and then it was arranged by Dan Palethorpe, lead flute with the FNO.

Oscar Music.

There are five files - one for each of the four movements and one containing a Svs Ex dump for the Yamaha SY77.

The files were constructed in C-Lab's Notator but they are also available in Standard Midi file

Amazina

Using the SY77 dump, the result is absolutely amazing - one of the best performances of a piece of classical music ever to grace a sequencer. If you've ever tried your hand at arranging a piece of classical music you'll how difficult it is.

All the instruments have to balance one another and there must be dynamics (rock and pop is one of the few music few forms which only seem to recognise fff signs!).

You've probably sneaked a look at the price. Well, a lot of work has gone into the production and Oscar are expecting a lot of inter-

Roll over... Mozart?

est from the educational market. The files let you isolate and analyse themes, harmonies and counterpoint. There can't be a better way to study the symphony.

If you don't have an SY77 you'll have to create your own orchestration. The instructions include suggestions to help but you'll still have

ExpoThm1 1

2 Oboes 3 ClrntsBb 4 Bassoons

to balance the instrument sounds Oscar also produce a newsletter

which is subtitled Information Technology in Music Education, so you can see where the auvs are coming from. It's free to interested

Oscar's Mozart Symphony No. 40 costs \$49.99. More from Oscar

Music, 91 Brick Lane, London, F1 6QN, Tel-071-377 6294

278021 DW intern 218.8888 1/16 2/ 2 CC CC.CCC 1 1 1 1 Oscar's version of

Mozart's 40th Symphony on the main screen of Notator, ready and



EDIT

The opening bars of Mozart's 40th Symphony in Notator

Ian Waugh with all the latest ST music releases, including a versatile selection of sample CDs

Melville Marriott Music Media

Regular readers will know that there is a wealth of music software out there in PD land. In fact, many PD libraries have an extensive music section

Melville Marriott however are music media specialists which just also happen to run a music PD library service.

Their policy is to include only useful programs in their cataloque which contains more than 50 disks. These include a complete set of utilities for owners of Yamaha PSS Instruments. editors for many popular instruments such as Roland's D-110. Yamaha's DX27 and FB-01 Kawai's K1 and Casio's CZ instruments.

There are the main PD sequencers such as Alchimie Junior and the Accompanist plus song files for programs such as the Music Studio and the Waddington Sequencer, There is also a host of utilities and demo programs.

MM also operate a telephone helpline and can supply books on all aspects of Midi and computing and well as sheet music, cassettes, CDs and music sequences on disk. They also have a second-hand equipment exchange service which costs ten per cent of the purchase price - payable only when you sell.

For a one-off fee of £5 you become a registered user and will receive regular updates plus a ten per cent discount on everything except books.

All PD disks are £2.50 each with a 85p p&p charge for orders under four disks. It's well worth getting the catalogue disk to see what's out there in PD music land. More from Melville Marriott, 46 Market Square, Witney OX8 6AL. Tel: 0993 779500.

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Reat 'n'



Bass

Yes, folks, it's another mega collection of grooves from Heavenly Music. This time it's a collection of drum and bass patterns. It's like Dr Beat but with bass and auitar tracks.

There are 50 styles here including rock, soul, pop, dance and Latin rhythms. The bass and quitar grooves are all in the same key. The idea is for you to use your sequencer's copy and transpose functions to create your own chord sequences.

There are a couple of demo files which show some of the possibilities but they only scratch the surface

The way to use it is to find a pat-

tern or two that fit the type of song you have written - or are about to

I'd ignore the instrument parts at this stage (although you may like to use them for inspiration) and concentrate on aetting the rest of the song down. Then you can play the instrument parts and transpose them into the required key. Some of the patterns are 12 or 16 bars long but many are over 50 bars in length.

You may have to assign suitable sounds to the instrument tracks but the drums are on the now-standard Midi channel ten. The docs

include a drum map so you can use the patterns with gear other than Roland's U220 or MT-32.

I love it! Beat 'n' Bass is £19.95. More from Heavenly Music. 39 Garden Road, Jaywick Village, Clacton CO15 2RT. Tel: 0255 434217

Music Update - November

First, the bad news. Heavenly Music's complete rendition of the Psycho score in Midi file format has not arrived. So, I can't review it! Perhaps next mon I've asked my mother to look into it. Even now I can hear her ringing 0255 434217.

 Now the good news - Fred Fee from Newport has gram which featured in the August col With a little help from his wife's cousin in Zurich

he's translated the instructions and put them on a disk in Ascii. Protext and Timeworks formats, Nice

It's certainly cleared up one or two points. The files along with the Kadinski program, on disc MID.50 More from the ST Club on 0602 410241.

I've got to mention this! Included in a recent press release from Casio was news of a new personal stereo. The W880 has few frills - Bass Boost and Auto

Stop - but look at the price - £7,991 Available at a hi fi dealer near you.

Gailts have released yet another update to Sequencer One Plus - v1.2. Main improvements are the addition of keyboard shortcuts for menu bar to those who have joined the Automatic Update Scheme. More from Gajits on 061-236 2515.

The trouble with buying hi tech gear is that it soon goes out of date and loses its value. Ampsound, fairy godmothers that they are, have come up with a solution

to them in working nick five years later, they will give you back what you paid for it Pity they won't work this in retrospect. I've a lot of gear which isn't worth the cardboard box it's resting in under the stairs. More form Ampsound on 0727

Sample Fever! flanged sounds, atmospheres, sequences,

Sample CDs are now big business with several companies very active in the market. We've looked at two of these CDs in this column. Both cost a tidy £49.95 but offered excellent value for money containing 1,000 samples!

I've just received three new CDs from Time + Space which contains some super loops as well as sounds effects and off-the-wall stuff. And they're cheaper!

Looping (\$29.95) contains over one hour of material - 250 loops, snare fills, background loops, effect loops, ambient FX, techno beats, subsonic waves and so on. There are also lots of individual drum sounds.

Inspiration

The really nice thing is that many of the tracks suggests bass and lead lines. They're actually a great source of inspiration.

There is also a Loop Classics CD (£25) containing 75 classic rhythm breaks in stereo lasting around 30 seconds each. This wasn't in the review pack but if it's anything like the Loop CD It'll be well worth a listen.

Bizarre Planet (£35) is another hour plus collection of sounds. This time it's weird and wonderful outer space sounds - subsonic waves, phased noises, computer vocals (actually, your ST can do these just as well by itself), bubbles,

planetary machines (I), and electronic percussion, if you're looking for something a little different, check this out. Time + Space also has a CD called

Science Fiction (£35) containing space and electronic FX but this wasn't in the review pack, either, The final set is Sound FX Collection (£39.95)

which contains not one but two CDs containing over two hours of material! The tracks are divided into seven sections - office and industry, sports and leisure, house and garden, nature and surroundings, moreover (a collection of miscellany), human, and transport and traffic.

You want ambience? Here it is, from a game of ping pong to a showing being turned on and off and someone brushing their teeth (is that an Oral B40 I detect?).

There's lots of atmospheric sounds such as wind, rivers, sea, surf garden and country sounds. There's even a sample of a cat and a vacuum cleaner (no, the connection escapes

The only niggle is the fact that some of the sub-grouping are spread over the two CDs which means changing them if you want to sample (hal) all the sounds in one section

Sampling is an undiscovered art form. You can be very creative with it - turning breaking glass and a blowed bottle into a scraped flute sound, for example (well, you can try). In an ideal world, musicians would have to time to create their own samples. In our world this is not always the case Besides, how many plates will your better

half/parents allow you to break to create the ultimate "broken crockery" sample? No, sample CDs are an excellent

way to access the sort of sounds which would be very difficult if not impossible to sample vourself.

Dedicated

These CDs are not beyond the pocket of the dedicated samplist armed with an ST-based sampler although, in truth, the quality of the CDs exceeds the quality of most computer-

If you're really keen, you can buy the five CD sets for £139 which is almost like buying four and getting the fifth one free. I'll let you sort that out with your bank manager. I'm just wondering how to work a flushing toilet sample into my latest techno dance mega mix.

More from Time + Space, PO Box 306, Berkhampstead HP4 3EP, Tel: 0442 870681.

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Keen to get a "proper" program going, we content ourselves with learning the basic disk and file management commands such as DIR and CD and have no desire to dwell on the more obscure sections of the DOS manual.

This is a bia mistake, however, as DOS is a very flexible and powerful operating system which will richly repay the effort to come to arios with its less obvious features. A few hours spent getting to know the command prompt can even save

Save money? Yes, indeed, Now that I have your attention let me show you how simple DOS level commands can provide a useful telephone number lookup facility without the need to invest in any utility software.

Begin by entering, in random order, the names and numbers of your friends and business contacts. and saving this to a disk file named "phone" on drive C:

Smith, Alan	081-678429
Black, John	021-427888
Atari UK	0753-533344
Acces	0717-49000

To sort these into order, enter the "filter" command SORT in the following fashion:

Cosont IYz K M, 'x@ find "Atari" phone and the screen will display:

0753-533344

With a long list of contacts, you will want to stop the display from scrolling through by using another filter command, More, to restrict the display to a screenful at a time:

Cosort sort prn

This example just scratches the surface of the power of the DOS filter commands FIND, SORT and MORE, of course. Combined with input and output redirection and the ability to write batch files containing these commands, you can write fairly complex utilities with a minimum of programming knowledge.

So dig out that manual - you should have one if you acquired your operating system disks legally - you did, didn't you? - and have a go: DOS doesn't bite!

Getting to know DOS

Transfer time

It's all very well emulating other computers such as the IBM or the Apple Macintosh and running their software, but what if you want to use the files generated back in Atari mode?

File transfer between the different operating systems can be one of the greatest headaches of the emulation game, especially with graphics as there is no equivalent of the Ascii standard for

Stripped But Ascii - also known as "text

only" or "raw text" - means wordprocessor files stripped of all their formatting and text effects such as italics or bold for emphasis.

Re-inserting these manually can be a cumbersome process and you need to have a printout of the original file to know where all the formatting instructions were supposed to go.

Some wordprocessors offer an alternative to Ascii, however, designed specifically for exporting text to another application: the "Rich Text Format" (RTF).

It works by replacing the program's own formatting codes into plain text instructions within the

The state of the s

MOTERT Document RIF Mat 2x SM Ruthm SCR f3 for Head Ch 1 Line 1 Cal 1 Insert No markers set 16/26/86

grams it can be done), and your file will be back to its original state, or at least something very close to it, in only a fraction of the time normally required with

standard Ascii.

Protext can

rough its

handle DTE files

Convert utility, but

for demonstration

conversion was

done manually

Protext's search

font and other

header can

simply be

and-replace. The

information in the

normal Ascil character range. which the receiving program can then in turn translate into its own

control codes The only ST software I know of which supports automatic RTF import is Protext, but any wordprocessor or indeed desktop nublisher can be used providing its search-and-replace function permits the insertion of non-print-

Just tell it to replace "\tab" with a tabulator code. "\par" with single or double carriage returns, and so on

able control codes

Finally, delete the paper size and font information at the top of the RTF file (unless you are willing and able to translate these as

well, of course - with some pro-

180 LGS Search format root Document Brodour 81/11 Nesse Sma Se

The original text file, written using Microsoft Word v3 running under Spectre GCR, and showing the tabs at the beginning of paragraphs as well as bold Exporting the file as Ascil to the ST environment. these features would normally get stripped out.

Günter Minnerup brings you some hot database and wordprocessing emulation tips in the most upfront emulation column in the business

Get writing!

Remember this page is for you if you have a problem with any aspect of DOS, Apple Mac or indeed any other emulation on your ST, let me know and I'll endeayour to find the solution

Perhaps you have a handy tip to share with other users, or have discovered a hitherto unknown feature - again, drop me a line and I'll let the world know.

I cannot possibly try all emulators with all conceivable hardware peripherals and software configurations, so any reports of incompatibilities and problems with certain combinations are always welcome.

Write to Günter Minnerup. Emulation Aspects, c/o the editorial address, or send email to gminnerup@cix. Please understand, though, that I cannot normally respond individually, and that copy for this page is written well in advance so it may well take a couple of months or so until your idea or query appears

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dir directory

get filename

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quit

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pass andre@cix.compulink.co.uk rd /nub/STARTRFK/st-tng/NCSR-PS-5A8 DONE get sttng-5.0s

The fto log contains: perting to fto.coe.montana.edu

228 pdg.coe.montana.edu FTP server (Version 6.9 Thu Oct 18 1991) readu.

331 Guest login ok, send e-mail address as password. PASS andre@cix.compulink.co.uk

230 Guest login ok, access restrictions apply. ---> CMD /pub/STARTREK/st-tng/NCSB-PS-508

"/pub/STARTREK/st-tng/NCSB-PS-508" is current directory.

237 'publishmentary magnetic m

226 Transfer complete.

When you request a file via an fipmail server, it will usually send you a full log of the FTP session. This is useful if the session fails for some reason

Global files

ast month, if you recall, we discussed the Atari Archive system in America, and the Bart Email server which accesses the material stored there. This site acts as an ideal repository for Atarirelated files, but what if you want to look for other material?

There are a number of sites all over the world which provide access to much larger stores of files, usually using a system known as FTP - File Transfer Protocol. This allows any Unix computer in the world to loain and download files from other Unix machines, normally via high-speed Internet links.

Of course, this is all well and good if you happen to have a Unix machine costing several thousand pounds sitting in your front room.

You don't? Well neither do most other people, which has prompted a number of public-spirited groups to allow the use of their site's spare capacity to fetch files, and Email them directly to your mailbox.

Free Email

One such group is the UK Unix User Group, based at Imperial College in London. Their service is available to any UK site with which they can exchange free Email - so that allows access from Fidonet BBS sites, larger services such as CiX, and any other bulletin boards which can send mail to their Internet address. I've been asked to point out that

the ftpmail service is provided on a "best effort" basis, and neither Imperial College nor the UKUUG will guarantee the service, nor be held liable for its use. They are offering an exceptionally useful facility, so please don't abuse it.

To access the ftpmail server, all you need to do is send an Fmail message to the ftpmail@doc.ic.ac.uk. The message should contain a short series of commands telling the server where the material you want is located, and the required filenames

Commands

If you send an empty or erroneous message, fotmail will respond by sending you back a list of available commands.

For example, there is an archive site in the USA, called ftp.coe.montana.edu. which stores episode guide information on dozens of TV carlos

As a big Star Trek: The Next Generation enthusiast. I was especially interested in a 500-page guide to the series, updated monthly with all the very latest information

To access these files. I sent the

André Willey shows you how to gain access to exciting files

from all over the world

FTP Email commands

The commands used to access FTP Fmail servers vary slightly from machine to machine. The Imperial College server uses the following commands:

reply-to Email-address> This tells the server where it should send its responses. Otherwise, it will try to work out your address using the From: line in your Fmail message.

open strename This line specifies the remote FTP site which contains the files you want. If the site provides ananymous FTP faciliusername password ties (most do), you should omit both the username and

password sections Tells the system in which directory the files you require ed directory are located. Note that Unix systems allow upper and

lower case directory and filenames - for example, a directory called PUBLIC is different to one named Asks for a listing of all the filenames in the specified

directory. If you don't give a directory name you will receive a listing for the system's current directory

Requests a file to be send to you. You can specify a directory here if you wish, but it's optional if you've already set it using the cd command

If the file you are requesting is a large Ascil text file, you might prefer the system to compress it before sending it'il save you a fortune in download telephone bils!

Tells the system that the files it will be fetching contain binary data (programs, ARCed files, etc.) rather than plain Ascil text. Normally you can omit this command.

and binary made will be assumed As above, but specifies Ascil text files

Tells the system that any binary files it fetches should be encoded using the uuencode utility before being sent to you by Emal

Tells the system to use the BTOA utility for encoding binary files. It's probably best to stick to the default uuencode mode.

Requests that every file sent back (even directory listings) should be unencoded. You'll only need to use this if your mailer seems to be having trouble with returned

As above, but forces the use of the BTOA protocol,

End of instructions. Anything after a guit command will

following Email message to ftpmail@doc.ic.ac.uk, and within an hour or two, several large messages appeared in my mailbox!

reply-to andreacix.compulink.co.uk cd /pub/STARTREK/st-tng/ACS8-PS-508 compress get sttng-1.ps get sting-5.ps

You'll notice the compress and

uuencode commands. The com-

press option works rather like the

ARC program used on our

CoverDisks, packing large files down so they can be downloaded You'll need to get a copy of

COMPRESS.TTP (from your favourite BBS) in order to uncompress these files. The uuencode command forces these binary files to be sent over the Email network as plain Ascii text, and requires a similar UUDECODE program to unpack them (as described last month).

Message

Some files may be too big to be sent back as a single message, so the system will automatically split them into several parts which can be put together again later using a text editor. If the parts are uuencoded, just

save each message to disk using filename extenders .UAA, .UAB, .UAC and so on. The decoder program will sort them all out for you.

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Design a font

The PCG Font Designer has been ground for some time but with the recent boom in the number of outline fonts available in the public domain, it is really starting to come into its own for me

Basically the Font Designer program lets you load outline fonts in its own proprietary format, ECF, and edit them to your heart's content. There are even alobal editing commands to expand or compress font

Great, I hear you say, but how many people feel like designing their own font from scratch? Not many, of course, but the best bit about Font Designer is its range of conversion utilities

Outline fonts in Calamus, PostScript Type 1 and PageStream format can be freely converted to any of the other formats - instantly making several hundred PD typefaces available to users of Calamus, Didot and

PageStream, You can buy disks full of CFN fonts from any good ST-based PD library and there are plenty of interesting PostScript fonts available

from PC-based libraries. Another bonus is the ability to create bitmapped PageStream fonts



which are much faster to load and redraw on the screen. The program costs £100 and is available from PCG, 11 Marsh Street, Barrow-In-Furness, Cumbria LA14 2AE or telephone 0229 836957.

font utility

here is a certain thrill that comes with the acquisition of a new typeface, especially one of the more aesthetically pleasing classical designs, but there are dangers

The wrong choice of typeface can ruin a perfectly good document and as our collections get larger, more mistakes are made.

Over the next few months, I'll be looking at several different typeface categories and discussing the right way to use them.

Nothing will be written on tablets of stone - improvisation and experimentation is the key to good design - but hopefully it will provide a starting point for many of you who are just starting to expand your font collections.

The most widely used typefaces are undoubtedly the common or garden serif typefaces which are used as body text in magazines. newspapers and books.

Most common of all is Times Roman, also known as Dutch in many GDOS applications and Serif in Timeworks 2. This broad category of typefaces can, however, be divided up into three smaller categories - Old Style, Transitional and Modern

Presses

Old Style typefaces were used on the very first printing presses and the category includes Garamond, Caslon, Goudy, Bembo, Plantin and Cloister Old Style, typefaces which are just as popular today as they were then. Caslon and Garamond are my own personal favourites but they are all very

Most of the Old Style typefaces are beautiful, elegant faces with a well rounded appearance. There is very little contrast between the

Choosing fonts

Garamond Antiqua Stempel Garamond ITC Garamond Book

the best known Old Style serif typeface. Examples here include PageStream's own Antiqua version and some PostScript variations



Dida

thick and the thin strokes and the serifs are relatively heavy. This is itself a reflection of the technology available at the time thin strokes and delicate serifs were virtually impossible on the earliest

hand-built printing presses. This can provide an advantage for those of you with low resolution printers - Old Style typefaces tend

more delicate styles used for text-heavy documents

to reproduce far better than later, Old Style typefaces are best such as newsletters, books and business reports. Such conservative typefaces can actually help convev stability and authority in a publication and many scientific and technical books and journals use Old Style typefaces for body text.

In the 15th and 16th century. when they were first introduced. many of the typefaces were used in subheadings and titles and the upper case letters can be used quite naturally for relatively unobtrusive crossheadings.

Classifying type is the first step towards understanding its use, says Andrew Wright. Can you tell your Old Styles from your Transitionals

The Italic versions are characteristically angular with exaggerated serifs, very useful for captions or emphasising sections of text. The disadvantage of an Old Style typeface as body text is that the page can look a little grey owing to the uniform etrokee

Modern Serif typefaces are completely opposite in appearance - there is a strong contrast between thick and thin strokes and the serifs themselves tend to be rather more ostentatious.

They can make pages look very black and action-packed - not bad for boxed out sections of text but tiresome when there is a lot of text on a page.

Serifs

Personally I would avoid using a Modern Serif typeface for body text. preferring instead to use faces such as Bodoni, Didot and New Century Schoolbook for subheadings or attention-grabbing purposes

Most of you will have guessed that the most widely used typefaces fall somewhere in between the Old Style and Modern classifications.

This category is called Transitional and it encompasses a wide range of good, solid typefaces such as Times Roman, Century Old Style and Baskerville.

The typefaces are moderately stressed with smooth, even strokes. The serifs are visible but not ostentatious and the characters look well balanced and refined. In fact, they are probably the most readable of all typefaces.

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The answer may well lie in software specifically written for your sort of business. For instance, an insurance salesman has completely different needs from that of the local newsagent, but both will be using a database of some sort, tailored to their specific requirements.

The first thing to do is to ask others in the same line of business what, if anything, they use. The ST has been around for long enough now that a wide range of specialised software has already been written for it. Try letters pages and bulletin boards, and you might just strike lucky

Assuming you do find someone with the software you need the next problem is where to obtain a copy for yourself. If you're buying from an individual, make sure you receive the whole package including the manuals and original disks.

Destroy

The original owner must also destroy all backups and other copies at the same time. It's also worth checking that the owner is allowed to re-sell. Some software contracts prohibit this.

Using pirated software to run your business is never a good idea - it can bankrupt you. At the very least you'll have to destroy or hand over every copy of the software you possess, including your working copy, to whoever does own the copyright.

Think of the disruption to your business that might cause! The alternative is to pay for it all over gagin, and at the proper price to boot. For your own peace of mind. make absolutely certain that the seller owns the copyright.

No two businesses are exactly alike, so parts of the software that are vital to you might have been barely tested before you start using them. What do you do if you have a problem or find a bua? Is support available - is the seller capable of supporting you? - and if so, on what terms?

Software support can be an expensive and time consuming

Horses for courses

business, so don't be surprised if you are asked to pay for it. It's not unusual for support and maintenance of specialised software to cost more than the software itself

Find out what to do if you come across any buas. Will the supplier or the original software author fix

them for you? Who pays? It's vitally important to ask these questions, and to get satisfactory answers to them - preferably in writing - before you buy, other-

wise you might find you've made an expensive mistaka

Ideally you'll find a piece of software that does exactly what you need at a price you can afford and with full technical backup. It's more likely that the software will

do most of what

you need it to, but not everything. Even when the software is ideal, no two businesses develop in exactly the same way, so it's almost certain that at some time in the future you are going to need to have changes made to it.

Specialised packages are written by all sorts of people - software houses and one-man-band programmers - either under contract to someone like vourself, or to sell on for themselves. People in your line of business might also write software for their own use

Software houses and individual programmers are usually more than happy to oblige - after all, writing software is their profession but arranging for changes to be made to software written by somebody else in your line of business can cause many, many problems.

Software writing isn't their profession. Are they capable of making the changes you need? Even if they

do have the necessary technical skills. are they willing to do the work, and do they have suffi-

cient time to do a good job for you as well as running their main business? Also, do you want a potential rival knowexactly how you run

your business? Whoever you buy the software from.

ask them if you have access to the source code for it. Software houses are usually reluctant to do this, to say the least, but do try to ensure that you are guaranteed a copy of the source code if they go bust, or decide to stop supporting the package for whatever reason.

One-man-band programmers are usually willing to sell the source code to you as an optional extra usually a very expensive extra - but again make sure that you are entitled to it for free if they are unable to do any more work on it themselves for whatever reason.

When you are buying from

A computer is only as good as the software it runs. Getting the right packages for your business is extremely important. Pat Winstanley has a few pointers somebody else in your line of business, it is vital that the source code be included in the price, even if they are willing to make any changes you might require.

What if there is no software available to do what you want what are your options? Basically you have two choices - write it vourself, or get somebody else to do this for you.

There isn't the space here to give you a detailed run down on how to go about writing your own software, but the "software develcoment cycle" as it's called is an area where a little knowledge can go a long way if somebody else is doing the coding for you.

Half decent

Start by writing down in a single sentence what it is you want the software to do for you. For example: "Automate the commission records and payments for my multi-level marketing scheme."

Then list, in rough order of priority, what the software must do to achieve this, such as:

Record each sale by me Record each of my distributors

Keep a list of customers and their

purchases Calculate my commission on every ente

Calculate my distributor's commission on their sales

Believe it or not, you now have a basic software specification - and some very big applications have been written from less!

The next step is to think about how you will use the software. Think about how you already do what you will be asking the software to do.

You'll very likely find this exercise useful in itself, even if the software never gets written! Then write and draw diagrams, whichever is the clearest way, to give a description of the exact process of what you want the software to achieve. And if you think of better ways of

doing this meanwhile, implement them now, manually, before you've engaged a programmer. It's virtually impossible and extremely expensive trying to computerise a moving target!

Armed with your specification and description, you can go about finding someone to write the software - which is the subject of next month's column.

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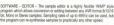


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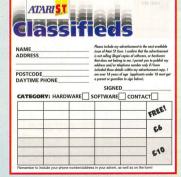
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