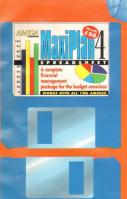
Issue 58 • March 1993 • 13.95 COMPLITING

Artificial Intelligence • MBX1200 • Clarity 16-bit sampler







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is the new PowerScan Professional 3, which also supports the greyscale scanner and will be available as an upgrade to existing users of PowerScan for £15.

Colour PowerScan v3.0 features Real-time 'True-feel' scan option in

quality is lost due to the Amiga only

colour halftone mode Images are stored internally as 12-bit graphics, not HAM. This means that no being able to display HAM images in 4096 colours

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- to the expansion connector of the A500/A500+. The A500 version has a through-port which is compatible with all Amiga 500 expansion peripherals.

The software supplied with this scanner

Amigas Supports Workbench 2 and ECS screen modes

Colour PowerScan now available New v3.0 Scan software

Images are displayed as HAM pictures

only by the amount of memory available

. Images can be saved in various file formats

. Draw freehand, lines, circles, boxes and

polygons in various fill patterns, brush

· Clipboards may be scanned directly, or

any shape can be cut from the main

. The software is compatible with all

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With 1992 fast receding and the novelty of a new year wearing thin, Amiga Computing looks this month into the Amiga's immediate

Unlike some other magazines, however, we won't try to predict which Amigas will and will not be launched. mainly because the experience of last year's "will they, won't they" speculation over Commodore's intentions should be enough to discourage all but the most misty-eved horo-

scope fans. Instead, we've decided to continue the magazine's policy of picking out the most important new releases, both in software and hardware, for detailed review with an eye to the product's importance to the Amiga as

This month's crop includes Clarity, the Amiga's first 16-bit sound sampler, the first A1200 FPU add-on (see Amiga Market), the first full colour DTP package, and a look at the latest wordprocessor

To top this off, we attempt to demystify the Amiga versus PC debate. By taking an upgraded A1200 and an equivalent PC setup, we show that the misery-mongers who would have us believe the PC is both technically superior and better value for money are completely

Predictable? Perhaps, but only because the Amiga is far and away the better machine, not because of any bias on our part.

WHO'S WHO

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USA News More of the latest developments from a troubled American Amiga market.

CoverDisk offer

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ACAS Technical advice for the puzzled, perturbed,

or just plain old bamboozled...

cheap phone call Fifty people must win tickets for the 7th International Computer Show It's a miracle! Ten superb keyboards worth £3.000 to be won!

Public Sector

Reader Offers

Who better to offer you a great selection of unbeatable products?

13 more than their continental cousins?

26

From vitriol to vernacular, Ezra's postban is bulging with your comments and opinions.

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97

Another bumper bonanza of giveaway goodies in 92 our PD and shareware pick of the month.

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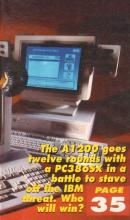
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Turn to page 157







This month's double disk package is designed with both the money-conscious home user and the musician in mind. Maxiplan 4, with its easy to use interface and graph-generating facility, makes money management quick and easy.

Stereo Master is one of the Amiga's most popular 8-bit samplers, and the software for this impressive package is free on this month's disk. If that's not enough for you, a great reader offer enables you to buy the hardware cartridge and join the music scene for only £14.95

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The best of the latest games, plus

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Deus ex machina Your Amiga can have its own personality if you 50

Silence is golden The Amiga's first studio quality sampler, Clarity, goes on test.

Updates The latest releases on review, including some superb textures for Imagine 2.0



Colourful Caxton

Amiga DTP finally goes full colour with the AGA-compatible PageSetter 3.



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The Great British by John Butters Amiga Rip-off

THE British are being forced to pay more for Scotish-built Amigas than buyers in other parts of Europe, Amiga Computing can reveal.

The story comes as the pound sits at a low level against other major currencies, and only a few weeks after Commodore held off slapping a £30

price increase on their computers. During our investigation we found that Germans can buy standard A1200s for about £320 - £80 less than Brits and those on the look-out for an A4000

The same is true in some other neighbouring countries - in France, for example, A600s are widely available at its computer dealers for around £250. Only a few High Street giants can match that in Britain.

But the good news is that Single Market laws introduced at the beginning of the year mean it is now easier than ever before for travellers to bring computers into this country.

An official at H M Customs and Excise in Salford, Manchester said that



A4000: £500 cheaper in Germany

providing the product is for the importer's personal use, no extra tax is paid upon arrival from other parts of Europe

And technical experts say that apart from different keyboard layouts and a slightly lower power requirement, the continental machines are very similar.

Keyboard configurations can be changed through Workbench preferences and the power difference of up to 20 volts would not be dangerous. The real problems would arise if the

computer became faulty. It is less convenient to return the equipment and there might be weak support. But before Amigas were built in Irvine. Scotland, Commodore said they

did not make extra profits on comput-The manufacturer said they had to

pay for the computers to be imported and one benefit given to British Amiga buyers - and not available in other countries - is the year's on-site war-

No-one from the firm was available for comment on these new findings.

Psychologist raps epilepsy scare stories

A BRITISH psychologist has hit out at tabloid newspapers which recently carried "scare-mongering" headlines claiming computer and video game playing can trigger epileptic fits. "Nintendo Killed My Son", screamed the front page of The Sun,

about a boy with a previous history of fits who allegedly collapsed and died after playing a Super Mario The boy's mother was quoted as saying: "If it can happen to my child

it can happen to anyone." The Daily Mail said games "should be redesigned to eliminate the risks of causing fits in children" And even The Sunday Times

reported City fears that health scares might cause the computer games bubble to burst.

But one person who suffered from

the condition and who has researched its effects is psychologist Dr Cliff McKnight of the HUSAT Research Institute at Loughborough University.

"To suggest computer games cause epilepsy is nonsense - at best it indicates poor reporting and at worst it is simply scare-mongering,"

he said. Dr McKnight says the games themselves are harmless but flickering TV screens used with computers and consoles could affect some of Britain's 20,000 photosensitive epilepsy suffers.

It is only under this form of the condition that seizures are triggered by visual stimulation - such as TVs and it can only affect those with an existing tendency or problem. Fits can also be triggered by such painted on roads before some roundabouts, tree-lined French roads with the sun shining through trees and

disco lights. "Many hundreds of thousands of games computers were sold over Christmas - almost exclusively for use by children who tend to sit close to the TV when playing a game," Dr McKnight added.

"It's not surprising from a statistical point of view that some cases of epilepsy have become apparent, but this is certainly no excuse for the way certain tabloid newspapers have distorted the facts in order to create a more dramatic story."

And the British Epilepsy Association have also slammed the newspapers' reports. Chief Executive Terry O'Leary says that the "panic and fear is misplaced."

They have produced a leaflet on photo-sensitive epilepsy and an information sheet about televisions and computer displays which can be obtained from their helpline on 0345



Amiga Computing March 1993 13

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Both upgrades require: Amiga 500, 500+, 600, 600 HD, 1000, 2000, or 3000 Workbench 1.3 or 2.0, 1 MB RAM (additional memory recommended). Two disk drives or hard disk recommended.

Personal touch for artists

BUDDING artists will soon be offered a new paint package which is claimed to take full advantage of the Amiga's original and advanced graphics

British distributor MicroPace (0753 551888) also say Personal Paint offers sophisticated image processing functions, programmable effects, intelligent colour reduction and remapping.

Other features include up to nine brushes, a text editor, colour fonts, two different working environments and a customisable user interface with sound

A disk containing 256 colour images is to be supplied with the program, which has a price tag of £59.99.

Launches planned for Wembley

AS THE final preparations are put to the Show, details of new Amiga products due to be shown have emerged.

Heading the line up at the Amiga HiSoft promise to unveil at least two new software packages.

They include v6 of the SAS/C compiler development system for AmigaDOS, intended to provide users with a "responsive, controllable C compiler'

Devpac 3, the latest version of the firm's assembler programming software will also be shown.

Added features include a new multiwindow editor with bookmarks for remembering key positions. Education

Power cut causes A1200 problems

A CHANGE to the design of the external floppy disk port on A1200s means that people upgrading from older Amigas are finding some of their existing peripherals

The port - although similar to the eye - used to be supplied with both 5 and 12 volts of power. The new Amiga has only



A1200: Some old Amiga peripherals incompatible

specialist LCL will be at the exhibition to launch the first computerised national curriculum integrated science course

Micro Science takes eight-year-old beginners up to GCSE level, and can then be used as a revision aid for physics, chemistry and biology examina-

will not work.

no longer required.

Power Computing, meanwhile, promise to have plenty of new Amiga hardware on

display. Among the line-up will be Epson's new flatbed scanner, hand scanners and A1200 memory Other firms due to attend are New

Dimensions, Silica Systems, PD Soft and Coombe Valley Software The show will be held on February 19

Scala faces competition MEDIALINK 3 is the name of a new pack

age set to take on the might of Scala in the Amiga multimedia market. Programmed by 1001 Software Development, the firm says the menudriven software is ideal for designers of

time-based applications such as standalone presentation systems And they claim that interactive programs can be put together in a short period of time, with shorter scripts than similar ones made with the program's

It contains smooth anti-aliased fonts and features line-by-line and page transitions, real-time loading from hard disk of larger than memory animations and a time base counter.

Other features include 24-bit output, ARexx, multitasking, sound module playing, plug-in objects and Workbench 3

"Multimedia should be practical, it should work on inexpensive hardware and it must deliver solutions, not problems," said a 1001 Software Development

spokesperson To be distributed in Britain by Alternative Image (0533 440041), it will cost approximately £300.



KNOW SOMETHING WE DON'T?

Although Amiga Computing has scores of contacts in the Amiga world we need you. If you have some hot news ring John Butters on the news desk now on 0625 878888 or fax to 0625 879966. All information supplied will be treated in the strictest of confidence.

DO YOU

Alternative make some Real changes

ALTERNATIVE Image (0533 440041) are set to release an improved version of Real 3D, and slash the cost of the existing package - v1.4 - to around £60. Major additions found in v2 are a new customisable user inter-

Customisablé Environment and Expandability is the full name

given to the software's interface. It enables users to edit, save and use a newly-designed user interface or load a favourite The CEE's flexibility allows the user to expand the program by editing screens or windows, and by defining new functions that

And the new animation system contains features such as object morphing, particle and procedural animations, texture and Also available is skeletonal control and continuous time or

frame-based animation descriptions. Effects include motion blur, magnetism, sun glow effects and blurred reflections. The price remains to be fixed but a spokesman for Alternative Image gave it as approximately £300.



Real 3D: version 2 has top animation features

Compatible again..

A NEW program available from some Furnnean computer clubs aims to solve many of the incompatibility problems caused by recent Amiga OS upgrades.

Believed by experts to be illegal, the software enables A500P, A600 and A1200 users to boot their machines with the early Kickstart 1.3 and appears to even downgrade the graphics.

Once installed, Kickstart 1.3 will remain in the Amiga's memory until the marhine is turned off and enables previously incompatible software - including games - to be loaded. Although two East Europe-based firms are credited for the program's development we have been

One technical expert described it as a "remarkable little program" but added that it is similar to the shareware program ZKick which does not work with the latest

unable to contact either.

Editing range **improves**

EDITMAN Super is an proved range of products designed to enable video enthusiasts to use their Amigas to control a VCR or video camera for editing. With the ability to in graphics and captions w diting, the latest models now

handle animation and provide A/B roll editing facilities with programmable fades and so Versions higher in the range ave extra options such as 24it graphics and video FX Developed by Syntronix DTV (0332 298422), Editman's

rice starts at £399.

Drawing with Soft-Logik

SOFT-LOGIK, developer of desktop pub lishing package PageStream, have now released an Amiga structured drawing

program called Art Expression. Its editing tools give users the ability to add, delete, move, join, split and align points in objects and there are also tools to close paths, create text objects and

change file magnification. And among its special effects features, text can be aligned to curves or warped inside any shape, and objects and colours blended for realistic shading and shape

metamorphosis. Desktop publishers are offered the ability to convert and load files from many Professional Draw, Aegis Draw, Pro Vector

Expression's PostScript files The Missouri-based firm have chosen MicroPace (0753 551888) as their British distributor and have set a price tag of

used. And Wang - the firm appointed by Commodore to carry out Amiga repairs will be authorised to fix faulty drives fitted

to the computers before their sale. So far only Silica Systems (081-309 1111) have announced details of a model

ted with an 85Mb Maxtor drive will cost The drive will be supplied with Great Valley Products installation software and

Typography

from AGFA

AGFA have just brought out two typogra-

phy packages as part of a policy of mak-

ing their entire library of Intellifont

scalable typestyles available in Amiga

The Amiga Starter Pack II is a collection

of typefaces for desktop publishing and

It includes a range of typestyles includ-

ing CG Times and CG Triumvirate,

wordprocessing applications.

A570 price slashed

COMPACT disc drives are now financially in reach of many more Amiga users following a £100 price drop just announced for the A570 by dealer Silica Systems (081,309 1111)

Under the promotion - set to run until the end of the summer - buyers will be able to get hold of the Commodore drive and a free copy of Sim City on CD for just "The CD format is growing in popular-

ity and more and more games appearing on CD are far superior to traditional floppy disk-based games," said Silica's Andy Leaning. "It won't be long before Amigas with-

out CD drives will miss the best games. Our sale offer is intended to encourage as many users as possible to benefit from

Meanwhile, the dealer has also announced a price cut to £39.95 for Great Valley Products' 8-bit sound sampler DSS. The package contains hardware, an editor and a sequencer

Cartoon Classics bundle goes for £249

ANYONE on the look out for an Amiga 500 Plus can now buy the Cartoon Classics bundle and an extra pack containing four games for just £249.

The offer comes from dealer Silica Systems (081-309 1111), who promise the computers are official UK models and are supplied with full warranty and support. The A500P is supplied with Deluxe Paint III, Transwrite and games Lemmings.

Captain Planet, Zool, Pinball Dreams and Spokesman Andy Leaning: "With recent

exchange rate fluctuations, most news recently has been of manufacturers increasing their prices. "Silica are pleased to stop this trend for

a while and announce a special offer which sees the Amiga 500 at its lowest ever price."



New drives from distributor

LEADING distributors including ZCL and approved A1200 hard drive suppliers, Amiga Computing has learned. Under such an arrangement, customers would be able to buy the state-of-the-art

computers already fitted with drives, and without the machine's warranty being affected It is planned that drives with different

levels of storage capacity will be sold, and installation software and cables will be

Computersysteme have established a

new distribution arrangement with

British representative because of their

ability to offer quick delivery, technical and sales support and a complementary product line. At first three products will be offered gate 386SX, Golden gate 486SLC and Monitor Master, an automatic monitor switch box. "These boards bring an exceptional level of performance capability and opportunity to Amiga user," said MicroPace's Marios Margaritis. "The 486 has beaten our initial sales projections and we expect the excitement to continue."

MicroPace were chosen as Vortex's

MicroPace (0753 551888).

headlines. And 25 typefaces used in the advertising. commercial and broadcasting industries are

Amiga users can drop type into graphics and manipulate composite images without losing Prices were unavail-

able at the time of going to print. Agfa can he telephoned on 081-560 2131.



Vortex find British home









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SILICA SYSTEMS

Company Name (if applicable) Tel (Home): Which computer(s), if any, do you own?

MrMrs/Mss/Ms; Initials; ...

Publisher adds to Amiga titles

BRUCE Smith Books (0923 894355) have this month added two more publications to their growing range of Amiga titles. As its name suggests, The Insider Guide to the Amiga 600 is a tutorial about the computer, touching on Workbench, utili-

computer, touching on Workberkh, utilities, preferences and AmigaDOS.

The 256-page book contains 55 graphical step-by-step guides, each concentrating on an important or common task which the Amiga user has to carry out.

Cost: £14.95.

The company's second release is Mostering Amigo Affexx, a 320-page guide to the Rexx programming language adopted as part of Workbenches 2 and 3. Its topics include how to install Afexx.

Its topics include how to install ARexx on any Amiga, introductions to the language, its main features and explanations on how ARexx is used to control other programs.

There are also details of ARexx's built-in

tunctions and support inclines
for creating programs and an introduction
to advanced ARExx programming topics.
Supplied with a support disk, it is
priced £21.95

New show planned for Midlands

MIDLANDERS are targeted for a computer show due to be held at Telford Exhibition Centre on March 6 and 7.

Organisers Nelton Exhibitions promise the area's largest ever line-up of computers, games, hardware and accessories to be put under one roof.

Said Nelton's Tony Cox: "It is high time that this part of the country began to get its own consumer shows.

"We knew we had this computer shopping spectacular aimed at the right market, but even so we have been surprised by the response from both exhibitors and

potential visitors"

DIARY DATES

19 to 21 February 1993
7th International Computer Show
Organiser: Westminster Exhibitions
(081-549-3444)
Venue: Wembley, London
An Amiga Computing-sponsored all
formats rend

25 to 28 March 1993 Ideal Electronic Games Show Organiser: Ideal Home Exhibition (061-432-2642) Venue: Earls Court, London A new section added to the Ideal Home

4 to 6 April 1993 European Computer Trade Show Organiser: Blenheim (081-742 2828) Venual: Business Design Centre, Landon New software and hardware is previewed

Speed increase for A2000

AMIGA 2000 users can now increase the speed of their computer with a new 68030 processor board just developed by Interactive Video Systems. The firm claims Vector to be one of the

most versatile accelerators available because of its "high performance fea-

Options include 25, 33 or 40MHz versions, a socketed maths co-processor, on board memory expansion up to 32Mb and four or 8Mb of memory available to

the 68000.
It also has a built-in SCSI controller and external SCSI pass-thru. A SCSI share networking feature allows storage systems fitted to the machine to be shared among several computers.

Once fitted software enables the Amiga

Graphics course

planned

A TWO-day course for those interested in becoming more familiar with Amiga graphics and animation is to be held at Hammersmith, London

Run by a company called Connections, there will be tuition in creating captions, logos and rolling and crawling credits on the A500 and A2000. Attendes will also be shown the possibilities of creating images and how to animate them. All creations will be transferred to videotape so that work can be taken home.

The fee is £90 for waged enthusiasts and £60 for the unwaged. Moreomation from Connections on 081-741 1766.

23 to 25 April 1993

(081-549 34444) Organiser: Westminster Catch up with the latest Midi products.

16 to 20 September 1993 Live '93

Organiser: News International (071-782 6000) Venue: Olympia, London A public consumer electronics show. Commodore plan to attend.

24 to 31 March 1993

Organiser: Deutsche Messe (010 49 511890) Venue: Hanover, Germany A massive electronics show which has been used for the launch of many new products including the A600.

to switch back to the 68000 processor. Prices are available from UK distributor MicroPace on 0753 551888.

Easier refills for inkjets

USERS of inkjet printers can now buy refills from Memorex, who have just added a nine refill product range to their existing line of computer accessories.

Compatible with Canon, Epson and Hewlett Packard machines, the refills are claimed to offer an ease of use that printer users have long been seeking.

users have long been seeking.

Manufactured by Pelican, the cartridges are designed with a hole in the top and a syringe is provided.

Users find ARexx help

AIMED at bringing less experienced Amiga users quickly up to speed in ARexx and to provide some ARexx programs which can be adapted for use in applications is the ARexx Cookbook. Written by Merrill Callaway, the tutorial

is a step by step guide to the subject and the example programs are described as doing useful tasks, such as scaling .IFF images to screen size.

The standard package containing the ARexx Cookbook and a single disk costs £29.95, and a Deluxe Set supplied with an additional companion disk is priced at

Order from Premienvision at 31C Herne Hill Road, London SE24 0AX or telephone 071-274 4407. **News Briefs**

● GUIDE to AmigaDOS is a package containing videos, books and software which has been designed to help enthusiasts become familiar with the subject. Available for all versions of Workbench, it can be bought from New Image Videos at Department MSZ. The Studio, 10 Grange Avenue, Scarborough

SOME mistakes unfortunately made their way into January's round-up of Amiga mice. The correct telephone number for Logitech is 0344 891313 and the firm's Pilot Mouse costs £28.20.
 CONTRARY to a story in the January

issue of Amiga Format magazine, Futuretech Consumer Electronics of Newport Pagnell have not gone into liquidation and are trading as normal.

Amiga software and hardware can now obtain a free guide to many of the products available.

Published by Silica Systems (081-309

1111), the 64-page booklet gives details on every products distributed by the firm and pictures of each.

 FOUR new volumes have been added to Words and Music's collection of Amiga Classical Midl file format disks.
 They can be loaded into any sequencer which supports standard Midl files, and are mapped to the GM/GS

standard for instant playback.
Costing £10.95 each, all four can be ordered for £37.95. For more information on their contents telephone the company on \$91.529.4788.

■ E M Computergraphic (0255 431389) have become approved suppliers of the two-disk OpalVision update to British and other European users. Costing 6, 99, it contains OpalPaint

1.4, OpalPresents, OpalHotkey, OpalAnim Utilities, OpalLibrary, new paper types, artist tools, draw modes and OpalVision's AdPro display module.

Charity help sought

CHARITY Soft is a non-profit making computing organisation just set up to help a selection of registered children's charities.

selection of registered children's charities.

They are now on the looking out for programmers of any age or experience who would like to work on a freelance basis, and would velcome new program-

Various computer formats including the Anriga will be supported by the project, which aims to produce games in the first instance but might later extend into business-type software. Contact Michael Moseley on 0840 770935.

Everybody's talking multimedia revolution. Allow us to light the fuse.

A lot of apples were bruised when we first introduced Scala, the professional presentation package. With the new Scala MultiMedia MM200, they will be blown into oblivion!

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Enhance your presentations special sound effects! Scala offers total control of recording and play-back.



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C Scala Snapload

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niques make Scala load and

display pictures and anima-

tions faster than any other

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been battered and misused... Scala on the other hand, know exactly what multimedia is and what to do with Amios User International (UK)

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ADPro Enhanced!

ASDG is shipping a significant upgrade to their Art Department Professional package. Although the program has supported AGA since long before Amigas with the new chip-set were available. ADPro 2.2 adds support for the AmigaDOS 3.0 monitor types list, so you can now render pictures in modes like Super72 Super hi-res-Interlaced

A new Temp saver lets you save your image to a temporary buffer before trying a destructive operation. You can also use this to quickly access the same image over and over again to perform different operations on it.

ADPro 2.2 adds an Anim loader and saver, making animation creation and processing a snap. The program is also the first to support the new Anim Opcode 8 (Anim-8 - geddit?) format created by

Opcode-8 anims take advantage of the 32-bit chip RAM in the Amiga 1200, 3000 and 4000, giving you much faster animation capabilities on those machines.

When run on an AGA Amiga, the visual operator screens now appear in 256shade greyscale instead of just 16. Some new operators and dithering algorithms are available, as well as support for a number of new third-party graphics

ARexx support in the Fred utility has been markedly improved, and you can



Denny Atkin reports on the latest developments from the USA

now use list view requesters in your remember that dither number 1 is Floyd-

About 50 sample ARexx macros are included for processing your images, so you may never need to write your own. Perhaps neatest of all is the new ADPro File Sentry utility, which will watch directories (even on a network!) for new files and let.

you perform operations on those files. Imagine a network of 12 Amigas all rendering in Real-3D and a thirteenth machine gathering the resulting images, processing them, and creating an

These features are just a sample of the improvements in the new version. ASDG has provided three free upgrades to ADPro 2 over the past year, so the upgrade fee for this version seems quite reasonable -

\$45 outside the US. Like earlier versions ADPro 2.2 retails for \$299. Contact ASDG, 925 Stewart St., Madison, WI 53713 USA: (608) 273,6585

Denny who?

A little plug for the piece of work that has kept me very busy for the past year or so and has resulted in Amiga Computing screaming "we need your column last week!" more than once.

Denny Atkin's Best Amiga Tips and Secrets from Compute Books, is a collection of the Amiga tips and tricks I've collected since 1985 while working at an Amiga dealer, serving as president of one of the first Amiga users groups, and editing one of the US's three remaining Amiga magazines. This 275-page tome contains chapters with tips for AmigaDOS 1.3, 2.04, 2.1, and 3.0, as well as the various versions of

Other topics include expanding your Amiga, using hard drives, speeding up your machine, emulating other computers. and getting the most out of your printer.

All Amiga models are covered, including CDTV, the A1200, and the A4000. I've been helping people take advantage of their Amigas for over seven years now, and this book contains a combination of answers to the most-often-asked questions and the most useful tips I've encountered. It's geared towards Amiga users, not programmers, and is designed to keep you from pulling your hair out when you

encounter a frustrating problem or expan-The book sells for £18.45 and is available in the UK from Computer Manuals, 50 James Rd., Birmingham B11 28A. Phone 021-706 6000, or fax 021-706

Next month I'll have a report from the Amiga Developers' Conference in the land of Disney - Orlando, Florida, This is the first world developers conference, and with attendees from Europe, North America, and elsewhere, it promises to bring lots of interesting information to

Much of it will be top secret, of course, but I'll do my best to get the

Disk paramedic

pany to successfully tackle Quarterback, with the their excellent Ami Back hard disk backup program. Now the company has it's sights lined up on Quarterback Tools, and the player they've signed up is

the not-too subth-named Ami-Back Too

to the temptation to leap from the nearest tenth-story

If you've ever hard a floppy disk go belly-up, you know

AMI-RACK TOOLS Dist Utilities for the Aniqu Conversal & 1993 elighter Software Couclement. All Rights Reserved

SISI Brits In-Resistered Version (188888

check-ups and immunisations as well.

Ami-Back Tools is a single program, but it's organised into a group of modules. GP (General Practitioner) is a

nisation progra Much faster at its task than Quarterback Tools 1.5. GP combination of the three, depending on how much time

can make your disks read-only. Reviver recovers files accidentally deleted or lost through a quick format, while 911-Recovery will back up selected files even from a disk that so hosed that Lab Test lets you create a database of file checkums

which can be used later to check for corrupted or virus



Although Ami-Back Tools works fine under

AmigaDOS 2 and 3, such as hardlinks and the Directory

the program received to pay to know that you won't lose your valuable data Registered Ami-Back owners can purchase it for \$39.95. For more information, write Moonlighter Software Development, 3208-C E. Colonial Dr., Suite 204, fax (407) 384-939





The Amiga is the most configurable, dynamic personal computer on the market today. The perfect accessory for your Amiga is Directory Opus 4.0- the most powerful, user-friendly, user-configurable directory utility available.

Directory Opus gives you the flexibility and freedom to effortlessly manage all your files from an interface YOU configure to suit your specific needs and taste: NOT limiting yourself to what some programmer thinks you need or want!



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/ Displays Fonts
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/ Displays HEX Files
/ Unlimited User Configurable Buttons
/ Unlimited Configurable Device Buttons

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With a completely configurable user interface, numerous built-in functions such as user definable sorts and searches, comprehensive "online" help, and full ARexx support, Directory Opus 4.0 takes the concept of directory utilities to a new level of professionalism, power and productivity.

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ciPlan4 has to be one of the best all-round spreadsheets available for the Amiga, as it offers many special features but still manages to be user friendly enough for the novice computer user.

A spreadsheet is a program designed to help you make financial calculations and charts with ease. Not only will it work out complicated financial calculations but also manage and manipulate all sorts of data.

To use Maxiplan4, simply reset your Amiga and insert the CoverDisk containing Maxiplan4, then double click on the disk's icon followed by the Maxiplan drawer, finally double clicking on the Maxiplan icon, which will start Maxiplan off and running.

Worksheet

Once you have Maxiplan working you will be presented with a box asking you if you wish to load an existing worksheet. lust click in the left-hand corner of this box to cancel it.

You will now have a blank screen. Press and hold down the right mouse button to reveal the pull-down menus, go to the new worksheet and let go of the mouse button.

You are now ready to start a new worksheet. On the screen you will have various menus at the top and a large area below them which is made up of horizontal rows, marked by letters, and vertical rows, marked by numbers.

This area is where you set out the information you wish to calculate and manipu-





xiPlan4

Powerful enough for the most demanding user, yet friendly enough for the beginner, the Disc Company's Maxiplan4 is the ideal spreadsheet

and then type "Bread" followed by

click next to the contents bar above. You can now type in text or numbers, but we

late. Moving around the worksheet area can be done with the mouse or by using the arrow keys. To put information on the worksheet you must move the cursor over the box you wish to put information in then click in the empty space next to the word "contents" just above you alphabeti-

So, with Maxiplan up and running with a fresh blank worksheet, it's time to input some data. This may sound complicated but as I have already explained it's quite simple. To start with we'll just do a simple spreadsheet showing the total cost of shopping trip.

To start click on the box "A1". Now

bread to column A3 and the highlight bar has moved down one space automatically. Add the following articles one after the will type "Articles Bought" (followed by Return). You will notice how the text you other, remembering to press Return after each item. Tea, Milk, Sugar, Coffee and have type has appeared in box A1, although the text is too long for the box's If you have completed this task corwidth. To fix this, pull down the overhead rectly you will have a column called menu, go to the format column and select

"Articles Bought" with a descending list of "Width" and "Specify". You will now be food items. Now you have to make a colasked how wide you want the column, so type 15 and then hit Return. umn to hold the items' costs To do this, move the highlight bar to Now that you have called column A "Articles Bought", move the highlight bar down to A3, click in the "contents" row,

the C1 column, click in the contents bar, type "Cost" and then hit the Return key until the highlight bar is at the same level





Stereo Master

Microdeal

Stereo Master is not only stereo sampling software but is also capable of real-time audio effects, and has a fully featured sequencing package built in.

Once you have this software you'll really be able to make your Amiga make sweet music. If you already own a sound sampling cartridge it will quite happily work with

Stereo Master but obviously if it only a mono model then you will only get mono Don't worry if you haven't got a cartridge as we have a special offer overleaf which

enables you to purchase Stereo Master's cartridge at a very special rate When loaded, Stereo Master presents you with a well laid-out screen which is easy to understand. This makes using the program very easy

Included on the CoverDisk there are a few sound samples for you to try out and experiment with. Stereo Master has several screens, all of which deal with a different

Once you have the main screen on your monitor you will notice that it is split into

two large rectangles in the top half of the screen is where the sounds which you sample or load into memory are displayed, the top one being the left channel and the bottom being the right. The bottom half of the screen is taken up with the loscopes. The oscilloscopes

display how high your ume is too high then the sample you record will sound distorted, and if the volume is

too low you will hear background noise It's best to set the volume so the peaks of the sounds just keep inside the display - if they go outside too often then the sound is set too high To see the oscilloscopes in action, press the button just above the FX - this enables

you to hear the incoming sound without having to sample it first In the bottom half of the screen there is a box in the centre. This displays the frequency you are going to record at. It automatically loads up set to 14.4KHz, but the higher this number the better your samples will sound - at the expense of memory, so

it's best to experiment with this feature to see which setting is best for your setup. Once you have the frequency set you simply press the Rec button to record sounds

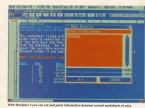
display them in graphical form. To hear what you have sampled, just press the Play If you have recorded a large sample and you only wish to hear a certain section

of the sample to the point where you wish to start hearing the sample fro There is also a blue bar at the end of the sample which can be moved to select then

Most of the other buttons are fairly self explanatory; they perform various editing features to samples already loaded. As already mentioned, Stereo Master is capable of performing real time

to use and then click on some sound - to stop the mouse button.

omple sounds but



as your first food item. Now type in "0.45" followed by Return. The 0.45 should be on the same level as the bread. Now add the following prices: "1.50" for tea, "0.45" for milk, "0.80" for sugar. "1.50" for Coffee and finally "1.20" for

Now you not only have a column for your food items but a column to show each item's price. The next thing to do is make Maxiplan display the total cost of all

To do this we must create a row called amount which is in column "C". To do this, move the highlight bar to column "A" about two or three lines below the last food item and insert "Total Cost" as

Now that you have called this row Total Cost you must tell MaxiPlan what to calculate in this column. To do this, move the highlight bar to column "C" and level with the text Total Cost then click in the

Calculations

Press the = key on your keyboard and then using the mouse, click on each price in turn in column "C". Once you have clicked on all the prices you should see "=c3+c4+c5+c6+c7+c8" appear in the Contents column. If so, press Return and the total of all the items appear in the total cost column will appear

You have now created your first spreadsheet. Obviously you can create much more complex spreadsheets but it's best to start at the bottom and work your way

Once you have set up a spreadsheet you can then display the information it holds in graph format. To do this, use the mouse to highlight all the individual prices menu which contains the charts and select, say, the Bar chart,

A window should open up and draw a bar chart containing all the information which is in your spreadsheet. If all the info is not displayed, simply drag the corner of the chart box until it is large enough to hold all the info. As already mentioned MaxiPlan has lots of advanced features like the ability to create charts and save them as IFF files for use in nearly all paint and wordprocessor packages. It is also capable of importing and

exporting Lotus 1-2-3 files to and from the PC. You can even set up a data base file using MaxiPlan4. To help you take advantage of this bril-

liant package's special features we have put together a manual offer. To find out more, see the offer page overleaf.

Funschool Letters

Europress Software

Everyone with children will appreciate how difficult it is to get small children interested in learning the alphabet. Well, it's AC to the rescue! Over the next three months we will be giving away a

Funschool module on every CoverDisk The Fun School range of software is aimed at teaching small children various topics such as maths and reading. Funschool's aim is to entertain children enough to keep them interested in the topic which they are learning.

Each Funschool package contains six modules, all teaching a different topic. The Letters module which is on this month's CoverDisk is aimed at teaching three to five-year-olds to recognise the letters in the alphabet

To use it, load the CoverDisk and then either select Funschool from the short-cut menu or double click on its icon. When it has loaded you will see a box in the top left-hand side of the screen displaying a letter in a box and a row of letters below. The idea is to highlight the corresponding letter in the row on the bottom of the

Once the computer has selected the letter for the child to find you simple use the right mouse button to move the highlight cursor along to the letter which matches the one in the top left-hand corner and press the left mouse button to make the selection. If the child's answer is correct then the bear on the right of the

screen will strike the bell moving the marker up one notch on the bar.

she will move on to the next part of the alphabet. This module teaches recognition of not only upper but also lower case letters.

As mentioned earlier, Funschool have an entire range of educational software available for children between the ages of three and 15. Because of Funschool's fun approach to learning, it encourages children not only to learn more but also to concentrate harder.

Indexer

Author: Michael and Lesley Cort

Indicate is essentially an extremely fast database program which has been produced by Pyramid Productions. The version on the CoverDisk has been specially programmed for AC, containing listings of articles and reviews which have appeared in AC over thelast year – although it's not as fast as the fully-blown version which you can get direct from Pyramid.

If you wish to find out if AC has reviewed a particular program or product then you can look it up and find out not only which issue it was in but also what page it was on as well. To load Indexer either double click on the



Indexer icon or select it from the Short-cut

menu. When you have loaded Indexer up,

pull down the overhead menu and

highlight Load and then select "load

Once it has finished loading this index

one of the nine categories which are

listed on the right-hand lower side of the

the top of the screen asking you to select

a category from the above menus for

These instructions only explain how to

Indexer. However if you wish to find out

more about the programs featured then

read the docs which are included on the

You will now see a message in a box at

Amiga Computing index"

screen.

FastIntro Maker

Author: Michael Bialas
FastIntroMaker is a small utility designed
to help you create boot intros for your
demo disks. What it actually does is display a picture and scrolling text on-screen
while playing some music. This is a demo,
so not all the features work, but it will be

enough to get you started.

All you need to make an intro sequence is an IFF picture and some text in a standard text file. The text file can be created using any wordprocessor or even shell's

own editor, Ed.

Once you have these two, load
FastIntroMaker and click on the Load Text
button to load your text. Next load your
picture. Once you have both of these

loaded you can select what speed the text scrolls at. To test how your intro will look, just press the test button. If your are then happy with it, select Save. To use the demo, simply put it in the root directory

disk's startup-sequence. ie:

run >nil: <nil: sys:filename

filename being the name you gave you gave to your intro.



MASTER

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Check 37

Author: Chris Brown
Over the last few months we have been
using a small but very useful program
called Check 37. This program checks
which Kickstart your Amiga has fitted and
then runs the appropriate startupsequence for your machine.

This program was written and supplied by Chris Brown of Croydon and we would like to thank him for his submission.



Wordsearch

uthor: Jack Pritchard

This is one of those programs which will be really enjoyed by people who love indulging in puzzle books. Wordsearch is a good old word search game which is designed to drive you completely crazy.

When loaded, Wordsearch selects at random the words it wants you to find in its maze of jumbled up letters. You then have to find as many of them as you can. When you find a word you will gain points, the idea being to either find all the words or acquire as many points as you can.

If you select a word and it is incorrect, this will result in a minus score, so be care.
When you think you have found one of the words in the list on the right of the screciclis on the word and then on the first letter in the maze which you think starts word.

One of the good features of this game is the fact that the vocabulary it uses is stored in a standard text file on the CoverDisk, so if you load the Words file into any text editor like shells Ed then you can add extra words with ease.



Nice and easy layout makes it possible for novices to make disk intros

More muscle for Maxiplan

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- Export charts in IFF format to for use in other Amiga programs
- Open up to three worksheets at once
- Record of macros automatically
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Title fight!

Does the A1200 really knock the wind from the PC's sails, or is it just a weak pretender? Stevie Kennedy goes ringside...

gs, the Amiga has been on the

Hardware

precious little real debate has gone on Amiga by cheaper and cheaper PC clones which is why we decided to take the unusual and, I must say, normally pointless step of comparing two completely dif-

Pointless because two machines based on different processors and radically dissimilar design concepts are about as comparable as chalk and cheese.

cheese eaters start to lick their lips at the sight of a blackboard, it's time to find out whether they've gone barking mad or it

chalk really does taste better. The Amiga is a computer originally designed in the early to mid-80s by a forward-thinking team of Californian hippies who had a wish list and a healthy vision-

The result is that, at its launch, the Amiga was thoroughly modern in design ened the Amiga's technological advantage for a while, but the AGA chip set and Kickstart 3.0 have recently brought the Amiga up to date again.

Business

By contrast, the IBM PC was designed in the mid-70s by a team of hard-nosed engineers looking to produce a desktop microcomputer for purely business

The result is that the original PCs had text-based mono graphics, no sound, and no frills. They were, however, very early converts to the hard drive and the better screen displays which have since become

Driven by business demands, the PC started to become popular and Windows 3.0 for the true 32-bit machines first appeared, the normally boring PC world went mad for colourful screen displays. sound cards, huge hard drives, and high density floppies. Software improved, competition spiralled, and the PC bandwagon started to assume unstoppable proportions, Soon, colourful VGA-based games started to appear, and when the VGA card became a de facto standard, 256-colour games (eight times as colourful as most Amiga games) weren't long in

Games were just the start, however, and the more colourful, tuneful PC began to encroach upon the traditional Amiga strongholds - video and multimedia.

At this point, the price wars of 1991/2 began to force PC prices down to levels at which the better-heeled Amiga owner might reasonably expect to buy one for leisure or enthusiast uses and, since the middle of 1991, the letter pages of Amiga Computing have been the stage for a ding-dong battle

between those who believe the Amiga is the superior machine and those who see the PC as a better value for money

Debates carried out through Ezra's postbag, such as the over the years, are normally fairly sober affairs, but the furore lated into an internecine civil war with all the vicious-

ness of a cat fight. Sneering letters pouring contempt on IBM clones are matched in their vitriol only by those from readers apparently

happy to see the management of Commodore UK dragged out and shot. The most frequently voiced complaints

- that the Amiga's graphics are obsolete and that it isn't fast enough - have been addressed by the A1200, but the way in which the Amiga is marketed still attracts a great deal of criticism. Serious Amiga



users want hard drives as standard and much more support for high density flop-

pies, high resolution multisyncs, and so All of this is needed if the Amiga is to keep up with the competition in the nongames sector, and Commodore's seeming lethargy in this area (the A4000 isn't sold with a monitor as standard, the A1200 has no HD floppy) has prompted some to believe the company is happy simply to

soak up sales from games players. However, this view is a little one-sided. Commodore, at least in their public pronouncements, have recognised the importance of the thousands of Amiga enthusiast users who regularly use the machine productively, and it is for them that the A1200 was released.

From the comparison found in this article, it should be abundantly clear to most sensible Amiga owners that the A1200 represents the most convincing rebuttal to the PC clone, which one could have asked

It is more colourful, more modern, and in many ways faster than machines which cost the same in real terms and which. from simple spec sheet considerations, If Commodore can only produce

enough A1200s (with built-in hard drives please!) and the software houses can be convinced that it should be properly supported, the Amiga will come through the 1993 PC war with flag flying and all guns blazing.

The PC platform

The IBM PC's main limitation is its archaic design. Limited to 640k base memory and a clumsy paged extended memory system, the PC is forced to struggle against its own central design features to keep up with demanding modern software

Of course, PCs can use much more memory than 640k, but the biggest single executable program can never exceed the available base memory, and all extra RAM (whether expanded or extended) is addressed by the system as 16k pages, making memory management a slow and painful business. Commercial packages

Software shopping The cost of additional software is something which many users do not consider thor-

oughly before buying a machine, and it is in this category which the Amiga scores most highly over the PC. Software on the PC is undoubtedly much more expensive than on-

For business use, the home user might opt for an integrated package, an area in which the PC is well served by such packages as Microsoft Works.

Full-priced business software is another story. A complete wordprocessor for the PC Admittedly, Microsoft Word for Windows 2 has more features than Wordworth 2. more clip art, and more fonts, but the difference is hardly worth £250, and there is little, in terms of serious wordprocessing power, that the PC package can offer which

Databases will always be a major forte of the PC, with only Superbase Pro 4 offering anything like the power of dBase, but the Amiga holds its own in terms of most other

For graphics, especially the ray-traced variety, the Amiga is unmatched in terms of quality and price, and some of the video software around (more particularly in the USA) has an enormous lead over other that available for other machines



costing as much as £60 will improve the situation, but these don't even perform the equivalent functions of the Amiga Gary or Gayle custom chips.

Secondly, the standard which established itself in the early 80s for compatibility purposes, the XT, was based on a slow Intel 8086 processor and was bereft of

sound or colour graphics. Since then a multitude of graphical and musical standards have evolved as manufacturers competed for the biggest slice of the market. The result is a confused mass of different processors, sound, and graph-

ics cards SVGA (Super Video Graphics Array), offering 256 colours at a typical resolution of 800 by 600 when running Windows. has become a standard of sorts as the 1Mb Trident card sold in its millions, but every video card has its own drivers for

Windows and not all are totally reliable. Many of the cards on the market are very slow indeed, and make Windows use an exercise in patience.

In addition, neither mouse nor joystick were implemented on the XT, so there is no standard for either. Users must hope

that the mouse supplied with their PC (assuming there is one) has driver software which doesn't interfere with too much other software and that the game card slotted into the machine (ditto) has a

game or joystick port. In use, the PC is a good machine for straightforward business productivity. The

Roland-compatible sound card makes for a

graphics and sound system comparable to the Amiga (better graphics, inferior sound). and games manufacturers weren't slow to exploit the potentially vast PC games

has less attraction. In some of the Amiga's

strongest areas, it is weak (though improv-

ing), and in others no better than average. For example, a ray tracing package -

3D Design Studio - recently released in its

new version for the PC and offering no

more capabilities than the £300 Imagine 2

and should blow away any program cur-

rently in existence on any other desktop

increasing threat from the PC is in a sector

where two years ago no-one would have

The VGA card coupled to an AdLib or

expected it - games.

Where the Amiga has come under

Real 3D v2 will retail for less than £400

- would cost the PC user almost £2.000.

fore more colourful than their Amiga counterparts, faster (when run on a 386 or better), and bigger due to the predominance of hard drives.

Think twice

Amiga owners not previously tempted by the PC have thus taken a look at the games available on the other side of the fence and started to think twice

However, PC games are unlikely to progress in technical terms from this point. Games houses have taken the 1-4Mb SVGA machine with 40Mb hard drive as their base level games platform and will not assume a higher level of equipment for at least

another year or two. The Amiga, however, has just leapt forward with the AGA chip set and should start to see superior games over the next year.

As a 2Mb machine with 256 colours in higher resolution than the PC, and fast graphics chips for large sprites and smooth animation, the A1200 should gradually begin to overtake the PC in terms of games quality, though there won't be many games of this kind in the near future

The Amiga platform

The Commodore Amiga is a multi-processor machine based around the principle that many hands make light work. In its most modern configuration, the machine contains a 68020 (or -040) 32-bit chip aided by an array of custom chips, 2Mb RAM, and a single floopy drive. Custom co-processors include Alice and

Hardware

William Wordsworth was born on the 7th April 1770 at Cockermouth in Curr England. He grew up in the beautiful lake district that was later to pe swith of his poster and philosophy. His early bothood was marred h the tragedy that was to accompany him throughout life. When he

was just eight years old his mother died, followed by his father five From a young age, he was very some that the way in occurrences was to demean the form.

rdworth 2 is the Amiga's best wordprocessor and comes close to the better PC packages

Lisa, between them providing the superb AGA graphics capabilities, the ageing Paula sound chip, and a variety of other chips taking care of everything from the serial port to RAM.

What this means is that, in effect, an Amiga CPU is more at liberty than any almost other machine's CPU to concentrate on true

lobs which can be carried out by the custom chips are whizzed off to be completed while the is beyond CPU gets on with something else, and as the PC...

has at its heart a modular approach to system resources, the Amiga is the only home or desktop micro to properly multi-

For games players, this means little, but for those involved in productivity tasks, in particular video and multimedia, the ability to do two or more things at once is

Such ease of use, switching from one

program to another while both are actively running, is unique to the Amiga, they move to another format.

Windows 3.0 offers the PC owner a crude task-swapping facility, but this is less than perfect as it freezes any task not being used rather than keepin it running

as the Amiga does. Even simple which are second nature to the Amiga multitasking such as formatting a floppy while printing a letter, are beyond the

A second benefit of the Amiga's custom chips is speed. Believe it or not, an A1200 running a 256-colour Workbench screen is actually smoother than a 25MHz 486SX running the equivalent Windows screen, despite the fact that the A1200 uses a 68020 at half the clock

The PC would benefit from a Windows graphics accelerator, of course, but these cost hundreds of pounds and are not standard equipment. Alice and Lisa do the same job and are found in

every AGA Amiga.

The Amiga's Achilles' heel is its perception as a games machine. Though offset somewhat by the Amiga's video and multimedia talents, the games label has

dogged serious Amiga development for years, resulting in a far smaller number of truly professional uses evolving for the Additionally, hard drives and VGA

Tech specs

against - stereo sound, gamecard, and so on. Ou A1200 was augmented by the addition of an interna 40Mb IDE and a multisync monitor.

Commodore A1200

CPU: Motorola 68EC020 running at 14.3 MHz Ports: One parallel, one serial, mouse, joystick, audio. Expansion: 150-pin trapdoor slot for memory and CPU upgrades. PCMCIA slot for RAM upgrade, Internal IDE Storage: One 3.5in FD 880k, one 40Mb HD (not

standard)

Cost: A1200 - £399, 65Mb hard drive - £229, CBM 1960 multisync monitor - £399. Total: £1027 Supplier: Calculus

Commodore SL386SX-25 Leisure Pack

colours from 16.7 million in any resolution

Ports: One parallel, two serial, mouse, joystick, VGA.

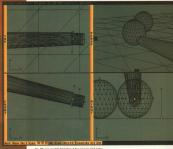
audio, speakers, microphor Video: VGA 256k expandable to 512k, Max resolution

with this video RAM is about 640 x 480 in 256 Sound: Sound Galaxy BXII - Adlib and Soundblaster com patible with separate mini-speakers

Storage: One 3.5in FD 1.44Mb, one 40Mb HD (factory installed and formatted) Commander II. Legend, D/Generation

warranty

Hardware



No PC can match Imagine 2 for power and price

AdPro Is enot beotoble Amiga package

monitors, though becoming much more common, are still not standard Amiga equipment. This means that hard drive installable games and more serious business software are slow to appear as the

market is so much smaller. On a brighter note, the Amiga is better served than any video, and multimedia sectors, and has carved a solid niche for itself in all three

Please note that the difference in total system cost

The PC package has a games bundle included in the

new and sought-lifter machine is unlikely to be bundled It would be possible to buy a cheaper multisync monitor and a 40Mb hard drive, but the former might cause problems with some of the Amiga's many display modes

To be fair to the PC, a cheap 386DX-33 from a box-

Amiga and PC side, but the prices provided above are

Everything from TV graphics and movie special effects to video titling and glitzy presentations give the Amiga an enviable pro-

some ways, most notably with its lead in CD technology and the release of Windows multimedia extensions, but the Amiga's innate video talents and its suitability to the task mean it is unlikely ever to be pushed out of this particular market.

as many users would have liked, but the sheer quality

ith = Advanced features are are a number of advanced features with this element, it comes with some clip

porter. It's at this cape that you wan you'd spirit that word livin quo inswid or opting for the clattering old 9-pin in the comer. Jugaer are popular with lids and the developers have included one here that can be played in pieces from 12 to 112 pieces and you can use pictures that you've

...and Word 2 is a PC ace in the hole

of the machine and its revolutionary nature have proved difficult to suppress. Unlike the Atari ST, which, despite being cheaper than the Amiga, never managed to secure a solid base for itself, the Commodore machine looks capable of

holding its own for the foreseeable future. The 680x0 family of processors is more powerful than the Intel 80x86 range and an immensely powerful new chip - the 68060 - is due for release later this year. have the AGA chin set available now and

opment. What this all adds up to is an





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Hardware

es, throw a monitor on the back of your Amiga and your image will improve dramatically. It's true - buy a monitor and the girls will fall over themselves for you. Lose the expensive aftershave, the flash clothing - a monitor is what counts when you want street cred! What? Oops, wrong type of image, sorry!

buying a monitor is fraught with problems. Monitors have a dictionary of jargon all to themselves - VGA, Analog TTL, composite, dot pitch, vertical and horizontal holds and

These all determine the type of monitor

and the quality of the display - numero uno in choosing a monitor.

The Amiga monitor market is far smaller fewer monitors, but even so, there is still a

bly have several requirements. Working in collaboration with a wide variety of people I set up a series of comparisons and tests designed to identify the monitors which were best for use on the Amiga and of most use to you, the serious Amiga user,

users, technical support staff for monitor

People consulted ranged from end

suppliers and Amiga dealers, TV/monitor repair engineers, colour specialists and

These tests were applied to the most popular monitors in the Amiga market, the and bought to you by Amiga Computing, is the most in-depth technical testing yet seen of the Amiga markets' favourite moni-

tors Each monitor was tested and checked for comparison on the following criteria (in no particular order) - resolution, clarity, compatibility, sound, convergence, colour

Also monitored (sorryf) was screen curvature and radiation emission. These points were then compared to the price for an

overall judgement. Each of the above criteria has its own peculiarities. Price is pretty obvious, unless you happen to be called Donald Trump. Unlike just plugging your TV into the

Amiga, the resolution you wish to work in directly affects which monitor you can use. Older Amigas had several low resolutions and a higher resolution, the higher being for the serious applications, the lower for games and so on.

The higher resolution, however, was crippled with a terrible flicker which rendered it almost unusable. To overcome this prob-

Newer Amigas with their ECS or VGA resolutions in the case of the A1200 and A4000 don't have this irritating flicker, but like the flicker fixers, require special multisync monitors to work.

Normal single scan monitors can't handie these new modes, and most of the mullower resolutions - as with most things in life, you can't have it both ways! Both types

Clarity means how clear the picture displayed is. To explain, imagine looking at a picture. Now imagine holding a plate of glass in front of it. The better the clarity, the clearer this glass - the worse, the more frosty. In general, the poorer the quality of the monitor, the more frosty you can imagine this glass becoming

Compatibility is only an issue if you use the 10845 never di

Sight for You need a monitor to clear sore up all those blurry TV screens and save your eyesight eyes

What to look for when buying

When buying any monitor, no matter what price there are several considerations to be taken into

monitor for. This may sound silly - you want a

but most can only display the higher ficker-fixed resolutions and are not suitable for games and

If you want to play games or stick to the lower

you get the cables with the monitor? If so, are they free? If not, where can you get them from Although not such a major problem these days, some older monitors or less popular models can

everybody who uses a monitor, like a car driver's seat, has their own peculiar positions and a tilt and swivel base can make life a lot Finally, consider connecting the Amiga. Do

which case you'll want as many different inputs as possible or know the require-

ап

Sound is, as already mentioned, really use your Amiga to create sound with, in which case you'll want a monitor with stereo speakers rather than a single or no

Convergence defines (in easy terms) how sharp the images are. Convergence problems result in poorly defined edges.

on a screen. The more curve the lesser the mage, thus straight lines look bent. Cheaper and older monitors in particular suffer particularly from this, while the latest TVs and monitors use flatter, squarer tubes

giving far superior pictures. Each of the monitors was checked with several Amigas (an A500, A1200 and A3000) to check the various display modes

Commodore 1084S, £199

A good place to start is the tried and tested Commodore 1084S. Originally launched many, many years ago as the 1084, this is Commodore's standard Amiga monitor and without doubt their best display yet. In reality a badged Philips model, otherwise known as the 8833 Mk 2, it is built by

VGA monitors and flicker fixers

Anyone who has looked at the A1200 will probably know

out us monitors?

Well essentially the new VGA resolutions give new resolu-ons and more colours. Whereas previous productivity odes offered increased resolutions, they were limited in the

any particular model, it will look good next

inclusion of all the necessary leads and it

has both composite phono sockets and 9-

just the standard low resolutions and

flicker modes, not the new ECS modes or

flicker-fixed displays. But then it is only

intended for the leisure market, not the

Only a single scan model, it displays

Easy connection is ensured through the

Whereas there are roughly three million-odd Amiga's scat-tered around the globe there are millions and millions of PCs, and thus a lot of VGA monitors to go with them. The end result is that you should be able to pick up a VGA

serious market. All in all, it's a great monithe Amiga - although it's not to close to tor for the Amiga home user, if a fraction

Philips CM8833 Mk 2, £293

The Philips CM8833 Mk 2, like the 1084S and 1085S, is a single scan monitor aimed at and home user. The

compatible monitor for a fairly low price if you wish to use

ing games, you've almost certainly come across the flick An annoying side-effect of Amiga graphics, it which mea that whenever high resolution screens are used, the screthat winerever majn resolution screens are used, on exceeding "vibrates" at a rapid rate, making it almost unusiable, at least with non-ECS and Workbench systems before v.2.0. The ECS chipset provided a new screen mode called pro-ductivity mode, which gives a reasonably high resolution

(640 x 480) yet doesn't flicker at all The only way to cure the problem on older m use a flicker fixer. There are two popular flicker fixers, the ICD Flicker Free Video Card for the Amiga 500 (available

1500 and 2000, A3000's have a built-in flicker fixer CM8833 Mk 2 is the market leader, and not without good reason. Like every leader

> designed by engineers who know what users want now and in the future. For various reasons during the course of this review I had three CM8833s lying around, and all had the same crisp display, bright colours and clear sound - surely tes-

tament to Philips reputation of being a manufacturer of quality monitors. The styling, while not as good as an ear-



Hardware

lier CM8833 derivative (the Artist, see insert) is smart and obviously a consideration at an early stage, rather than just being a after thought - as is often the case with

All the controls are available through a recessed panel at the front, which is, in turn, hidden by a flap down door when not

Without doubt a key factor for any manufacturer wishing to stay ahead of the field is the attention it pays to its major markets. While it would have been easy for Philips to take their standard model and sell it simply as an Amiga compatible, they have taken the trouble of including the cable Amiga to the D-connector on the back - a

small but welcome point. Further bending to Amiga users is a current promotion they are running. With each CM8833 Mk II is the game Lotus Turbo Challenge 2 from Gremlin, supplied free! Atari ST users have to send off for their

Given the build quality of the monitor, the sound clarity and overall superior picture appearance I have no hesitation in recommending the Philips CM8833 Mk II and giving it the Amiga Computing Blue Chip Award for best single scan monitor.

Philips build monitors for Commodore and the CM8833 Mk. 2 is the latest in a line of Amiga-compatible monitors, and cer-

Commodore 1960, £562

Commodore's own make. Surprisingly, the 1960 (given its Commodore origins) looks like it should be sat next to a dull PC compatible, which probably belies its real origins. I could find little reason to recommend this monitor over other manufacturers offerings. Its focus was way out and colours just weren't vibrant as on the Philips 7CM3209 or the Nec 4FG

A problem with all multisyncs examined is that they don't have any speakers. This is a direct result of their ancestry in the PC and workstation markets. These systems don't have the sound output qualities of the Amiga, and as such, their monitors don't

have speakers. One advantage of the 1960 is that it, unlike the other multisyncs reviewed, can handle all Amiga screen modes - including the standard resolutions

Given that it can display all Amiga modes, the 1960 gets a last minute reprieve for Amiga users, but if you don't want the lesser modes opt for something else. The picture quality just doesn't justify the price

NEC 4FG. £599

tor of all those I looked at, it also has enough controls to keep even the most gadget-crazed propeller heads happy In addition to size and position buttons

there are also options for degaussing and colour calibration. Colour calibration is a complex subject, and one which will become increasing important as the Amiga finds its way into more and more printing and graphics bureaux.

Essentially, colour calibrating is wysiwyg for colour. When scanning and printing colour images for serious printing (as in repro studios) the similarity between the colour of a graphic being scanned, what it

Jargon buster

Aspect ratio - The difference between the screen. This should be 4:3 - the larger the greater the distortion to screen images. Bandwidth - A measurement (in MHz)

monitor can handle. Higher bandwidths Composite - A single signal from the computer that contains all information needed

Dot pitch - Behind the screen is a mask

which is perforated with tiny holes. The CRT beam is fired at the this mask, and through these holes. The finer the holes the sharper the image. "Dot Pitch" is the

Flicker - Screens are physically drawn (see eye can see the display being redrawn, Horizontal Scanning Frequency - This is the figure to determine how often the Pixel - An old abbreviation of "picture ele-

ment". Each screen is made up of thou-Resolution - The number of pixels in the display area. The better the resolution (higher) the more pixels and thus the bet-

RGB - Unlike Composite connections, the signal in RGB connections is split into its three colour components - Red, Green and Blue

Scart - a Standard Connector for Audio tion standard for passing signals between two sources, in our case the Amiga and a monitor or TV

Vertical Refresh Rate - The time it takes the electron beam to draw a screen. The faster the refresh rate, the less noticeable the flicker.

The poison pill - radiation!

countries preventing high radiation-emitting monitors from being sold.
The health-conscious people of Sweden and Germany already have similar la and the combinations of these elements means that many of the world's larg monitor manufacturers now produce low radiation models.

looks like on-screen and its final printed

output is critical (hence the term colour critical applications). NEC's colour calibration takes care of this kind of problem, not quite as well as,

say, Barco colour calibrated monitors. but then they cost roughly five to eight thousand pounds each! The colour mode button triggers a feature NEC have termed AccuColour - a

way of setting the three electron beams used to draw the pictures. ning, with superior convergence and equal, if not slightly better, purity to that

of the Philips 7CM Also in the 4FG's favour is an Inver-Shadow mask (ie the grill behind the screen through which the electron beam passes). On the 4FG the shadow mask has slightly larger holes, which allows greater amounts of the electron beams to get through thus giving a brighter display.

(such as the flatter screen) make the display generated by the 4FG unequalled. However, and it's a big however, the 4FG has a price tag which, compared to the 7CM3209, makes me ask if its really worth it for Amiga use.

Don't get me wrong, the 4FG is undoubtedly the better monitor, but on an Amiga where you won't use half the features is it really worth almost £200 more? On a PC or Mac maybe, but on the Amiga I don't think so!

Philips 7CM3209, £258 From the outset this monitor impressed

me. The Philips 7CM3209 is the first of the Philips Brilliance range and certainly lives up to the name.

The displayed pictures were almost on par to the Nec 4FG but as it's considerably cheaper, I feel it warrants being the top monitor of its class.!

Starting with the controls, which are located under the lip at the front. In addition to the typical brightness and contrast. there are also another set for screen size

and position (vertical and horizontal). The only complaint with these controls is the use of icons to indicate what each does. While using icons may on paper be

just as easy to understand, what's wrong with words? It may just my own preference, but I think it's worth pointing out! Picture quality was great, with colour brightness being almost as good as the NEC 4FG (strange given the 4FG's better shadow mask), very good colour purity and reasonable convergence. Given its low price however it must rank as the best

value multisync monitor and as such gets Conclusion

At the end of the day buying any product falls down to what features you get, how relevant they are to you and how much you pay.

Given this combination of facts two monitors stand out, the Philips CM8833 Mk II and the Philips 7CM3209 in each class. The CM8833 Mk II provides wonderful, sharp images and a very good

The NEC 4FG comes in a very close second and fails not because of any failings on its part, but rather because it is priced as a high end monitor, and the Amiga doesn't need half of these features so you're wasting your money! The winner of the multisync monitor

therefore falls to yet another Philips model - the Philips 7CM3209. All the features you want without a high price!

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ntelligence

rtificial intelligence (AI) is one oing to give you a taste of what's

With SB Prolog available through the better public domain libraries you have, as far as I know, the only Al tool for the Amiga, and playing around with it is a great way of entering the arena. However, program-

ming in Prolog can take a

fair bit of brainwork, so before you lash out £15 on a Prolog text book, read on to find out what it's all about.

Hands up anyone who's seen Robocop. Remember the scene at the end where the other robot, the bad cop, does a lot of growling and chases hordes of people?

It's having a fine time wasting everything in its way until a flight of stairs introduces its first life crisis. The robot hesitates, extending a cautious foot, and topples over, falling straight to an ignominious end

The designers had forgotten to tell it about stairs! This rather contrived plot device. ieers right across the when I saw it, is, believe or not, an xcellent illustrain of the problem at the very heart of artificial intelligence. Work on building these artificial intelligences has been going on for around 40 years, and the big realisation has been that we have had the wrong idea about what is really

We've spent a lot of time getting machines to play chess, or predict upsets on the stock market, but the hardest targets are always going to be the little things, the things we humans find easiest. These are the things that continue to give socalled intelligent machines neryous breakdowns.

For example, no machine in PROLOG: yes the world could manage to sort and fold a pile of laundry fresh from the dryer. And even if it could, let the situation become one that the machine hasn't been specifically programmed for, like a sock being dropped behind the fridge, or an unexpected flight of stairs, and the only option for your Robo-Maid will be to lie down and take a couple of aspirins. Real intelligence, as the bad robot

found out, is the ability to adapt to the unexpected There are two main schools in Al at the moment - those people who think that neural networks

Knowledge Base Line: 1) ancestor(A.D):-parent(A.D). (2) ancestor(A,D):-parent(A,X),ancestor(X,D). (3) parent(albert,ben). (4) parent(ben.cath). (5) parent(cath,denis). (6) parent(denis,edwin).

the source code is the bit shown in bold. Don't enter the line numbers, and remember all the full stops).

SAMPLE DIALOGUE (A) USER: I- parent(ben, cath).

(B) USER: I- parent(denis albert). PROLOG: no (C) USER: I- ancestor(albert, cath).

Figure I: Ancestor knowledge

have and sample distance

hold the salvation of the human race (despite the fact that there are very few people around who can truthfully say they know exactly what's going on at the heart of a really massive neural net), and the old school, who have made considerable advances over the years, in machine translation, vision, expert systems, robotics and clearer to the average human. The differ-

We have had the wrong idea about what is intelligent...

> on early example of the expert system in action

Do you want to turn your Amiga into an intelligent life form? Philip Gladwin introduces artificial intelligence for the Amiga

machine

ence in the approach seems to come would, in their heart of hearts, be of the can be analysed completely, that can be who cared to read them, and that can be duplicated wherever you care to write

They believe that, given enough brainpower and enough time we can have a definition, almost a set of equations, which will once and for all pin down what

Replicas

On the other hand, those interested in building neural nets are generally those who believe that intelligence arises as a condition of having a brain like ours, contained in a physical body that is some-

gence is far too complex ever to be frozen in black and white, and will be aiming in some way to build artificial replicas of the conditions in which intelligence exists in ourselves, then sit back and watch the intelligence arise on its own. There are lots of very successful pro-

grams which solve specific, well-defined problems, like recognising a previously seen component on a conveyor belt, or recognising when someone's spending on their credit card has become unusual, (and therefore there is a possibility that the card is being used by a thief), but as far as building an independent agent that could be let loose in the real world - well, at the moment, forget it.

Think about it for a moment. Given that we know an infinite number of things about the world, and given that a computer has an finite amount of memory, how do we write even a fraction of these pieces of information down so that a

machine can use them? Well one very successful way would be to give the machine a basic number of facts, and then give it the means to reason to start with these central facts and

deduce conclusions from them. Precise

One way of doing this makes use of Logic. Logic gives us a language almost as powerful as English, but totally precise, and therefore usable by machines. It's based on the premise that you can represent objects as Terms - like x.v.z - and characteristics of objects as Predicates like p(x), b(y,z), c(x,y,z,...)

Given this, "green car" translated into logic could become green(car). To represent more complicated ideas there are Connectives like AND, giving us things like green(X) AND car(X)

Note the use of variables. Generally in logical descriptions like this you can think of X,Y or Z as "some sort of thing". So, "the hungry wolf is eating the peasant" becomes: hungry(X) AND wolf(X) AND eating(X,Y) AND peasant(Y).

are NOT. OR. and IF - which give us the

B. line Twin goal Goal 2: Parent (Albert, Cath) Fail (No fact matches) Goal 3: parent (Albert, x) Goal 4: ancestor (x,c) Line 1 Line 3 proves goal 3, x becomes Ben, goal 3 succeeds Goal 5: parent (Ben, Cath) PATH OF EXECUTION -

Figure II

ability to express even more complicated ideas, such as:

If ((grossbow(I) AND jonned(X)) DR (name(T,ethelred) AND frightened(Y) AND

Let's, finally, get to Prolog. Invented in the 1970s, Prolog (PROgramming in LOGic) is a declarative language - which means that, in theory, all you need to do is write down all the things that you know

to be true about the problem you want to solve.

When you want to find out something, (or more interestingly, when you want to deduce something), you just ask the system a question. Prolog is officially an Automated Theorem Prover.

This means that it deduces things by applying rules ("if you do this, then that will happen") to facts ("X is a Y", "two 8s make a C"). Like I said, that's the theory; it's not always so easy. To get into Prolog

you need to learn how to represent Facts, and you have to learn how to write Rules about these facts. A fact is something like "Tournalists are poor", or "I am a journal-

In Prolog you would write these facts like this poor(journalist) and

is a(me.journalist). On the other hand, "If you're a journalist then you're poor" is a general statement, or Rule. When translated into Prolog it looks like poor(X):- is_a(X,journalist). This is read something like "IF you can prove that X is a journalist, THEN you have

proved that X is poor."

Similarly, we can code the statement "Bob is Ron's parent" as the fact parent(bob.ron) Given a few Rules and Facts like this, we can manage simple

Think about family trees for a moment (I know that this isn't the most devastatingly interesting application, but this is the Prolog version of the "Hello World" program, so I'm afraid you'll have to grin and For example, Bob is Ted's grandparent if

Bob has a child, and that child is Ted's parent. If we put variables in instead of names (noting that variables always begin with an upper case character while constants always begin with a lower case character), then we can generalise and translate this piece of common sense into a machine readable rule: grandparent(X,Z):- par-



Intelligence

ent(X,Y),parent(Y,Z). This one says "If you can prove that X is the parent of Y, AND you can prove that Y is the parent of Z. THEN you can deduce that X is Z's

Got that? What about an even more general rule? Let's think about ancestors How would we state facts about X being some kind of ancestor of Y. like a grandparent, or a great-great-great grandpar-

Well, imagine a family where Albert is Ben's parent, Ben is Cath's parent, Cath is Denis's parent, and Denis is Edwin's parwhat's called the Knowledge Base:

Now, two things you can truthfully say about ancestors are: "X is an ancestor of Y if X is a parent of Y." and "X is an ancestor of Y if X has

a child, and

child is an ancestor of Y." Brilliant, eh? And on the face of it somehow not very helpful. But this is

where the clever stuff comes in. Look at what happens when these rules are coded

The second rule uses the most powerful tool in the Prolog system's armoury recursion. This is a notoriously hard concept to get your head round, but then again, once you've grasped it you've gone a long way.

To understand it we need to look at what actually happens when this Prolog program is run. A little diversion through

Every time you type anything in at the I prompt Prolog actually treats it as a new fact which could be added to all the facts you have given it in your program, and tests that it is consistent with them.

Look at Figure I for the knowledge base as it stands and follow an imaginary dialogue (the line numbers and letters aren't part of Prolog - I've put those in for ease

In dialogue A. Prolog is being asked if it is true that Ben is Cath's parent. It takes the predicate "parent" and looks down the knowledge base until it finds a predicate that matches (line 3).

It then sees if the arguments of the found. In this case the arguments don't match. It then goes on testing all the predicates in this way until it finds a

> Knowledge Base the very next predicate (line 4) matches

completely. It can therefore stop execution and report that, yes, it is true that Ben is Cath's parent. The guery has "suc-

In dialogue B, Prolog is asked if Denis is Albert's parent. There is no predicate in the knowledge base to match this assertion, and so, the answer is "no" and the query has "failed"

Dialogue "C" uses recursion for the first time. Follow the execution path in Figure Il to see what happens. Notice that, like most things in Al. you can represent Prolog trying to prove something as if Prolog was searching a tree.

Now, the big conclusion to take from Dialogue C is that by giving Prolog specific facts about parents, and general rules about ancestors, the computer is able to go off on its own and deduce specific facts about ancestors - facts which you never

Small scale You might think that this is all a bit of a

fudge, and on this small scale it doesn't seem so impressive, but when you have a system containing hundreds of thousands of facts and thousands of rules, then things really start to happen. In fact, by virtue of the fact that they

never forget anything they have been told, it's not uncommon for the newer Expert Systems to outperform any one of the human experts in the field.

Well, I'm out of space here, but I hope you've had your appetite whetted. Programming in Prolog can be a mind warping experience to begin with, but after the initial traumas are over it seems to get very easy very quickly. It's certainly my favourite language, and if you want to get anywhere in artificial intelligence it's a must. So order a copy today and give it a go!



Using Prolog

As soon as you've got your hands on a copy of SB Prolog, the first step has to be to print it's a bit of a tough read, but you're not going to get anywhere without it. I used PPmore, and it came out beautifully formatted. One word of warning - it's over 100 pages long, so make sure you've got enough paper.

Once you have this manual you can use it to install the program. Make sure you pay attention to the path variables, so that the interpreter will know where to look for your source code files and its own library files. Once you have Prolog running you will be faced with a 1 - prompt (user friendly, eh?) and you can start running your fancy

What do you mean you haven't any programs? Oh, use mine until you've written

You load source files by asking Prolog to "consult" the file. There are two ways of doing this at the prompt - type either consult(filename), or use the short-cut and type [filename]. When it has finished looking at your code (a very lengthy process, so don't be too worried) you run your program by typing GO. When Prolog has finished it will echo either "yes" or "no", depending on the success of your query, and return you to

And finally, a word of warning. You need at least 1Mb of memory to run SB Prolog. I have 3Mb, and experienced no memory problems, so I guess that somewhere in the middle is the optimum. And, how can I put this? \$8Prolog is not fast. In fact it's slow Catastrophically slow. But never mind. Keep making cups of coffee and you'll be OK.

Jargon buster

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rade Distribution by



inal Copy II encompasses a whole range of other advanced features, here's just a selection:

♦ Use the Lew Welchook 2 (b) is indice on all Augins 40 to some command above control forms are downess with to simple 42 to 30 to 1 citable; pure hands on all updates command in 1 file page, maker page 4 oph 4 seet 9 lighted pages with hading often 40 gene maker downess 4 file times downers a first and contract pages and contract pages and contract pages and a file and pages and a seed and a mention of the contract pages 40 to 1 file and pages 40 to

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P. **O F.**

Name & Address Volumes & A



ver since the release of the A4000 and A1200 there's been something of a dark cloud over rumoured DSP - alias digital sound pro-

cessor - failed to appear. As a result, the dream of CD-quality

sampling seemed as far away as ever for anybody on a tight budget. However Microdeal are set to add a silver lining to amazing sampling system which retails for

Thanks to the external connection of the sampler any Amiga can take advantage of the system, but it must be said that Clarity is only really at its best on accelerated machines such as the A1200, A3000, or standard 68000 machines fitted with 020's, 030's or 040's accelerators.

compromise takes the form of a maximum playback of just two channels as opposed to the four of their accelerated counterparts.

A4000 cure

As the more observant may have spotted, there's no mention of the A4000 which as yet doesn't work with the Clarity the next update which should be available soon - keep a close eye on Amiga Updates for more details.

Actual installation of Clarity is simplicity itself with just two leads connecting to the parallel and serial cables to the machine.

two complementary phono-outs Alongside await the units dual I/O Midi

ports which play a vital role in order to get the very best from the system. Having said that, Midi hardware isn't vital but if you have a Midi-compatible keyboard lying around Clarity offers an excellent opportunity to exploit its potential.

Amiga musician will feel quite at home thanks to a familiar selection of editing commands. However the available range tools extend much further than the stanmands. Some of the more advanced

options allow you to record, overlay, insert and mix within blocks from various samples which can then be touched up with

the freehand or fading options when Other features allow volume and pan adjustment in/out fading plus a selection of low, high, band and bandpass filters, not forgetting the invaluable normalise function which automatically re-computes

Paul Austin lends an ear to yet another Amiga sampler but

to its ideal maximum

For those who take their sampling seriously the ability to customise the software to suit their particular setup and requirements is essential and via the programs Options menu you can do exactly that

Essential

From here a whole host of well thought-out features await. These include the essential play-back options which allow you to specify whether the samples emanate from the Amiga or Clarity itself. After the playback controls come the

with the built-in sequencer and Midi map functions. Yet more options allow the use of the Amiga's built-in loto a definable audio trigger that kicks the sampler into record above a certain input volume. Next up comes the fast Amiga

Software

Quality control



Software

channel for use with an external keyboard plus its chosen protocol and bit transfer

settings. At last we've arrived at the final notable Configuration allows you to load save vari-Parameters defines the default settings for a new samples - again load and save-able

Custom screen

Alas the program only opens windows

own. Not a huge problem but an option Although impressive as it stands there

sequencing is very limited, the lack of a D Sample Sequencer **Special effects**

Modpilds the general purpose citting took avail a series of five special effects included by the control of th

timecode will mean difficulties for serious quality samples are only on offer to those

Control

very, very impressive product. It's true that for professional use it still remains a SunRize sampler which is ideal for DTV

upgrades for Clarity do see the light of day the system would be almost unbeatable. Still, even as it that comes even remotely close for

price and



multiple







8:88:88:69 Pause 8:88:88:89 Heartbeat 8:88:81:50 Pause 8:88:81:78 Heartbeat 8:88:83:85 Heartbeat 8:88:86:48 Circus 8:88:15:84 Roissy 8:88:88:88 Rotssy 8:88:88:88 MEET The built-in sequencer is useful, but a bit of disappe

Sample pad The sample pad when active displays all the samples

editing.

Metering

Signal metering plays an essential role and when active

required. Alas, the aforesaid window only becomes active recording - slightly annoying as any clipping can only be

Midi control

Point and click

feature enters the equation in the form of a Midi Map. To

click and drag over the required notes on the mini keyboard, then click the fix button to confirm your selection. you can map an entire seven-octave keyboard with as

There's absolutely no restriction on how samples are Ever wanted that certain sound but couldn't afford the

sequencer as a basic Midi on Midi off is all the sampler

But having said that, an external sequencer or sec-

enough, there's even more good news in the form of a Midi Dump function which allows the samples created within Clarity to be ported to a sampling keyboard or As you can see, the benefits of a Midi keyboard are

hardware all is not lost as there is an F-key option allows up to ten samples to be triggered from the function keys with pitch adjustment applied via the numeric keypad - if you've got one that is....

Sample sequencing One of the few disappointments of the system revolves

around the built-in sequencing options which allow just single track, single sample, playback which means there's no way to take advantage of the sampler's multiple playback options

Even the various samples on the single track won't overlap which means fairly limited appeal for most

Although fairly limited, the editing and creation of insert, paste, and cut samples which are chosen directly from the pad list, adding definable repeats, pause and wait times as required.

Real-time effects

Just like every other package the Clarity software designers couldn't help adding real-time effects which attempt to emulate a signal processor. Alas, just like its predecessors the attempt was fairly

unsuccessful. Still, if you fancy a giggle after the odd pop it's fairly amusing and instantly available via the final icon

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January's GVP A530 competition was won by Russell Margerison of Lancashire.



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Award help

In your letters page of Issue 55, you printe a letter headed Award Seeker in which the writer enquired about a program called Award Maker Plus. You replied by saving that you were unaware of the existence of the program.

Well, it did exist back in 1987, but whether it still does I don't know. The company name is Baudville Inc of 5380 52nd Street, Grand Rapids, Michigan 49508, and their phone number is (0101) 616 6948 ORRR I hope this information will be of help to

your reader, as I must agree it is a first class Stephen Bulmer, Waterlooville

Thanks for taking the trouble to write with your assistance for a fellow Amiga user. I hope Lance Corporal Till is reading this page and can take advantage of your helpful information.

Back issues

Please give me some information on old issues and how far back they are obtainable. If possible, quote the subscription price charged to Visa card purchasers.

Ole Rasmussen, Holte, Denmark

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To subscribe for a full year. European readers can expect to pay £44.95 including postage, but check out each month's subscription pages for the latest offers to

Honest Pole Hi! I had an illegal copy of Amos Pro, and I

really like the program, but I don't want to have a pirate copy of it. In my copy, there was a help file that said if I wanted the Compiler, extensions,

and so on, I should contact Europress, so in an old issue of Amigo Computing. I would like to buy a legal copy of Amos Pro. Is that possible? If so, can you mail it. to me? What is the cost of shipping and

Also, do you accept money transfers, and if you do, what is the account number

Semir Gebran, Krakow, Poland Thank you for your letter and your honesty. I

Software who, incidentally, can be contacted

you, but you can always write to them they have access to illegally pirated copies,

Air crash I read your magazine every month from

sion of the A320 flight sim. I made a copy of the flight log and carried out a few train-

not able to boot from that disk again. wrong, I re-copied the flight log and the result. As my package is more than six months old, and because I don't have a receipt for it. I decided to return it to

Thalion in Germany, thinking that as I had registered with them I had a kind of guar-November, and I still have not heard from

Bob Cooper, Calne

The problem sounds simple enough -

If you have registered with the company tion, you have every right to expect them to claim depends on the wording of the company's registration card.

Rather than soend money on phone calls is Thalian's PR representative in this country, and I'm sure he'll be happy to help.

A better deal from Commodore?

issue on the A1200 and the fact that it is only £100 more than the A600. I bought an A600 two months ago for £399, before the £100 price drop, so when I read cheated by Commodore.

Ripped off is the word! I could have bought a better machine for the same price or saved myself £100, and when you're unemployed as I am, this is a lot of money. I even wrote to Commodore but they just replied with some excuse about business considerations and so on. but, no, they haven't bothered.

about it? All I can say is what a bunch of cheats!

I and I'm sure many thousands of other Amiaa owners

I have sitting at home is, though still a workhorse I rely on the office. However, I don't blame Commodore for putting my age

There are ways and means of course by which progress However, we can't complain about the release of the

A1200. It is a giant leap forward for base-level Amiga own-

If these reports didn't reach your ears, then you really should buy Arniga Computing more regularly!

the thousands of Amina users in your predicament, a new upgrade offer would seem the answer. There have been



Hicks - the return

Kickstart bug

I purchased your January issue, and I cannot get Fighting Warriors to work. I have followed the on-screen prompts, but every time I use the Make-a-disk icon, it comes up with "disk is write-protected". This happens whether or not the write protect tab is in the enable or disable position. Can you tell me how to get round this?

Kevin Prvke, Fareham

Your problem is caused by a bug in Kickstart 2.04. When a user boots from a write-protected disk into a Workbench environment, such as when the CoverDisk boots, then tries to format another disk, the target disk will always appear to be write-protected.

This is a Kickstort 2.04 problem rather than a CoverDisk boo-boo, and it can be neatly circumvented by booting with the CoverDisk write enabled. For all the hassle this bug has caused our readers, we at AC would like to send Commodore's software messages. As you've already pointed out, the configuration utility works in spite of what Protext thinks

Trade war

I have been following the news on GATT

possible trade war between Europe and the USA. Would I be right in thinking the vast

majority of software and hardware is imported from across the Atlantic? I've just made a quick review of my own Amiga setup and, calculating the dollar value of the equipment and programs I have, then adding 14 per cent for the devaluation of the pound plus a further random figure of ten per cent for trade duties. I reckon I would have paid about £250 more for my

I know the various politicians are doing their best to sort things out and that the real problem is to do with French farmers.

If only they would give us a definite answer or date for hostilities to commence. At least that way I could bring forward any

You may have spotted the odd news story concerning possible Amiga price rises in the new year. Due to the fact that Amigas are really only assembled in Irvine as opposed to built from the ground up and that most electronic components are paid for in dollars, even If they don't originate in the USA, roughly £30

war, even if such an event came to pass it is highly unlikely that trade tariffs would be imposed on electronic goods, as the main

area of contention remains agricultural. You may end up paying more for your Paul

talks and so on with some interest, and it has occurred to me that the Amiga world could be badly affected by any

kit under today's conditions.

spending plans I have and save some money

John Baldwin, London

could be slapped on the price of all A600 and On the subject of a GATT-induced trade

Masson, but RAM expansions and software should be unaffected.

program thus becomes confused as it tries at first to come printer files and so on from a Don't worry about the machine's error A600 heading for Hell?

disk which isn't available.

engineers and Kickstart bug-testers a

big, wet, sloppy New Year kiss of the

kind administered only by ageing

spinster aunts in your worse nightmares.

Protext puzzle

I am a new subscriber to your magazine

and I am very pleased with the content of

each issue I have received so far. You have

really excelled yourselves with January's

CoverDisk of Protext 4.3. What a brilliant

always a catch - Ed). When I set up the

configuration to my individual preferences

and save to the program disk, the com-

puter replies "please insert volume pro-

text_program_disk in any drive", then asks

"please insert dictionary/utilities disk in

any drive", after which it says "failed to

However, when I go back into the pro-

gram the changes have been made. Why

all the disk requests? Am I doing some-

Protext as sold in the high street comes on

two disks, one for the program and one for

the dictionary, though we've squeezed the

best bits from the dictionary drive onto the

same disk as the program for our CoverDisk.

When Protext configuration is altered, the

Martin Kaminski, Horsham

copy printer driver to config file".

thing wrong?

wordprocessor! Thank you very much. Just a couple of questions (there's

I have owned an Amiga for two years now, and in both of those years Commodore have released new machines, causing incompatibility problems. What I would like to know is when will it Is there any truth in the rumour that the A600 will be joining

the A500 in that big open space known as hell? I was fortunate, or so I thought, to upgrade to the ASOO Plus last year, thinking that I was safe for a few years. What now? I have also heard that the A1200 is not as standard as

Commodore would like it to be and will be upgrading it further next year. Is it really necessary to buy a 1200 or am I all right for the moment? I am very frustrated and upset that Commodore are forgetting us A500 owners. Maybe it's time to buy a PC. Mick Wilson, Barwell

Hopefully, Commodore's policy of continually improving the Amiga range will never be dropped, and the flow of better, more powerful Amigas will go on for a long time to come. Incompatibility problems

are a pain in the backside, but unlike some manufacturers (who may or may not have released an avian relative to the turkey over the festive season). Commodore are not attempting to hide the fact that the A1200 is compatible with only about 60 per cent of Amiga

At the moment, Commodore say they have no plans to stop producing the A600, and it is highly unlikely that they will. The stated intention is for the A600 to become the Commodore 64 of the 90s, and judging by the incredible pre-Christmas sales of this cheapest ever Amiaa, the A600 looks set to continue for a while (famous last words? - Ed).

As for the A1200 being upgraded, there will be a number of third-party add-ons to boost the machine's processing power, as you'll see from this month's news pages.

The AGA chipset may in the next couple of years be superseded by the AAA (triple A) chips, but this doesn't mean the machine is going to be dropped. The A1200 is now the entry-level enthusiast machine and will remain so for at least a couple of years.

Falcon intrusion

As a recent A1200 owner, I was dis-gusted when, on flicking through your January issue, I came across an adver-for the Atari Fakon! What is the mean

ny big improvements over AmigaDO

. Why are Commodore suddent Why are Commodore suddenly adding lots of numbers to a little changed operating system?
 Finally, are there plans to release a CD drive for the A1200, and how about a 1.76Mb floopy? Where are all the

third-party developers when you need them? Do I win £10 for spotting the Falcon blunder?

Obviously, with xenophobic response web as yours being the norm in the Amia

fully 32-bit machine with vastly different chips, 256 colours, 1.76Mb floppies, am so on, you have a measure for chang

pages for details as we receive them.

The A670 CD-ROM drive should according to Commodore, be available.

LP1200 LASER HP LASERJET III™ COMPATIBLE • FLASH ROM UPGRADEABLE!

is a risk area some manufacturer are considering prior inter, as the pound strongle agond freque currences, titled Spatement as made immediately find the proposed to the PRM for only CTM-or CTM or C Laser Scoop purchase the Land Marvisors of the research analysis of the Land Association (1997). The contract of the land Association (1997) was a produced to the land Association (1997) which is the land Association (1997) was a produced to the land Association (1997) which is the land Association (1997) was a land Association (1997) which is the land (such as using Microsoft Windows Notes. Unique additional standard features include FLASH ROM: "Inture proof technology and LAYOUT" – a powerful document description language. The LP1200's unique Internal FLASH ROM. which holds the printer controlled formware, can easily be updated as new developments in technology couch. This protects the investment you make in buying a Rooh LP1200. Other invastment you make in buying a Richol IP/DOX. Other protect Internal IP-SAR MICH and including statistical FLASH ROM IC cords can also be used to preparemently since hosts, makes geather and exist preparements which statistics and the size IP/DOX includes IA/TOUT as powerful document IP/DOX includes IA/TOUT as powerful document which other size IA/TOUT in IA/TOUT AND IA/TOUT IA/TOU The LP1200 comes complete with a 100 sheet A4 paper tray and the facility to feed single sheets of paper and card up to 157 figure. An optional extra universal feeder provides the facility to automatically feed up to 150 sheets, from sizes of 90cm x 148men to 218mm x 356mm in size, at weight of up to 158gm. It can also feed up to 15 envelopes, overhead transpersories and labels automatically. SHOWN WITH UNIVERSAL FEEDER TOP TRAY CORPORATE SALES TEAM . 6 PAGES PER MINUTE THE LP1200 IS A GENUINE LASER PRINTER AND NOT AN LED PRINTER MAKE SURE YOU CHECK THE COMPETITION! • PCL5 - ₩ HP-GL/2 See how the Ricoh LP1200 compares to its Laser Printer Competitors SHARP EDGED PRINTING 400dpi RESOLUTION CS45 C3,170 C1,098 C1,099 C1 300+300 300+300 300+300 300+300 400 us 200, 240 8 400dpi.) 2Mb & 4Mb RAM VERSIONS Sporn UNIQUE FLASH ROM IC CARD SLOT EXPANSION BOARD SLOT LAYOUT Document Description of Text Output • SERIAL + PARALLEL PORTS 1 YEAR ON-SITE WARRANTY

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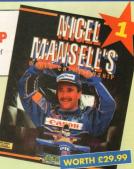
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The magazine for Protext users. Packed with information to help you make the most of Protext including mail merge and macros, printing solutions and tutorials.

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

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

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

Lapcat prices:

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

With software for one computer £40

Software for extra computers £10 FACH





e'll open with an old favourite that's had some oths but has once again silenced its critics with a series of improvements which reaffirms its position at the top of the image-processing tree.

The package, or should I say family of software, in question comes from those masters of the computer image, ASDG. Although the upgrade in question primar-By concerns MorphPlus, this in turn spreads directly to our old friend ADPro. as any improvement in one becomes a shared asset between both.

The changes revolve primarily around animation and batch processing. Areas in which the ADPro of old made hard work of, especially considering the programs mpressive selection of ARexx commands. in an attempt to silence numerous moaning punters, ASDG released FRED -





an automated frame editor and batch processor designed to appease even the most irate animator.

Alas at the time ASDG were naive enough to think that busy users would then make the additional effort to write the scripts which the ADPro and Fred combination could then incorporate into their batch processing exploits.

This was simply not the case as few took up the challenge of ARexx script writing which in effect left the potentially excellent Fred rather redundant At last the ADPro software engineers

have come to their senses and released what the vast majority of users have been waiting for - a version of Fred that comes complete with a mouth-watering selection of pre-written ARexx scripts which

about to be wiped away

can be easily incorporated within Fred without even an ounce of ARexx awareness on the part of the user

a complete animation

For example, you can now load any number of frames in any format, apply the operators you want, render the results in and then save out as an IFF, Jpeg or even

By pure chance the reference to animation leads us on to the next major improvement in the form of two additional dithering modes, both of which produce excellent results but perhaps equally important use only a fraction of the deltas employed within ADPro's original dithering modes. The end result is This month spring cleaning starts in earnest with a whole host of revisions ranging from ray tracing to titling.

smaller files sizes and in turn an increase in speed during playback

In the past I admit to being one of the first to complain about the lack of easy automation within the ADPro environment. Now however I'm more than happy to take it all back as in my opinion at last the ASDG image processing system is complete.

Thanks to the combination of ADPro, MorphPlus, and of course Fred, ASDG can rightfully reclaim the static and animated image processing crown. If you can afford the asking price it's a must...

or more details contact HB Marke on: 0753 686000 hPlus (including Fred): £199.95

Broadcast Titler2 SHR

If you're a relative newcomer to the Amiga, the words Broadcast Titler2 may be completely new rather than something of a distant memory.

Although newly updated, the program itself speaks volumes for the quality of the product in the fickle world of software. Even though fairly elderly it nevertheless remains the Amiga's premier dedicated video titler

For those who've not come across the package as yet a brief synopsis is in order. It's true that presentation/multimedia packages such as Scala do an effective job as both presentation systems and pseudo

BT2 on the other hand has no preten sions towards anything other than pure titling. Their new variant has been designed specifically to take full advantage of the relatively new Super-hi-res screen modes offered by machines equipped with the ECS chipset and above found within machines such as the A500 Plus, A600, A1200, and A4000.

If equipped with the necessary Super Denise, the program can now display in 1,360 x 550 pixels, providing a true 35 nanosecond pixel resolution that's equivalent to full commercial broadcast quality other Amiga-based titling or presentation

Fred, simply the best patch processor in the business

International Fonts

A classic example of the colour output of BT2

PLAYBACK OPTIONS Access Sequence Playb · Preview Status Bar ·Play-Sequential, Randor Presentation, GPI Start ·Loop/Key Advance Mod ·Auto-Booting Sequ

Software

system. Unlike many pseudo-titling sys-

tems. BT2 offers full video spec overscan in among a whole host of professional titling essentials including a selection of high quality anti-aliased fonts which can be expanded via two font packs offering

20 new anti-aliased fonts. If that's not enough for your particular graphic appetite, a bitmap font converter comes with the package allowing the user to convert standard bitmapped fonts into

their anti-aliased BT2 alter egos Super hi-res is not the only display platform offered by the software, as both standard and super hi-res text can be mixed on the same page - although not on the same line.

As you can see from the screenshots, the package can present an impressive array of colours on a single page - up to 320 in fact - regardless of the machine the package is running on.

This is particularly impressive when you consider that non-AGA Amigas have a maximum of just 16 colour when operat-

ing in hi-res. Although the 320 offered by BT2 appears to be something of a minor miracle - as ever - there's a small price to paid as the software will not allow multitasking. re-boot the machine.

Alas, the aforementioned screenshots, although colourful, cannot relate an equally powerful aspect of the package, namely the huge variety of effects that can be applied to either entire pages or individual lines. Unfortunately it's impossible to apply page and line effects on the same page but in practice it's a small price to pay for the exceptional colour and the quality of the available effects

Having raved about these varied features it's time for the bad news, which primarily revolves around the price - at a little over £250 it's just about as much bad news as most people can handle on the average day.

Still, as someone undoubtedly once said, you pay for what you get and in the case of BT2 you get a broadcast-quality product that may not be as simple to operate as some but nevertheless provides as-yet unparalleled performance for the

professional videophile.

The Essence of **Imagine**

If you're among the ever-growing band of Amiga 3D modelling and ray tracing fanatics, the word Imagine will be a familiar one. Although a real enthusiasts' package in its early days, it has now matured into an almost unrivalled ray tracing and animation

Due to the success and complexity of the package a family of support products have **Hot news from Activa**

hile we're on the subject of ray tracing, it's time for a quick mention for the navian creators of Real 3D who are about to release their seguel to Real 3D

A sacent visit to Alternative Image I was lucky enough to get a sneak prev the package which as yet is untitled but nevertheless reveals a degree of po exity which puts even our old friend Imagine to shame, especially con

As ever, AC will be the first to bring you the definitive review as and when the schage is released, but for the time being I can confirm that the aforementioned cal 3D 1.4 Turbo will be retailing for just £60 when its all new replacement hits

This is nothing short of astonishing considering the former price tag of the

package approached £300 prior to this new release – obviously Activa have a lot of confidence in the appeal of the new program. Let's hope their confidence is For more details contact Alternative Image on: 0533 440041

vague manual. Now the add-ons have

spread into the software in the form of

Essence, a collection of 65 all-new textures

which via intelli-heads are compatible with

all versions of Imagine and its predecessor

ing products, Essence are mathematical

textures and not brushmaps, which

means that each individual point on the

object is mathematically shaded rather

Unlike various supplementary ray trac-

Turbo Silver.

perfect results.

Price for Real 3D v2 as yet to be

in to the object, plus there's the equa important ability to customise the texture to your own design. For example, the size of the texture car be completely controlled and this include

altitude textures which produce the illusion of ridges or bumps on the surface of the object A particularly fine example of the advan tages offered by mathematical generation the Mandelbrot texture which whe

than simply wrapped in a brushmapped zoomed in on reveals more and more deta skin which all to often produce less than without losing any clarity. Animation is another strength of the co lection as the textures themselves can be animated within a sequence. In the case of the assorted fractal noise offerings this car mean swirling clouds of gas or smok

within the anim An equally impressive and useful add tion is a digital clock display which can be defined to as many decimal points as you wish then automatically animated within the scene to produce countdowns an assorted control panel displays.

Fortunately the collection doesn't consis entirely of glamour effects - in fact there's reasonable selection of utility texture which are ideal for everyday scenes.

Such textures include numerous floo coverings, marble, bricks and checks for both spheres and cylinders, tree bark plus series of transition textures which can o course be animated as required.

As you can see, Essence is what man Imagine fans have been waiting for, but a usual anything to do with Imagine tends to be to rather complicated. This is personified by the various fracta

noise textures which have an entire chapte of the manual devoted to them in a fairl unsuccessful attempt to explain their proper application. In short, if you're an experiences Imagine user Essence is highly recom

mended. However for the newcomer I'd strongly suggest another six months with the Imagine manual before investing in collection you may not be quite ready for.

In addition, because all the textures are appeared including a number of reference mathematically generated they will not books designed to complement the rather degrade no matter how close you zoom

One of the old favourites of raytracing after the Essence treatmen

The history books are full of infamous characters who have tried to dominate the world, but have failed. Now here is your chance to write your name on the next page of history.

Quantum Software have developed a new game system enabling you to play against 5 other human players throughout the United Kingdom. This system is called Interactive Computer Play (I.C.P.). Although the origins of I.C.P. is stem from Play 8 yall, Quantum Software have taken this a step further. The game is played on your computers ain any other computer game, the difference being that in order to interact with other players all turns are saved to disk, forwarded to us for processing the your computers. All turns are on an apouts of fornicishi body and the players all turns are saved to disk, forwarded to us for processing the your computers. All turns are on an apouts of fornicishi body and the players are the players of the players and the players of the players of the players are the players of the play

Global Conflict is a contemporary strategic wargame for 6 players. The game is played on a world map consisting of 3 different countries. The computer will randomly choose 6 countries, one for each player. The remaining of countries are neutrals controlled by the computer. A player needs only to retain occupation of any one country to remain in the game.

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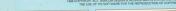






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ageSetter, more than most DTP packages, has been skulking around in various guises since the debut as a knock-down budget black-andwhite page layout program to the relative PageSetter 2, the program struggled to

The market for such packages has been shrinking over the past year as more and more wordprocessors, the latest example of which is the startling Final Copy II, have adopted DTP-like properties.

Luckily for Gold Disk, the gap between current wordprocessors with basic DTP features and full blown professional packFaurletter? S1992 Said Disk Inc. | Virtua Walley

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hills look sort of computer generated here to stay, as millions of devoted VC fiens flock to Virtual Valley for another summer of simulated balond

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ond ad fivers off all shapes and sizes

Typesetting goes ages yawns wide enough for another technicolour The problem is that the niche has very

Stevie Kennedy tries to become a back bedroom publishing tycoon with the first AGA full-colour DTP package, PageSetter 3

well defined and difficult to meet survival requirements, and only the tightly

designed inhabitants are going to make it PageSetter 3 (PS3), with its evolutionary history, has a running start in that the

essential elements are all in place to begin with. The program's designers long ago and which to exclude in order to fend off the smart Alec wordprocessors while not impinging on ProPage's market.

Version three of the program is simply a logical step on from the PageSetter 2 era, taking advantage of the new AGA chips to bring true colour DTP to the Amiga for the first time. The program has never been designed to produce long documents and. though capable of handling multiple-page flyers or fanzines, is not the ideal tool for

such jobs. In reality, the package lacks a master page facility, will not create or view left and right facing pages, and is best used as a simple page layout utility for such publications as advertisements, single page fly-

Page size can be up to 17 inches square, but most will settle for the standard selection of A4, A5, A3, and so on

which are available at the click of a As usual, custom pages can be created by simply choosing a measuring system

(only two - inches or centimetres - are on

offer), then providing values for width and

Once the page creation process is complete and the user has a page on-screen complete with columns, the first job he or she will want to do is import some text or jazz up the page with a graphic or two. Unfortunately, though text importation is not a problem, graphics must be in either IFF bitmap (ILBM) or ProDraw clip

No other popular DTP format, such as Encapsulated PostScript (EPS), TIFF, or the

IEE DR2D structured drawing standard is recognised, so although the supported graphics cover most of the clip art available in the public domain and any output from packages such as DPaint, PS3 will be unable to communicate with many art

For example, SoftLogik's Art Expression, reviewed elsewhere in this issue, saves its files in EPS and DR2D, both accepted

However, it does not support the Gold

Output options

Printing is one area in which PageSetter 3 is very close to the more expensive DTP packages. Both PostScript and non-PostScript printing are supported, and though the non-PostScript option is labelled "Dot Matrix", PS3 is quite happy talking to the gaggle of bubblejet and inkjet printers PostScript support, remarkably enough for a mid-range

package, includes full colour PostScript, with control over roll paper printers such as the linotypes used to produce In addition, the user can scale the page, define X/Y offand portrait, or decide to print a draft copy to test a layout.

Non-PostScript printing is equally well catered for. Unlike most packages I can think of, scaling is included as an option on the dot matrix requester, accompanied by There's also a print to disk facility and downloadable the more common density buttons, a landscape option, fonts can be included by clicking a toggle switch. In all, and dithering controls. Colour printing is supported and all there's little which the average user could wish for which non-PostScript output can be printed at up to 300dpi. For

Current Page (Document 1Draft _) Grey Scale Output Scale: X1.88 Y1.88 Color Correction Offset: X8.8888 Y8.8888 Dither: _)Ordered

√|Eject Page Landscape _) Halftone)Floud-Steinberg Driver: PostScript Density: (6))) DPI: (388, 388) Cancel

> those nervous about printer drivers, PS3 does not, unfortu nately, use its own drivers, so the Workbench preferences drivers, augmented by specific shareware programs, will

> Final non-PostScript output quality is therefore more or less dependent on the printer and printer driver rather than

Software

Disk ProDraw standard, demonstrating the latest example of the petty lack of cooperation between manufacturers which has bedevilled the Amiga market since day one.

This complaint aside, PS3 has inadequate graphic support, even for a midrange package, and should support at least the EPS format if it is to make good its claim to be a "complete desktop pub-

Text support is much better, and there are filters for popular wordprocessors such British WPs are supported), as well as Ascii and PC-style Ascii, so there should be few problems on the text front at least.

Hotlinked

If previously available text or graphics are not used, the PS3 owner can take advantage of either the Article Editor or Graphics Editor for the creation of text and graphics from within PageSetter. Both and both are hotlinked for ease of use, though using them in this way requires about 2Mb RAM.

To use the Article Editor, a user simply clicks in an empty box or one containing text, then selects Article Editor from the Edit menu for PageSetter to load the program and pass it ready for changes.

When editing is complete, quitting out of the Article Editor returns the and the user can con-

tinue with page

Faster editing and the ability to change text without doing so in the clumsy envi

ronment of a DTP package are the main advantages of the system, but as the Article Editor is really a cut-down version of would also suffice as a basic first line text

The Graphics Editor is capable of editing back and forth in a similar fashion, and has enough features to act as a simple standalone paint package, but as it is incompatible with any other type of graphic its use is limited. I would have been much happier if a link between PS3 and ProDraw 3.0 had been supplied.

Within PS3 itself, graphics tools available from the onscreen tool box include line. rectangle, polygon, and have user defined colour, line weight, fill, and fill pat-

There is no facility for gradient fills (vignettes), but these can be added by owners of ProDraw 3.0, so those users in need of high impact pages should find most of their needs satisfied. Design limitations include

no rotate facility and a lack of skew or flip, but possibly the most inflexible aspect of PS3 is Gold Disk's Fordian can be any shape so long as they're rectangular.

around a box, and as even the built-in ellipse drawing tool creates an ellipse surrounded by a box, automatic text flow around irregular objects is impossible.

ble makes for the ideal productivity environment, but as The program handles text flow for you, but only Exchange (DDE), and few manufacturers have adopted because there is no choice as to how it is used.

The resulting pages will always look basically similar unless the user resorts to the incredibly old-fashioned method of making the target object permeable (so text would normally flow straight. through it), then surrounding it with several small invisible boxes round which the

A palliative palette

It was with a certain amount of pain that professional Amiga users watched the Mac stroll away with the lucrative DTP market back in the bad old days when the Amiga could only muster 16 colours in any decent resolution, so the release of the AGA chips and the first full colour DTP package comes as a

Though hardly a professional package, PS3 is ponetheless much more useful for colour productions than either ProPage 3.0 or PageStream 2.2 simply by virtue of its use of 256 colours.

These are displayed quickly, dithered almost as

rapidly as Final Copy II handles its graphics, and make judging whether a certain colour of headline suites the picture it will sit beside much easier

Any 24-bit or HAM8 IFF imported for use in PS3 is automatically converted to 256 colours, a process which can take a long time with large files, but once on-screen they can be moved around quickly and eas-

ily, despite the fact that the on-screen picture might represent an image file of well over a megabyte Users wishing to take advantage of this sort of DTP work should be aware that at least 3Mb RAM is



text will flow. This is a time consuming, but effective, cheat's method of creating of Final Copy II. the appearance of irregular text flow, and one which Gold Disk themselves seem to PageStream or ProPage would be well advised to give PS3 a look, but I can't help have used on the back of the PageSetter

Another slightly dodgy piece of information on the packaging is the claim that PS3 "supports AGFA Compugraphic and PostScript type 1 fonts". Strictly speaking, PS3 supports only Compugraphic fonts, and will use Type 1 fonts only after conversion using the Gold Disk font manager program supplied with the package.

However, font manager has problems with shareware Type 1 fonts, the most common among Amiga users, as it looks for official AFM files used by commercial fonts. Utilities are available in shareware Metric) files from the PFB printer font files,

but the process is a lengthy one. Happily, several companies, among them EM Computergraphic, George Thompson Services, and the Font Shop (see the Locator for details), now offer collections of Compugraphic fonts, so the problem is not as severe as it was a

year ago. In all, PageSetter 3.0 is a flawed product, but not flawed enough to put it out of commission. At its present retail price, it still offers the best value-for-money budget DTP solution around, with the only

possible competition coming in the form Those without the resources to go for

thinking it would have been a much better product if not designed by a company with the protection of its flagship product (ProPage) in mind.



the SoftLogik HotLinks package, there is precious little talking going on. ARexx is as close as the Amiga comes to a common language, but as it is only spoken by those prepared to learn a programming language it is not acceptable as a

PastScript output in colour to a linetype from a budget package? Yumi

Parlez-vous Amiga?

Unlike ProPage, PS3 has no ARexx support and thus no

macros (or Genies as Gold Disk insists on calling them),

and the lack of any general hotlinking capacity, not even

the Workbench 2/3 hot links used by programs such as

Communication between as many packages as possi-

On the other hand, though of more use to we nonprogrammers, sticking to a cobbled together in-house standard and throwing in a couple of editors is not an

ers or Commodore to establish a DDE standard.

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The trouble arises when reading from the disk in the external drive. Quite randomly it will start claiming that there is a "Read Error on block ???" - not the same block each time. When I click on cancel it carries on as normal. The trouble is quite

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Furthermore, occasionally it refuses to load a disk saving that the disk is "NDOS". Remove and replace the disk and it runs OK. This occurs with the disks supplied with the machine as well as

duly bought another new A1200 to try, and I am sorry to say that the same thing occurred. So it would seem that there is Computing's PC880 and the A1200.

have heard of anyone else having this problem. All the disks concerned give no trouble whatever in the A1200's internal drive and I am convinced that none of the items are faulty.

I have spoken to Commodore at Milton Keynes but they stated that they had not encountered the problem and that their own brand of drives give no trouble. I would be pleased if you could

throw some light on this matter.

The simple answer is that the PC880 is not compatible with the A1200, but this is not

Power Computing's fault, it's actually down to Commodore themselves. The older Amigas had two ground wires,

one which was connected to the outer metal casing of the disk drive's connector and the other to one of the pins.

Monitor moaning? Interfaces ill? We're here to help!





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Commodore have now left one of the ground

This results in line noise occurring sometimes, which results in read/write errors. Thus not only is the PC880 not compatible with the A1200 but many other drives will display the same problem.

Power have announced a PC880 drive specifically for the AT200, so when ordering an external drive from them, be sure to state that it is for use on the A1200. How to fill that empty trap door

Unfortunately though, due to the modifications that have to be made to the drives to make them compatible, Power have said the

> The good news is that Power are making an interface for the A1200 which enables people who have purchased their new A1200 drive to read and write 1.44Mb disks, as their external A1200 disk drive is already fitted with a 1.44Mb drive unit.

Power Patch

I have a problem with last month's Pl manually, but if entered in startup-Workbench 1.3, and I have a second disk drive and 1Mb Supra SOORX. I have tried Kickstart 2 but this gave the same

I hope this is fixable, as I'd like to be able to use this program with DPaint, and send the guy some money

John Gray, London

Unfortunately we don't have an Amiga 1000 to test your problem on, but if the program runs when called from CLI and calls PP in a different place in your startup-

No sound

I've bought a new Amiga A600 computer need a monitor, so I thought fine. When I sound didn't work. I tried undoing the plugs, wires and turned off all the switches, then I started all over again, No matter how many times I tried this the results were still the same. Still no sound.

So the first thing I would like to ask is what can I do to make the sound work? Also I was told by a friend that a monitor would be better than using the television. I want to know is this true? I would be very much appreciate it if you could help

P Bohia, Middlesey

On the back of Amiaas with built-in TV modulators there is small black switch next to the connector for the TV cable. This switch is the problem - simply switch it to the other position and you should get sound through your TV. The switch is used to select what frequency the sound is broadcast on.

over TVs. This is due to the fact that before a puter, the image must be turned into a sig-

from your computer is already in a format which the monitor can understand, so there is less loss of quality and you get a far superior picture.

Copyright In the first place I would like to make a

compliment to your famous magazine which I am a proud reader of and buy every month. I can say your magazine is CoverDisks are really great! The articles in the magazine are very informative on all Amiga subjects, such as

If you wish to print in colour then it's a bit more difficult to recommend a model but you might like to take a look at th Citizen Swift 240C or the Star LC24 200C, both of which are 24

Technical Help

the new CD-ROM drive, and your game reviews are very nice to read. Anyway keep on making this great magazine for the big group of Amiga users all over the world which I am one of.

But now let's go to my own problem. I have an idea to write a sound-designer in Amos Basic such as OctaMED-Prof or SoundTracker, but I don't now how to start it. I have tried to make a startup screen but that's where the line ends. Also I don't know if I will get any problems with copyright problems with so many programs

already existing. Please can you help me with this big problem because I'm completely closed in. Also can you tell me if I should write this in C? I hope to hear soon what the answer is for my problem and send greetings to everyone on the magazine.

Theo Wiersma, Holland

On the copyright situation, as long as your program doesn't look too much like a prothe AS90 hard drive with 1Mb upgrade. gram which already exists and you haven't just taken their code and altered it slightly then you will be OK

Now down to which programming language to use. By the sound of it you already I then re-prepped and re-formatted it know how to use Amos so I would stick to and reloaded the back-up information Amos - and with the D-Sam commands which we gave away on the CoverDisk in February's

OctaMED player First of all, congratulations on a great mag.

Secondly, I am having trouble using songs that I make on OctaMED. You see I am trying to put a song in the startup-sequence using the command "Octamedplayer name", ie name=song title. Everything goes all right, that is the

Workbench screen comes up and the song plays. However a message appears saying "CTRL-C to continue"

The trouble is that I want the music to keep playing through whatever comes next in the startup-sequence ie pictures and the like. However, nothing else will happen until you press Ctrl-C, which stops the

music

I have tried the songs on other music players with no reward. There is a lot of info on the disk, such as Read Me files, but they seem only to be talking to people with Can you please tell me how to do this as

OctaMED is a brilliant program for musos like myself and it would be a shame to go back to non muso-friendly progs to get a bit of music on your demos. S McKenna, N Ireland

The problem is that when you call up OctaMED it is not returning back to your startup-sequence until it has finished playing your tune, so the answer is to tell OctaMED to start running and then return control back to your startup-sequence.

run >nil: <nil: Octamedolaser songmans



NDOS hard disk

I am having problems with my AS90 hard drive. My setup is an A500 1.3, 1/2Mb trapdoor upgrade, extra external drive, Citizen 224 colour printer, and of course

By accident one day, I started to initialise my A590. Upon realising my error I did a soft reset. This didn't do much for my hard drive, I can tell you.

back onto it, and it worked for a while, but now when I use the hard drive all I get is a message saying that it is not a DOS disk. As there are no other disks in any other drives it has to mean the hard drive. I have tried to re-prep and re-format

again but to no avail. I would be very grateful if you could help me out in any possible way. Thanks for all your help and also a great magazine. G Mitchell. Queen's Own Hussars

It sounds like you have quite a serious problem. Your best bet is to get hold of a PD disk containing some hard drive utilities, and do a check on your hard drive to see if has been irreparably damaged or whether there is just a damaged sector. There are plenty of companies in this

mag which will be able to supply the software you require. It may be that you might have a virus which is causing the problem if so don't panic - with the aid of a good virus killer you will be able to get the hard drive to work again if that is the case.

Faster

I am interested in buying a hard drive for my A500 and I read with interest your supple ment to the December issue. As I am a relatively new Amiga owner (ten months to be exact), I am lost in the minefield of Amiga

I would like to add an accelerator board as well, having seen Microprose Grand Prix on a friend's A1200 (amazingl), and would dearly like my Amiga to handle the graphics as smoothly as that.

I understand I can get a combo drive from GVP, with both of these add-ons in it, but this is going beyond my small budget (I'm only a student!) by some margin. I read about SIMM chips for extra RAM, and blitter chips for god knows what, and I'm completely bewildered to say the least.

What is the difference between chip and fast RAM, as my A1200 friend said I'd need more chip RAM to make graphics smoother? On to the matter of the accelerator, how fast would it need to be to make things faster? I use Vista quite a lot, and I am endlessly fed up of waiting an hour to get a half decent picure.

I understand that the A1200 runs at about 14MHz, whereas the Amiga 500 runs at

Muddy pictures

7.14MHz. I have been advised to buy the A1200, but as I'm only a leisure user, with no need for 32-bit graphics or sound, this seems a waste of time, not to mention money What do you recommend I do? Please

help a very ailing Amiga user to become a little more wise, and have a better computer. Lee Taylor, York

First of all I hate to correct you but the A1200 doesn't have 32-bit graphics or sound, in fact it has 32-bit processing and 24-bit graphics and only the same sound as before.

Now with that out of the way the GVP is indead the best hard drive combo around, but at about £679 for an 80Mb drive and a 40MHz processor it is certainly not cheap. Personally I would sell your existing ASOO

and then buy the A1200 with say a 60Mb hard drive and also the Microbotics memory/co-pro cessor card. All of this will cost around £670 if You will then have a machine which will run

considerably faster then your old one and have the added bonus of far superior graphics. Even though the cost is virtually the same either way it is better to spend the money on a new machine rather than trying to fix up an old one.

Incorrect diagram

• There was an error in January's ACAS pages concerning the memory switching diagram. Contrary to what is shown on the diagram, there should be no connection between track 4 and the switch. The correct version is printed below. If you followed the printed instructions carefully there

should have been no problem, as it was only the diagram that

was incorrect. Attempting the alteration following the incor-

Obviously when Amiga Computing prints tips from readers which other readers decide to undertake then this is done so on the readers own responsibility.



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Protext power-up

quiet confident with Protext opefully by now you will be and feel able to go on to some of the more advanced features Protext has

Over the last two issues of Amiga Computing we have showed you how to create and manipulate your documents edit documents, work with more than one document at a time and also how to spell

check documents. In this issue we will explain how to use the Print option and how to take advantage of the command line option in

Printing documents

Once you have spell checked your document, it is time to print it. Before going any further, make sure that you have your printer switched on and on-line. Select the Print Text... option in the Print menu and the printing dialogue box will be displayed.

The printing options available in the dialogue box may seem quite complex initially, as there are many boxes, but in many cases the default settings are all right. If you have already printed something, the previous settings are retained and become new defaults.

The current printer driver is displayed at the top of the dialogue box. If you use more than one printer and see that the wrong driver is selected you should use the cancel box and load the correct printer driver with the Load Printer Driver

There are three Destination boxes and these determine where the output is sent. Each of the boxes is exclusive, so clicking

Learn how to master Protext through its powerful command language in this final part of our tutorial



Protext's Involve makes creating Documents on easy test

on one box will de-select whichever was previously selected. The Printer box is highlighted by default, Selecting Screen will select output to

he sent to the screen. As far as nossible the document will be displayed as it will appear on paper, although not all printereffects can be displayed on-screen

If the File option is selected the cursor will automatically move across to the Filename box for you to enter the name which you want to use to save it by.

When this option is selected everything is sent to the file as it would be to the printer. The file may then be printed at any time without the need to load Protext by outputting it to the printer. Note that printing to file does not produce plain Ascii text files. If you wish to create a plain Ascii file, use the Ascii Save option in the File menu.

Highlighted The second line of boxes covers

Options. Either Single Sheet or Continuous will be highlighted and. again, these are mutually exclusive. Selecting one will turn off the other.

The third box, NLO, may be used with dot matrix printers to set them into "Near Letter Quality" mode and is also used with some laser printer drivers to select a

different paper tray.

The third line. Which pages?, also contains three exclusive boxes, with All being the default. Odd and Even refer to whether the pages to be printed will be (or would be, if page numbers are not being printed on pages) even or odd

This is useful when you want to print on both sides of paper as you can select Odd and print the document. Only odd numbered pages will be printed. Replace the paper the other way up, select Even and print the document again to print the even numbered pages on the reverse of the paper.

The fourth line, Number of Copies, is self-explanatory, but is useful in that you only need to use the print command once and can get on with something else (assuming background printing is selected - this may be toggled on in the Option menu) while several copies are printed.

In the lower right corner of the dialoque box are two boxes. Start at Page and End at Page. These are used if you want to print only a number of pages. but default to page 1 to last.

When you have chosen the various settings you want to use, all you need to do is click on the Go box.

Parts of a document can also be printed by marking the block you want to print, then selecting the Print Block option in the Print menu. The print dialogue box settings should then be set, as

As well as printing the current document, it is possible to print an existing document file without loading it into Protext. Select the Print a File option and the file selector will appear for you to select the file to print. Once selected the





Tutorial

print dialogue box will appear, as usual. Background printing allows you to get on with further editing, while the document is being printed, after a brief delay while Protext fills its printer buffer. This can save a lot of time when long documents are being printed.

The Print menu has an Abandon Printing option which may be used irrespective of whether background printing is being used, but it also has two further Printing, which are only available if the printer huffer is in use and contains text to be printed

Telephone

These are useful when you want to pause printing, perhaps to take a telephone call, and continue afterwards.

Note that you should not exit Protext while background printing is in operation.

If you do, background printing will cease. The best way to understand the different printing methods is to load a suitable document and experiment with the different settings. If you don't want to waste paper, select the Screen option.

Making macros

A macro is a sequence of key presses which can be stored and used at any time with a single key press. The keys used to recall macros are A to Z on the main keyboard when used in conjunction with the Alt key and the special function keys on their own and in conjunction with the Shift. Ctrl and Alt keys.

The main advantage of macros is that if you perform a sequence of events on a regular basis you can program a macro to do the same job with only two key

Making and using macros may sound the hang of it. A macro is rather like a video recording - you press record to record events which happen and then you play them back.

With the macro maker you also press the record button but this time it records which keys you press, and when you have recorded your macro you just press the



No need trying to remember those tricky keyboard commands for special charectors

key you have assigned your macro too. To start to record a macro all you have

to do is press Ctrl-F1 followed by the key you wish to save the macro under ie Alt-A. command mode. Once you have

started the record mode you then simple press the keys you wish recording you press the Ctrl-F1 Once you have

with long recorded your macros you can then save them documents. to disk so that you can use them as many times as you like. When Protext loads it will always look for a file containing prede-

automatically loaded. To save your macros once you've created them you enter the command mode

type SVK. This will then display the message SaveKeys filename: followed by a flashing cursor. Simply type in the path to where you

wish to save to and the name of the file which must be "Protext.Key", ie:

You must also save this file to the disk

which you load Protext from - this can be your hard drive or the floppy you load

When you save a macro what you are really doing is saving all the macros you cannot save just a Background single macro and then load it up when

you want. printing can You must define all the macros you think save a lot of time you will need then save them as one file, then every time you load Protext it will

> If at a later stage you decide to add extra macros then all you do is load Protext which will automatically load your macros and then enter the macro record mode as already explained, and then just record your new macro.

You can also change an existing macro by following the same steps as adding a macro but when you type in the key you wish to save the macro under simply add the existing key you wish to change.

When you have added new macros or changed existing ones you must save them out again as Protext.key in the same

Recording macros

Now you have an idea how to create macros and save them we will try making a macro as an exercise.

Artivate the record mode by pressing Ctrl-F1 Then press the key combiunder say Alt-A.

Now press the buttons you wish to record, first press the Esc key then type:

and press Return. Now to end the record mode press Ctrl-F1 What you have just done is to cre-

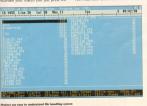
ate a macro to save your current document under the name of Demo on your internal drive. To activate this you simple press Alt-A and the macro work and time of typing in the

Assignable kevs

You can assign macros to 94 key combinations these are as follows:

> Shift + F1-F10 Alt + F1-F10 AN + A.7 Shift+Alt + A-Z

Even though you can assign 94 many as every macro you assign takes you are restricted already by your machines memory assigning to many macro will shorten the amount of text you can fit into a document.



Directory Protext_4.3_Cover0isk:

Using the Command mode for extra speed

As you have already learned, Protext can be controlled from pull down menus, but if you dislike having to pull down large menus and then trying to find the ontion you require, you can use the command line

The command line is a way of giving Protext commands to carry out without having to use the pull down menus. Using this method of controlling can be a lot faster than the menus in Protext.

To use the Command Line you must first call it up. To do this you press the Esc key, when you will be presented with a window opening up in the lower half of the screen. This is the command line window. Once you are in the

Command Line mode you will be presented with a flash. ing cursor. This is where you type in your commands Some of the commands which you can use can be abbreviated to save you time typing them in eq if you wanted to save a file called Demo then you would type in:

e dann

This will now save the file called demo to your current drive, but if you wanted to save the document to say you external drive then you would type

s df1- demo

as you can see the commands themselves are quite small. Hopefully by now you will be quite familiar with Protext and confident enough to use it to its full potential. Unfortunately we don't have enough space to provide you with all the features Protext has to offer, but you will certainly have enough to be able to use Protext confidently. Arnor, the company who produce Protext have now released vS.5 which has several new and improved fea-

tures. You can contact them on 0733 68909

Command Line commands

Access (ACC) Acc <filename> Access is used to change a file back to read-write status after it has been

Copy <sourcename> (destination) This will copy the document called

This command will count the number of

Dir (DR:) Dir performs a directory listing of the specified directory so if you only typed dr it would just list the current directory.

Erase (del) Erase or del deletes the specified file from the specified directory.

Find (F) Find <string><options> Find will search for a string of text in a

Format (FT) This command will re-format the entire document according to the margins. rulers, tabs and stored commands within

Goto (G) G (option) coumbers Goto moves the editing cursor to the spec-

ified line, column or page in the text. The number should be prefixed by the letter P for page, L for line or C for column.

Help (h) or F1 Help is used to display a list of the subheadings in which the commands are selected and then the relevant help will be

Load (L) L cfilename> When using the load command you don't have to name the directory to load from if

displayed.

current directory But if you wish to load a file from a different directory then you must specify

where the file is in L df1-domo

Merge (M) M <filename> This is similar to load but whereas load clears any existing text from memory and then loads the file in, Merge inserts the

rent cursor position. Note that care should be taken to make before trying to merge two files.

Name (N) N <filename> Name renames the current file you are

Print (P) P (num) Print prints out the current document you are working on, you can specify how many

of copies after the letter P. Protect (prot) Prot <filename> Protect turns files into "read-only" files. Files which are protected cannot be overwritten by saving or corving a file of the need to use the Access command

This command quits you out of Protext, If

you still have a document open. Protext it will warn you to save the document first.

Replace (RB) Replace <find string><replace-string> Replace searches for certain words which you want replacing and then replaces them with the words you want instead.

Save (S) S -filename> Save saves the current file under the name you have given it. if you try to save without giving the current file a name then Protext will prompt you for one. You can

also tell Protext where to save your docu-Spell (SC) S <filename> Spell checks the named file. If no filename is given the current text is checked

ment ie S.df1:demo.

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The three images above were drawn by yours truly and served as EP\$ files for printing in the magazine, ample testament to AE's ease of use and quality autous

job to which most microcomputers have always been put is that of illustration, and whether it be in the form of bitmap pictures. scanned images, or CAD, adding a little artwork has for long been one of the primary uses for the Amiga.

As the years have passed, packages designed with Amiga art in mind have expanded their range of capabilities, doubled or tripled in sophistication, and leaped forward in power.

The unfortunate spin-off from all this development has been that some packages have become decidedly over-produced and have lost the ease of use which is supposed to characterise any modern micro, never mind the Amiga.

SoftLogik's Art Expression reverses this trend by offering what is one of the most intuitive and comfortable interfaces I've yet. seen in a drawing package. When using computer calculations to

Macro omission

When there are some jobs which demand to be done over and over again in daily use, such as scaling an object to 50 per cent size, or aligning something centrally with a second object, a keyboard short-cut would be

However, programmers can't cater for all tastes, so most will include some sort of macro capability by which the user can create a macro to do what he or she wishes, and attach it to a function key for use at any

Disappointingly, AE has no macro facility, not even the write-it-yourself ARexx type favoured by some companies. Ideally, an auto-recording macro generator would have given the package an extra few points in the easeof-use stakes, but the designers have decided to leave them out altogether, despite the fact that the program's biggest rival, ProDraw 3.0, has 300 ARexx commands and a set of ready made Genie marros

describe a curve rather than penning it with a sweeping freehand stroke, or trying desperately to add originality to an obviously computer-generated design, the quality of the user interface is of prime importance.

Let an art program get in the way of the artist or draughtsman once too often and. regardless of the package's power, it becomes a liability and an obstacle to the creative process rather than an aid

Art Expression utilises an interface which will be immediately familiar to any user of PageStream, SoftLogik's flagship DTP package, and as a result the learning curve for those people will be smooth and easy. For first-time artists or those converting from other packages, however, the process shouldn't be much more painful.

Short-cuts

In common with PageStream, Art Expression offers the user a selection of keyboard short-cuts of the kind you can suss out without reference to the manual.

For example, when rotating an object, the temptation would be to press the r key just in case this is the rotation short-cut. Hev presto, it works, as does g for group, m for merge, b for blend, and so on. Additional standard short-cuts such as

Amiga-A to select all objects, and Amiga-V to paste down the clipboard contents lend the whole program an easy-going, friendly air which invites the user to get down to the real work of designing graphics rather than struggling with the interface. It is an approach which continues when the work begins.

On kicking up. Art Expression (AE) sports the same page layout as its DTP stablemate with rulers top and left and a floating tool box to the right.

The term "floating", for those who haven't encountered it before, means the tools can be moved to any part of the screen, making left-hand use of the mouse easier, or enabling the tools to be hidden

The tool icons themselves are well designed and, unlike the weird and wonderful icons used by some DTP and art packages, immediately suggest their functions There are as many tools as needed and no more. SoftLogik's programmers having resisted the temptation to stuff the screen with a confusing plethora

make the nackage look more sophisticated AE's menus follow the same simple and

elegant rules by keeping text, object, and effects menus separate. As one would expect, some of the menus can be lengthy, but at no point is the user presented with the huge and unwieldy lists of options to which so many software houses

The logical grouping of features and functions makes AE's menu system easy for the first time user to navigate, though short-cuts it is unlikely that practised users will need much menu access.

Having gushed enthusiastically so far. it's fair to remind the reader that all the thought and attention to design which has so obviously gone into the user interface would serve AE little if the drawing tools available were not up to scratch. Fortunately, the program offers

real power to the artist. By concentrating on the basics and offering complete control over shape and colour, AE gives

approach to Adobe Illustrator in that it forces the user to build everything from simple objects.

create effects and original touches rather than supply the original touches in a prepackaged form. An example of this is the process whereby vignettes (gradual fades

of one colour to white or another colour) Rather than supply a vignette requester with control over start colour, finishing colour, and so on, AF follows a similar

To create a vignette, the user must therefore start with, say, a thin rectangle coloured blue and another coloured red. then blend them over as many steps as

A few of the impressive

text effects on offer





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selecting both objects, then choosing the appropriate

A requester offers several alternatives, such as left, right, and centre justified on the curve, space to fit, and scale to fit, then the text is quickly and unfussily placed

Likewise forcing text into a selected shape, such as a triangle or circle, or forcing one shape to conform to another can produce good effects quickly.

Basic object control, however, is the program's main strength, and the range and depth of the tools on offer makes the creation process a lot easier All the usual tools are there, including lock/unlock, align, duplicate, and so on.

but many more have been added to the standard recipe. Rather than offer just the usual send to

back and bring to front combination, AE also provides send backwards and bring forward so that the user may flip objects back and forward one level at a time. This is a very useful tool when a draw-

ing is made up of many individual objects. such as in the example of a car I produced using the package.

Drastic

Another feature I particularly liked was the Flatten and Smooth Path effect, Using this on any object, but particularly text, the user can drastically alter its appearance. Text in the Times Roman font suddenly looks like Balloon font when smooth path is used on it, or some sort or hieroglyphic script when flatten path turns an o Other uses include making some

shapes, such the egg, much easier to produce, a convincing example of which can be produced by simply knocking up a triangle and smoothing it.

For sizing and placing objects, the edit co-ordinates requester allows not only precise positioning according to the chosen measurement system, but also enable the user to change the selected object's width and height to specific absolute values or scale them in percentage terms When a drawing contains real-life

designs which have to be placed in proportion to each other, this facility comes into

Transform is another simple tool which can be used to impressive effect, by enabling the user to move, rotate, and scale an object over a definable number of steps, transform can probrushes from a simple line or spiralling logos from a single word of text.

Slightly more sophisti-

easels

Stevie Kennedy dons his smock and floppy hat, oils his palette, and puts brush to canvas with Art Expression, the latest Amiga drawing package

required to make a smooth vignette (about 100), merge the resulting objects. To use this to make text with a vignette

(or gradient) fill, the user must create a "mask" by typing some white text and merging it with a black object, thus punching text-shaped holes in the object can be seen. Once positioned correctly, the mask has

merged with the vignette object to give the impression of text with, say, a red to yellow fill colour on a white background. Sounds complicated, doesn't it? The

approach, whereby the program attempts to make things easy without making them simple appears at first to be a matter of simple way to create vignettes or text with unusual fills? The answer is that there are countless

uses to which an art package may be put, and had the programmers attempted to supply specific tools for even a few of Rather than tread this path. SoftLogik

have followed the example of most profes-

signal illustrator packages by supplying the basic tools in their most usable form and leaving the rest up to the user's imagination and talent. In effect, there is very little which the

user will not be able to do with AE, but some of the more geometric effects, such as text on a curve, and forcing text or objects into other shapes, are provided because to recreate these tools manually would be extremely difficult and time-

Text on a curve is achievable by simply typing the required text, drawing a curve,



Whither Hotlinks?

Soft only was the publishing house which lead the way in Amiga dynamic data exchange when it released the HotLinks system last year and strove to have it accepted by other software publishers

Why then, just as some have taken the standard on board, have SoftLogik released a major drawing package

The omission of HotLinks support means that there is still no way to edit structured clip art in a DDE environment other than the clumsy ProPage to ProDraw Genie

As Art Expression is made for illustration and DTP work, it is difficult to imagine what reason the parent company had for not ensuring it would work directly

with PageStream through the HotLinks system. BME, the HotLinks program, supplied with Art Expresssion, acts as fast and effective auto-trace add-on for use with Art Expression, but will not load and edit

> cated, but just as easy to use, is the path to nath effect, which is especially useful for starbursts and flashes. By drawing a circle and a triangle, then selecting both for path to nath, the user can tell AE to repeatedly place the triangle on the circle path.

The result is a more or less perfect flash Using fewer repetitions to create gaps on the path, then filling these with longer, thinner triangles, the user can build up a

The essential feature of this sort of work is AE's powerful manipulation of basic objects. All objects can be treated as paths, rotated, merged, blended, or grouped as

With such comprehensive coverage of the most important aspects of drawing. AE manages to combine flexibility with power

and sophistication with ease of use As a drawing package, therefore, Art Expression pulls off the tricky feat of coming between the artist and the finished product while making that finished product easier and smoother to produce. This

should put the package high on any budding Amiga artist's shopping

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PD and Shareware

f an art form doesn't progress, it dies and applying it to the public sector proves just how true an adage it is.

As half-baked cheap techno demos thin out and spinning vectors grind to a halt. so we see truly impressive animations surfacing from the computer-code quagmire. original applications replacing cut-down demonstrations.

Don't get me wrong, the quality of public domain stuff hasn't rocketed overnight, but among the usual average-*ness are an increasing nummber of gems about So without further ado...

Business Card Maker

Power PD, VO06

Business before pleasure, so off we go with a novel application designed to help you make your own business cards. It opens with a blank "card" on the screen,

and four discrete menus at the top First you must install printer and drive information. The program seems to be fairly old, and as such there is no support for bubbleiets - an unfortunate omission, considering that they seem to offer by far

Business cond one o sinsidic with Ruciners Cord Moker

A highly varied selection of free or very cheap software comes under the magnifying glass as Phil Morse

month's bumper hundle

investigates this PITRITIC



GCSE Maths 1 is bright and informative

cards on a budget, but I'm sure the industrious could get around this somehow.

You begin by choosing an icon for the top left-hand corner of the card - there is given a wide choice of icons on disk, you can use your own, and there is an elementary but adequate built-in drawing

program to help Text can be typed in using a number of fonts supplied, which although basic, cover a multitude of applications, and text once entered can be dragged into

Printing must be in multiples of two, as cards are printed two across the page for there are draft and NLQ (near-letter quality) modes too.

It's a simple and limited package, but easy to use and well presented, and a lot of very useful business cards could be generated with the range of icons and fonts supplied.

We open this month's anims, demos and artwork section with a trio of truly excellent animations from the talented Roddy McMillan. Like his contemporary Schwartz, he understands fully

that the best computer effects in the world are going to bore before they've even begun unless they're actually used for some purpose - in this case, a pile of silly stories lovingly acted out by some truly wonderful characters First up is Duncan the Dung Beetle (Virus Free PD), a

cartoon story documenting Duncan's attempts to eat a It's very nicely animated, with some great facial expressions and over-emphasised movements matching the best

Next is my personal favourite, Lemmin's Revenge (Virus Free PD). You've got to be wary of any animation which actually apologises for the number of impending disk swaps on its opening screen, and I was close to giving up at one point, but one broken disk drive eject/insert mechanism later, and you're seeing a screen of Lemmings (oops, I mean Lemmins) like you've never seen them before As they drop out of the hatch, thrill at the incredible







cartoon animation, love the flowing locks bouncing on the Lemmins' necks as they walk, gasp as the baddle plane downs a few of them, cackle as some wicked icons are selected to wreak the ultimate revenge on a nasty aggres



GCSF Maths 1

Willow PD. BUO31

Written by a qualified GCSF and A-level mathematics teacher, this program adopts a multimedia-style approach (using often sticky subject matter in as pupilfriendly and painless a way as possible.

The first in a planned series. Maths 1 Topics covered range from magic squares to square numbers, temperature to tables, and well-written and presented information is coupled with exercises and their answers - on different pages, of course.

It's a neat concise easy to use and understand, and above all an attractive program which to my mind fulfils its aims and more besides.

As a bonus, there's a calculator included which puts to shame any computer calculator I've seen so far. Apart



that'd put many to shame...



Blackythms - work out if it's worth getting out of bed

from looking the part, it's got scientific functions a go-go, and using one of a small number of selectable menu options. it can even plot graphs, which you then have the option to print. I think you'd struggle to get it into the exam hall with you, though!

Biorhythms

Power PD. V068 Not a trendy yogurt, plant food or

hygiene problem, a biorhythm is actually - so it is claimed - a plottable curve based upon your date of birth which can tell you respectively the state of your physical, emotional and intellectual life

Based upon what is actually an age-old Fastern philosophers' idea - that everything runs in circles and cycles, as opposed to the strictly linear model adopted by Western civilisations biorhythms and their ilk (astrology, palmistry, faith healing) are currently enjoying a boom as a New Ane challenges the scientific paradigms of the 20th century.

Believe in them or not, this program's gonna' plot them for you! Enter your vital statistics and the current date and hey prestol, a neat graph, which you may print if you wish, telling your where your head's at.

You can even enter important dates such as your holidays - to see if you're going to sail through life as you sail through the Bahamas, or whether your head will be in as many bits as your supposedly finished "hotel" when you arrive at a coastal building site in Malaga...

Whether you're prepared to buy all of a larf, if nothing else.

Disk Repair

Power PD. VO46

A favourite guise of PD libraries is to put a load of useful and similar programs on one disk, slap a nice menu and interface joining the lot, and put it out under a name such as... well in this case. Disk Repair Kit.

You get the ever-popular Powerpacker and the Titan Crunch archivers: Last Hope, which is a damaged file/disk recovery program; the disk back-up utility X-Copy 3: the well-used Text Engine editor: the highly useful and widely commended Utilimaster directory manager: and Fix Disk/Saddam, two virus checkers,

As far as the last items are concerned. virus checkers are of little use unless they are kept constantly updated, but allowing for this proviso, this is an essential set of tools for the serious user.

You may never use them all, but at this price, are you complaining? Just rememher to avoid complarency and keen those virus checkers updated!

PageStream v2.2 demo

George Thompson Services (2 disks)

A save-disabled and printout-branded version of the respected Amiga DTP package in its latest version, this is available from a company who are also an official user group for Softlogik (the software house

responsible for PageStream). This means that they provide telephone support for users - although don't pester >

sor... The animation is incredible, the imagination highly inventive, and the tribute to the original a truly worthy one. And does our star kill the baddle and get the girl? 'Cause he does. An absolute essential for Lemmin(q)s and animation fans alike

Finally from Roddy comes Knighty Knight (Virus Free PD) whose appalling title hides a rather atmospheric medieval demo - a revenge tale involving dragons, a princess and a brave armoured hero, called, er, Norman,

Although not quite as original as the other two, this resplendent in all of these stories - billowing smoke, tears looking for his armour as his trusty stead munches some grass disinterested is particularly fresh and imaginative.

How do you follow such quality? With mass destruction, that's how. Thunderbirds are Gone (17 8it, 2333A/8) sees an ill-considered radio message spelling total, termi-

You know what's gonna' happen from the start, the coding is not particularly imaginative or original, but it



Medieval Japery abounds in Knighty Knight

made us laugh, and should you have a perverse streak too Monoxide (17 Bit. 2343) is one of the old-style "let's show off what we can do" demos (you know, "here's a 255-sided octapolyboringon spinning on two axes...") but is saved by the opening effect (interesting), the "plasma" (madcap) and the music (Belgian techno) - although all three are dated.

Finally, Carl Inc's Boat Anim (17 Bit. 2346) follows on from the same person's Crimbo animation featured last month, but this time the 2D kiddle's book-type static image contains a new set of moving parts, such as the couple chasing each other naked in the bedroom (ooo-er), the chimney sweeps doing his stuff (lummoxf) and other innuendo-ridden and plain silly tomfoolery. If the Christmas one amused you, this will too.

And there we end this month's offerings. Send your work to me and you too could win recognition from the only column to be seen in.



PD and Shareware



 ★ them three times a day about margin indenting if you haven't upgraded to the real package yet!

After an inordinate amount of disk swapping, you're presented with a very attractive-looking DTP package.

It offers an outstanding array of features, both textual and graphical. There's comprehensive printer support, half a dozen useful, scalable fonts, countless menu options covering all sorts of eventualities and options - in short, it's got the lot

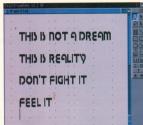
Play with this demo for long enough and - so someone, somewhere is gambling - you'll upgrade to the real thing.

Hugo Bus Ston PD (3 disks)

Opening rather disconcertingly in a Scandinavian language, the "insert disk" prompts are easy enough to translate (just as well with this number of disks!). and you'll soon find yourself selecting whether you wish to play the arcade or the TV version, and which method of

control you'd prefer to use. After Hugo spouts a load of absolutely unintelligible blurb, you enter a beautifully drawn underground mining operation, which you have to do something with involving dynamite and mining trains... I think

See the truth is, I couldn't make head nor tail of the aim of this game, even though the supplied ReadMe assured me that it was totally self explanatory. It's



The sky is the limit with the power of PageStream

definitely got something to do with working out the layout of the tunnels, but the large number of disk swaps required and the Nordic gobbledygook meant that my nationce ran out before what to do had sunk in.

However, it certainly looks very nice, and the controls feel good, so if you fancy a challenge, find out what's going down in Hugo's mines... and let me know when you do!

Family History Database Déià Vu. L/08

Written in Amos and presented in a strangely familiar, business-like blue-andgrey colour scheme, Family History Database - I'm presuming its title is selfexplanatory - is quite neatly supplied in

The reason for this is to leave as much memory free for handling data as

modules.

possible, and thus to prevent those for whom memory is a little tight from encountering as many memory difficulties

You actually store the information on your family and history on a separate data disk which you provide yourself, and you can display this information in a number

of ways. You can print ancestor charts (even blank ones, so all of your friends can take one home to fill in too!), male and female ancestor lines, reports on family groups... there's even a facility to allow you to search for specific surnames. should you have that large a family tree

that they don't spring immediately to Should you feel a pressing need to fill vourself in on exactly where you came

from. you will find FHD extremely useful. It could even be of use to novelists or TV soap writers, to avoid inconsistencies in age-old family references in their books/TV programmes. It's another original idea, and well executed, too

Got any good PD?

If you're a library, a program mer, a dosser - I care not, for I judge people purely by the quality of the PD they send me. So why not get those Jiffy bags out, get those drives a-copying and lob the lot in the post to me, Phil Morro at-

> PD Suhmissions Amina Computing Europa House Adlington Park Macclesfield SV10 AND

Particularly in demand at the moment (and so more likely to be reviewed) are music demos, good games and original applications, so if you've any of these you wish to publicise, you know where to send 'em. Remember, the world is listening...

Contact...

Bus Stop PD - 5 Westbourne Road. Marsh, Huddersfield HD1 4LQ Déià Vu - 7 Hollinbrook, Beech Hill, Wigan WN6 75G

George Thompson Services -Cucumber Hall Farm, Cucumber Lane, Essendon AL9 6IB Tel: 0707 Power PD - 34 Bishops Walk.

Llandaff, Cardiff CF5 2HD Roddy Mcmillan - 18 Arras Close, 17 Bit - 1st Floor Offices, 2/8 Market Street, Wakefield WF1 1DH Tel: 0924

366982

Virus Free PD - 31 Faringdon Road, Willow PD - 2 Longbridge Close,

Sheffield-on-Loddon, Basingstoke RG27 0DO

Public domain or shareware?

What we call the public sector can roughly be divided into two types of software - PD, or public domain, and shareware.

PD software is totally free from any copyright or charges. You simply select what you want, send off for it, and for the price of a disk plus a small charge imposed by the library to cover costs and so on, you get the program

You can them copy it, pass it on to your friends (this is, in fact, positively encouraged) - basically, spread it

Conversely, if you've written anything you'd like releasing as PD, you can simply send it to the libraries and presuming they decide to put it on their books, it will be copied for all who want it.

Shareware is similar, except you are asked to pay a registration fee should you find the program useful. For this fee - rarely more than £10 and often £5 or lower you'll more than likely get a better version of the program, information on future upgrades, a manual and/or extra stuff from the programmer

As these programs are normally of a reasonable quality, it is in everyone's interest that you register - should you not, it's that little bit more likely that the programmer will become disillusioned and fall to produce any more programs.

So the message is simple - pay up when asked to, and the whole brilliant concept of shareware will continue to go from strength to strength!

Some PD libraries are still advertising OctaMED v3 when it is, in fact, a copyrighted program, making this action

illegal.

Apart from v1 and the nonsave v4, OctaMED is only
available from Amiganuts at
169 Dale Valley Road,
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Anyone else offering this program is breaking the law.



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And one will go to each of the ten readers whose correct entries are first out of the hat. To enter just fill in the form below. answer the simple question and send it to Amiga Computing Miracle Competition, Europress Direct, P O Box 2. Ellesmere Port. South Wirra L65 3EA. before March 31, Good luck all you budding planists! The Miracle keyboard checks every note you

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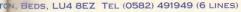
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lmost all the top Amiga wordprocessors have been upgraded recently, and Micro-Systems Software has decided that excellencel

A fair number of new features have been added to v3.00, the most noticeable being a more modern-looking user interface, and support for 16 colour screens and Anfa Compugraphic fonts.

The new version comes on three disks. None of these is a Workbench disk, so you are required to boot from your own copy of Workbench. No special setting up is needed apart from installing the few supplied fonts on to your boot (Workbench) disk, achieved by double clicking an InstallFonts icon, and this is only necessary if you intend to use a PostScript printer.

So it's boot from Workbench, in with the excellencel disk double click its icon, and after a short delay while the program loads, you are presented with a pleasant looking screen with an open document ready for you to type into.

Preferences

Initially the program loads on an eightcolour hi-res screen, but this can be altered from the Preferences requester. You have the choice of 2, 4, 8 or 16 colours: a Display Configuration section lets you choose screen modes from hi-res, hi-res interlaced. Productivity or A2024. Screen colours can be changed to suit. Including the colours

used for window borders and details. Changes made in Preferences and then Saved are not recognised unless all documents are closed when you make the changes, or until you guit and restart the program. Only one set of preferences can be saved, and the settings in this file are used on startup.

For its screen display excellencel uses

Printing posers

Excellence



The screen display can now be up to 16 colours.



The spelling checker and thesaurus are the UK versions. and both can be active at the same time

excelled?

Ben Pointer looks at the latest release of a wordprocessor which appears to offer unrivalled value for money

Workbench 2 and 3 users are able to select any font in any size, because those versions of the Amiga operating system are able to rescale fonts "on the fly", but Workbench 1.3 users are restricted to only those sizes actually on disk in the FONTS: directory. The Compugraphic type-

standard Amiga bitmap fonts.

faces supplied with Workbench 2 and 3 can also be used, and PostScript printer owners are provided with Courier, Helvetica, Times and Symbol screen fonts that will utilise the fonts of the

same name in their printers If your PostScript printer has more fonts than this and you want to use them, then the manual suggests you use the screen fonts from the Professional Page DTP package. Bit of a cop-out there!

Any IFF-ILBM graphic up to Extra-HalfBrite mode can be loaded. All graphics are remapped to the palette and the number of colours in which excellencel is currently working, which results is some psychedelic-looking pictures if the colours in the graphic are very different from excel-

Although the program reads the graphic's palette, it cannot adjust its own

lencel's palette.



The are no preset more sizes to chaose from to If you want AS you need to know the paper size in inches or contimetres.

palette to something closer to the colours in the original picture, it simply picks the closest colours in its existing palette You can fiddle with colours until the cows come home, but at the end of the day you are only going to get good results if the palettes of the graphics you import

match excellencel's palette. And although the colour scheme gets saved with the document, if you alter excellencel's palette and import a document that has a different colour scheme, the colours in that document will get remapped to the new excellencel palette More psychedelia. The saving grace is the

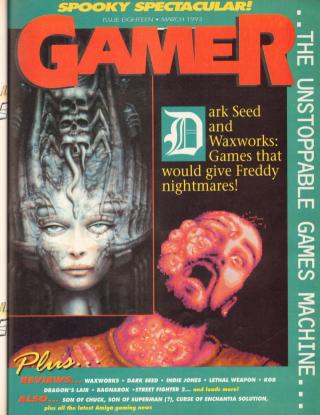
price. Even with the colour and printing frustrations, at under £40 it has to be a bargain

It may not be good enough for high quality output work, but for bashing out going to be printed using just the one printer font (plus italics, bold, underline, of course), excellencel is certainly competent and less than half the price of rival packages.











What a hippy diddly crazy world

The bitch is back!

is listedly shaded as walled in February. It is listedly shaded on the firm of the firm of

y soesy, where we have the film there were no proper weapons, whereas in the game be second is that in the film there were no proper weapons, whereas in the game y is tooled up to the max with flame-throwers, gans, grenades and err, a bottle of tuscle for wiping up those embarrassing blood stains. The already played a one-level demo and it's looking absolutely bettlers.



The atmosphere is dark and a the game is very violent, but hey those nasty aliens deserve every-thing they get, right kids? Alien fans like myself will love it

Dogs on strings

Not only are Acclaim releasing Alien 3. Megadrive conversion. The game is gues-

Not only must Krusty deal with the must have been taking dodgy

Krusty's Super Fun House is available



Guppy love!

Hey fish fans, hold on to your, err fins because Millennium are releasing James Pond 3 -Operation Starfish: Formally entitled Splash Gordon, James Pond 3 features our fishy chum once more as he battles against the evil Dr Maybe.

The dastardly Doc has set up base on the moon, which is made out of cheese. A team of rats is mining the cheese which will be sent to Earth to flood the market and throw it into

financial chaos. Dr Maybe will then rule the world! Sounds like a job for James Pond. The actual James Pond character has had a bit of a makeover and he is now more versa-

ble than ever before. Pond can now pick up items, run, jump and duck. The games programmer Chris Sorrell says that James is as least as fast as Sonic the Hedgehog In the first game James could blow bubbles, then he could stretch and hang from the

ceiling and now he can stick to almost anything thanks to a pair of gravity boots This game looks like it could become a firm favourite with the games-buying public. The with them.

James Pond 3 - Operation Starfish will be available at Easter. I'd, err, plaice your orders for it now. Sorry, bad joke, but I couldn't resist it.

Ocean do a lot of work for charidee

Yeo, lots of work for charidee, but this time they're going to talk about it. Ocean's next release is a game called Sleepwalker and it's been especially written for the forthcoming Comic Relief event, Red Nose Day 4.

Sleepwalker is a scrolling platform game done in a kind of Lemmings stylee. You play a cute dog who has the job of protecting a little night-shirt-wearing kid from danger as he wanders uncontrollably through level upon level.

The game has some wonderful backdrops, smooth parallax scrolling and is very slick indeed. The big bonus is that funny man Lenny Henry, who also does a lot for charidee, is kindly providing the sound effects. Should be stonker, or was that last time around? tr's funny, playable, addictive and the best part is that from each copy sold there is a fiver

going straight to Comic Relief. The game will come complete with a handy sponsorship form so that you can make some more dosh for the charity. Sponsored Sleepwalking sounds great!

Ocean are also organising a national challenge for Red Nose Day itself, which incidentally is on Friday March 12, 1993.

So, get your moth-eaten wallets out, buy Sleepwalker and do your bit for charidee, and then you won't have to talk about it.



Don't have a cow, man



Woody Hell



Don your combat boots

The Gulf War is over but you're still thirsting after a bit of bot war action? Well the solution is here. Combat Clasgreat military simulations in one superb value pack. The three games take you over land, sea and air. You



squadron of tanks in Team Yankee or take command of a top secret billion dollar attack sub in 688 Attack Sub. Or why not don your shades and be like Tom Cruise and fly the high-tech F15 Strike Eagle 27

When F-15 2 was reviewed in Amiga Computing we were quoted as saying that it's "without doubt one of the best flight sims around". Features of F-15 2 include six real-world locations with each area containing hundreds

Team Yankee, a now classic tank game by all accounts, featured action and strategy side by side in a definitive simulation of modern tank warfare. It featured five major scenarios and up to 25 battles plus superb high-defi-

nition bitmapped tank graphics. Finally there is 688 Attack Sub where you can act out several episodes of Voyage to the Bottom of the Sea, except the crappy monsters and Kowolski,

the guy who gets attacked every episode, are sadly not included. Attack Sub features ten different scenarios, digitised sounds of the subma-

If you fancy a bit of war gaming then Combat Classics could well be the Combat Classics will only cost you £29.99, a three for one bargain, espe-

F-15 2





(CAME)

INNER VISION

No demo disks reviewed here
IINDY AND THE FATE OF ATLANTIS
Comrade Biffski tattoos his head and joins the Cold War
COOL WORLD
SPORTS MASTERS

DARK SEED	
Wow - this is a bit scary! Ben's dream	
CREATURES	<u> </u>
Comical calamities or sick and sad? It	damn funny either way.
RAGNAROK	1

Cartoon capers anih	late gameplay shocker!
STREETFIGHTE	<u>///</u>
Come an' 'ave a go il	ryus think yer 'ard enough.

Not Tetris,	no							
LETHAL	WE	APON						
Loads of a	ction,	but no	t a trac	e of F	atsy F	(ensit's	boson	1.

Loads of action, but not a trace of Patsy	Kensit 3	DOSOIII.
CYTRON		
Six sausages and a pint mug - whatever	does Be	n mean?

Get off my barrel of rum, you one eyed

THE SOURCE	
Chuck Rock's lad, and someone	
CULAT MODE	

	nchantia expe	sed.			
SON C	DE CHEA	T M	ODF.		

BLAST FROM THE PAST.....

t's hard to imagine the atmosphere and comic strip action of the Indie films translated into the fairly slow and pedestrian confines of the graphic adventure with any success, but given that we're talking about the team responsible for Monkey Island 2, the proposition begins to seem

less absurd.

Atlantis (for so shall I abbreviate the game's unfeasibly long name) is, happily, based not on a story designed for film, but written and storyboarded from the ground up to the lurantifilm hours as consense.

graphic adventure.

Had the company decided to cash in on The Last Crusade, we would probably have been dealing with a tatty commercial spin-off (full-tide domestic flow to you and me).

Atlantis is far from this, and is in fact a

chompingly good game.

The plot, briefly, puts Indie at the heart of yet another. Nazi scam, and this time the master race is after not a radio for talking to Gott, but nuclear power – the power of

Atlants.

Well, OK, it's not really nuclear power, it's a sort of romanticised ancient energy locked up in a strange metal called orichalcum, discovered by the Atlanteans, but the principle's the same. If Indie falls, we're all

suusage-most.
The stoy begins with Herr Komer, a Nasiagent who escapes from Indie's office after a hilanous into sequence, indice, having been force-field several bindingly obvious clues just to get you started, you understand, realises that the fuction it bearway is interested in a dig he was once in charge of in cleand, which mans Kerner will be after indie's off female sidekick, Sophia, who was not the came die.

on the same dig.

Jones sets out to warn Sophia and the action begins. To begin with, Adantis has a very similar look and feel to Monkey. Island 2, with the usual bank of a dozen or so action icons to the left of the bottom half of the screen and a space to the right for whatever indie happens to be carwing. The

top half of the screen is the action window and all user input can be in the form either

unfolds in much the same way as you'd expect. There's an inibal section, after which the player has a choice of 'pasts' to follow impre on this later), then the scene changes to a variety of locations including Monte Carlo, North Africa, Crete, and Asians sue!

to a variety of locations including Monte Carlo. North Africa. Crete, and Atlants isself. At all times, the player is in no doubt as to what is happening and which way the

This is probably my only major complaint about Atlantis. There's no real mystery about the game, and even the movements of the enemy are reported at regular intervals.

In other games, there's a certain element of figuring out both what to do next and how to do it, but in Atlantis, Indie is never in

any real doubt as to his aims.

The challenge is based purely around the clever solutions the player must find to the problems which litter the well signposted both. I'm not saying the game is predictable.



Indie intrepidly watches a sinister street perfo

or boring. It's just that it of too much like reading a p than a computer novel.

than a computer novel.

The puzzles themselves are very tricky in parts and should pose enough of a problem to keep most players up at night for at least

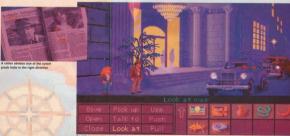
I'm completely stuck, is very sitly.

Three stone disks must be collected before the player can enter Atlantis—

Floppy hats 'n' bullwhips ahoy

INDIANA JONES AND THE FATE OF ATLANTIS

US GOLD # £37.99 # 1 meg # Mouse/keyboard/hard drive installable# Out now





Indie Intrepidly considers a spot of gentle sightseels

location (don't want to give away too much, but you'll be steered toward it anyway by the plott, Indie must position them in accordance with a diue – different every time the game is played – in Plato's Lost Dialogue.

My problem is that there are dozens and dozens of combinations, and the only one live managed to get to work after hours of messing about learly to a dead end.

The impasse, after a pretty logical and middlingly difficult set of puzzles, is irritating and off-putting, though guaranteed to lengthen the life of the game – something which is of prime concern to many graphic

The paths I mentioned earlier are the game's really innovative feature. Players complete an initial section of the game, after which it becomes clear where the plot will go, and a choice of three playing

There's the wits path, where Indie carries on alone and attempts to think his way through the game, the team path, which sees Sophia tag along as a second team member, and the action path, which involves Indie in lots of punch-ups with Germans (otherwise known as the lager lout

All subsequent events will depend on which path was chosen, and there really are radical differences between the three routes. For example, on the wits path, Indie can

ical differences between the three routes. For example, on the wits path, indie can pply walk up to M. Trottier in — Monte rio and get a stone disk off him. On the



y response three for a good kicking

team path, he must set up a seance with Sophia at which Indie and Sophia attempt to convince M Trottler of their credentals. This is far from easy, and the point at which I baled misrably.

In short, Atlantis is a very good graphic adventure which should contain enough puzzles for most seasoned fans, and last ong enough to justify the money spent on it. With its three different solution paths, superb graphics, and touches of humour, it sets a standard at which other graphic adventures must aim.

Had there been slightly more myst investigation as opposed to simple solving. I would have dressed the o

Stevie



A sentiment whih many at AC share



il drawn, very colourful, nicely animated. Need I

say more?

tunes can grate slightly ter a while, and special

As easy to play as falling off a

As easy to play as falling of log while wearing high her and drinking a bottle of gi

Very tempting for the adverture fan, though tough old verses might be disappoints.

88%



1857, 15% southing at me I

Kerner realises his plan has a fatal flaw



Oppression for the consists. Make, so make cap equanted them to make cap equanted to make cap equan

We might as well – it'll talk more sense than Boris Yeltsin

limey, this is a bit of a first, a graphic adventure based on the KGB. Normally, you get some dodgy adventure with wazards and goblins, but a game about the KGB, that's going to break some ground in the composer game.

world. Wait a minute – isn't a game about the KGB going to be really politica? Wed you'd hirk so, but it doen't tend to go inno detail about all that boring stuff. What it's really about it is identifying (guopf), minder (double guspli, chugi (hooray, em i mean guspl) and eventually a pict to out! President Gorbarber from power and return the country to the isno graph partialners.

The game takes place in Moscow and Leningrad in the days feeding up to the August putsch. Pardon? You don't know what a putsch is? Well to be perfectly honest I didn't know what it was either, but look it up in a good dictionary and it means an attempt at a political revolution or a violent uprising. VIRGIN = £29.99 = ½ meq = Mouse = Out now



I bet this guy doesn't queue up for bread

corruption.

So there you go, you learn something new every day.

You play the part of Maksim Rukov, a former GRU Captain who has been transferred to Department P. Department P. if you're wondering, was set up during the time of Peristroika and its function is to investigate possible cases of KGB

Your first mission in your new job is to investigate a vicious killing. Your involvement is required because the victim, a chap called Golitsin, is ex-KGB. Your superior officer Major Vovlov sends you to investigate the scene of the crime, and it is while you are at Golitsin's

It is while practising your famous D I Burnside interview technique that you discover the trail that Golisin was only before he died.

KGB isn't



Lift attendant in commie spy scandal

Monkey Island or Legend of Kyrandia, it's an adventure more in the style of Ween, but it's much more classy than Ween. You are given the view of a room from your eyes, but you clock use your character moving about in the

You do see other people in the room, though. For instance, while you are interviewing Goltsin's sister, you see her standing and when you tell her to sit, she sits on a chair.

She isn't animated, though, and it looks

Sear Trek. I'm sure you get a good enough idea of what I mean.

One wonderful thing about KGB is when you start taking to other characters. The text that you get to choose from is so furny that I provident sen myself glocifun, but I guite req-

ularly got stared at by other members of staff.

A sample conversation would be something like: "Have you a cigarette?", to which your colleague replies: "The unparalleled Sowlet health budget is not to be squandered on treating self-inflicting diseases, comrade!".

I know it's not meant to be funny, but no-one on earth, not even the Soviets talk like that. The graphics in KGB are pretty to he he - the wonders of modern technology

amazing. Everything's nicely detailed, especially the screens where you are talking to suspects

and superiors.

KGB is very easy to play thanks to
the mouse pointer system. It's called a smart
pointer, and whenever you place the pointer
over an object it will automatically lock on to
the best option. So if you place it over a perour it switches over to the Talk option autou

matically.

KGB is a pretty good game and very intriguing. Lovely graphics, great playability, guite addictive – that's how I'd sum it up and

intriguing. Lovely graphics, great pelyelunity, quite addictive — that's how I'd sum it up and by love I just have. If you adventure fans are looking for a bit of entertainment to while away the winter evenings, you won't go far wrong with this.

Jonathan

Superbly drawn but with very little movement.

that's your lot.

PLAYA BILLITY

Code of Options, some of them a little pointless.

Just might find itself in the cupboard before completion.

87%

Please make cheques/P.O.s payable to MICRODISK. P&P UK add 75p per game. Europe add £2.50. Elsewhere £3.50

KOR

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cean seem loathe to develop

any game that hasn't first

appeared in cinematic form – in Hawk, Bart vs Mutants, Termina-

tor 2... the list goes on and on - in fact

Cool World is only the first of three film licences to be released by Ocean in the coming weeks. It isn't such a bad idea actually, this licensing business - it removes the need

to come up with a plot, give it a title

Such tiresomeness has already been taken care of by the film producers, and

leaves the game team with nothing to

do except write a completely stonking

Should be easy. But it's not – at least, not if many of the past releases of this

haps programmers see it as an easy ride, but for whatever reason, numerous film licences – not just from Ocean I hasten to add – have turned out to be not only

disappointing conversions, but plain old

in the early new year, and although little nation has surfaced as yet, Biff tells

ure have been anything to go by. Per

classic based on the hard work of ot

and make up a few characters





OCEAN = £25.99 = 1 meg = Joystick = Out now

singer. From what we can gather, the action centres around some guy who produces a cult comic, unwittingly creating a par-allel universe, thus enabling cartoon characters – Doodles – to enter the real

Well, all right, I read it on the box, but it's a pretty safe assumption that the game closely follows the plot of the film, so that makes it OK, doesn't it? These les are characters created by Jack Deebs for his comic, and inhabit the mythical land of Cool World

What with the parallel universe and all though, the Doodles are making the tum leap from comic-strip immortal of spooky-looking vortexes that have cropped up all over the place.

The Doodles aren't quite as daft as that they don't have any wish to actual ridden melancholic monotony that is the real world (having another bad day Paul? - Ed), but simply want to "borrow" certain items from our dimension to

ike their own lives more comfortable Nothing wrong with that. Share and share alike, I was always told. But hold on! All this parallelic universal to-ing and fro-ing is upsetting the cosmic balance. If too many items are taken from our on, it's not entirely out of the tion that the whole world will sim-

Ignoring the obvious solution of ask-ing the Doodles politely not to blag anything else, Deebs enlists the help of Har ris the Policeman to counter the

and this is where the game begi The idea is to beat the dastardly Doo dles at their own game by using the same vortexes to travel through the worlds, returning purloined items to their rightful place. Beginning in the streets of Cool World, you must first collect enough coins to bribe your way through to the actual level

You are armed only with a Handy Pen, which is used both to "shoot" the Doodles and to suck them in. For those of you who think this all sounds a bit The whole point of the exercise is to

the Cool World. Obviously, the more Doodles who make the crossover, the ore objects they can take ng the Doodles with your pen

turns them into big inky blobs, which can then either be shot once more for extra points, or "sucked in" in a Ghostbuster-type fashion by keeping the Fire

When shot, it's only a matter of time ated, whereas sucking the buggers in isposes of them for good. To complete a level you must prevent

too many items making the cross-dimen-sional leap for a specified period of time, hich shortens as you progress. My instant reaction to Cool World was one of disappointment. After the excel-

lent animated sequence at the begin ning, the graphics – while colourful – seemed rather flat. The gameplay was rather repetitive and I quickly gave up. On returning to the game later in the afternoon though, I became quite involved, and dare I say it, addicted to saving the universe from its impending

More varied levels are definitely needed if the game is to reach anything close to classic status, and beefed up graphics - especially in the confrontat rtment - would have made for a

As it is, Cool World follows in the tra-dition of many previous Ocean games, in that it is a competent and enjoyab arcade platform adventure - but come on Ocean, surprise us

> VISION 9000 suppossts that the same syaph-

AUDIO 000 Yes, there's sound here all right, and yes, it isn't half bad.

PLAYABILITY No real flaws, but unfortunately it does run quite a high risk of

ADDICTION The timed levels add excite ment. Well, not excitement

exactly - but they make it better.



SPORTS MASTERS

EMPIRE # £29.99 # 1/2 meg # Keyboard/joystick/mouse # Out now

ust as many struggling recording artists decide to release sad and lacklustre remixes and "best ofs" towards the end of the year in an attempt to revive their flagging careers, so too do software companies attack the market with dire compilations of ancient games that were best forgotten.

It was a welcome change then, that when Sports Masters arrived in the offices shortly before Crimbo, boasting four great titles from months and years gone by, at least three of



Indianapolis 500

A bit of a dinosaur in terms of age, Indy 500 still knocks the spots off be customised Formula One cars around a track so elementary in

Admittedly the cars do reach speeds of 200 mph, and the number of racers and size of Speed is prominent in the game too, and from your first person perspective in the cock-

and 500 miles (that's where the name comes from, see) using keyboard, joystick, or the preferred mouse control But that isn't all that's on offer - good Lord nol You can choose to compete for one of

three teams, racing either in their pre-set machines or in your own car, which you can almost completely customise. Jump straight into a race and you'll find yourself in last place in the rolling start. whereas by qualifying you can jump up the field. Spectacular crashes or posy overtaking

manoeuvres can be replayed from a number of different angles. Indianapolis 500 is a fast, furious and fun racing sim that's well worth looking into it you missed it first time around.

Advantage Tennis

Unless players themselves, very few people in this country's

AT allows you to do just that by setting your strength lone or two handed shots required), style of play (attacking or defensive), and specialities

Once this is done vou're ready to play, either against a human opponent or the com-



and tin of Raljex. Gameplay is absolutely superb - It's in fact A1200 owners may find the speed a little too clear court. I just can't think of a major fault - you'll be hooked in minutes.

European Championship 1992

Here it is - the duffer of the pack. This Tecmo coin-op conversion might have been viewed slightly more seriously about two years ago, but with two superb footy games already on the market, on a budget label or in a compilation is really where this Elite effort



the touchline with little of the pitch visible at any one time, the teams being the particloants in last year's Euro championships with the noticeable exception of the even-

Playability isn't the problem - it's a very easy game to get to grips with - but the tack of options, absence of speed and poor quality graphics make for a game that is

Overall

PGA Tour Golf

Choose from four courses in this EA classic and compete with up to three opponents in a four-round tou against all the top US pros with the aim of achieving glory and walking away with a stonking great amount of cash

rate shots after a bit of practice.

Graphics are great and what sound there is is very convincing. PGA Tour Golf was far and







guite honest a brilliant piece of programming

writer. You got sick of the rat race lifestyle of living in the city where you were a sales executive for a multinational company, so you moved to a small town in the American south to get some peace and guite and to fulfil your

ing a book. But you wake in the morning after you first night spent in the house with an incredible headache. All through the night you were having horrible nightmares images of half-human half-marhine animals tor-

turing you Time to get some pills to get the head straight

As time goes on you realise that the house is closely linked with an alien world filled with nasties that are desperate to come and con-But they aren't going to go to all the trou-

ble of getting into spaceships and shooting people and all that sort of stuff. They have just planted the embryo for the next generation of their race in your head. In three days





Not the sort of dog you can take round the park

Everything about the game, from the stun-

tips book to the jaw-dropping graphics, was

wonderful. Obviously I was a little apprehen-

thought, not through any fault of the pro-

grammers but simply because of the nature

the sale of the game. To create the majority

Cyberdreams also had another angle on

The PC version was bound to be better. I



Cor look at all that been

it will hatch and the world will be doomed to be ruled by these sick and depraved aliens, not to mention the terrible mess it will make of your head. So now I have given you all the background on the game, what is it like? As it turns out, I was talking complete rubbish when I said that Darkseed wouldn't be as good on the Amiga as it

graphically impressive release for at least a year. The screen mode is constantly in hi-res tal clear. Darkseed is also the first game ever to contain morphing techniques.



The first screen of the Alien world formed into another. You have some lovely

clips of a doll in a box turning, for instance, When you first start playing Darkseed the

game appears to be quite small but it does take time for you to find all the different locations - they won't jump out at you

Not only have you got to find the loca-

which is very similar only a little bigger. There My favourities are the game is the interac-

tive characters. Many games claim to have This isn't the case in Darkseed - you have

to strike up a rapport with some of the inhabitants of the town to continue to make progress. They will come to you for things and you must give them something in return if you want to get what you want. As with any such adventure the main way

clues - there are plenty and most are logical

tain things that trigger events later on in the game, so there is a domino effect. It doesn't because you don't need them all but your task will be made much easier if you do. You must remember that the game is set

over three days and the way the time works are engaged in some activity it time will run almost in real time but if you are just killing time and have nothing to do on that day And remember you are dealing with a real

person so he has to sleep, but watch out for the nightmares.

click interface. By clicking the right mouse button you change what your icon on the screen looks like. To use things you have a hand icon whenever you move the cursor over anything that can be moved or operated the

I quite liked this - it doesn't leave you

guessing like normal adventure games do. The other two options allow Mike to walk around and examine things General laws and etiquette still apply - just

because you are playing a game it doesn't mean you can turn into a slob. When you get up in the morning you have to get a shower or none of the locals will give you the time of day. And if you break the law you will get banged up for the night in the local nick. I do have one or two beefs with Darkseed.

Because the screen mode is constantly in interlace the text at the bottom of the screen ing flicker which always accompanies interlace and which gives you a headache in sec-

onds flat. Darkseed is one of the adventure games that I look forward to taking time over and

enjoying in full - I cannot do it justice in these two pages. Check it out for yourself.



ey out with the kids, at the graveyard



Very easy to set into ADDICTION

probably have been strung up. But as times

you must make your way through various

small creatures to make a potion with.

reminded me of Ghosts and Goblins, except

Rasically Creatures makes a mockery of all year or so, namely Lemmings, Skweeks, Dizzy and platform games too numerous to



THALAMUS = £25.99 = 1/2 meg = Joystick = Out now



Uh oh - can you guess what will happen next,

pation and at first I was quite let down. It



Splish, grind, splat...

standing on it that resembled a blue potato. It was obvious that he was going to do

how graphic the mutilation is that occurs. So I blundered around trying to help my little friend but to no avail. He was jacked and came back with a chainsaw, turned it

After a couple of seconds the animal that looked like a blue potato began to rip in to

Let me tell you, the programmers left out no detail. The poor thing's body vibrates as his organs are sprayed from his body. Sick, very sick indeed. There are three other forms of mutilation in the game - you may just be able to glean

to figure out the puzzle. It maybe involves jumping on seesaws or breaking glasses of

the cult game of 1993, but it's definitely

is, it's pretty challenging.



good buy. It is challenging in every aspect My only beef is that it is a little too chal-

lenging in parts, and three lives just aren't enough. Oh, and don't show your



VISION Relitant but sick animation







March 1993 GAMER 12



Ye-ess, that's right - and now zippy will show us how to perform a tonsilectomy without surgical

RAGNAROK

MIRAGE = £34,99 = 1 Meg = mouse/joystick = Out now

he historically aware among you will no doubt be perfectly familiar with the concept of Ragnarok - a all the gods gathered their armies together in a fight to the death, to free the world of evil and create a better plane for mankind. brought it to the attention of the rest of the

office, who erroneously believed that Rag-Those Nordic types were a tad rough if me correctly the failed - Edi. No I didn't -Mr. Haworth "asked me to leave" because of

Anyway, we could reasonably expect a involve arradev hacking aplenty, combined with a fair old beat-'em-up element and no small measure of animal abuse.

But not a bit of it - no less than a board game is what we have here. Ragnarok is based, for those of you who've played it, on the ancient King's Table.

Odin is the king of the gods, and knows that he will die at Ragnarok. In this position I must say I'd be tempted to stay at home in my comfy palace and send some minions

to retain his dignity, and decides to face the problem head on, descending to earth with his customised game to pit his wits against devious humans in the hope of picking upon some pointers as to how he can cheat his destiny.

The two sides are the Blacks and the Whites - the Whites represent good, and must protect their central figure (Odin) from the evil Blacks, who need to surround him

ern where he found 11 men and women willing to take him on. Each differs widely in skill, and he (or rather, you) must defeat each opponent twice - once as White and once as Black - before progressing onto the subsequently better skilled competitor.

(there's also an optional one at the beginning of the game), but this kind of success doesn't come easy, and you can choose to practise as Black or White against any opponents of your choice.

Also included is a two-player mode and the original game, giving even more longevity to an already tricky game.

The options allow you to toggle the battle sequences on or off. A battle sequence takes place every time a game piece is taken, and involves the personified pieces

Chess players should derive great satisfaction from Ragnarok, but it's a very easy game to play for anyone - I've never so much as looked at a chess board sideways. but became instantly familiar with the rules. though admittedly didn't meet with a great deal of success.

Despite the battle sequences, it is worth remembering that while effectively offering two games in one package, Ragnarok is at the end of the day a computerised board game. An enjoyable and engrossing one, but a board game nonetheless.





DRAGON'S LAIR 3 -The Curse of Mordread

READYSOFT = £34.99 = 512k = Joystick/keyboard = Out now

the previous Dragon's Lair games will no doubt be familiar with the story, which consists of the fairly standard nasty witch/wizard kidnaps beautiful princess/maiden, holds her ransom for no apparent reason and cackles evily as the kingdom rallies round in panic-type tale.

But for those who aren't clued up. I'll tell you more - because, unusually, the story is a major part of the game in this particular instance.

Daphne ithe princess typel found herself kidnapped by some warlock geezer named Mordroc - Lord only knows why, but there reason? Danhne is your sweetheart and you're going to get married. Well. Mordroc must have some reason for

his purloinment of the princess, and it's unreasonable and rather naive to believe that he would simply hand her back to Dirk without a peep

Which of course he doesn't - in fact it is only Dirk's quick-witted cunning that enables him to divert the warlock's magic onto the man himself, allowing him to rescue his betrothed and sweep her back to where they resume a life a happiness together



Daphne dodges Mordread's fireball - can you do the same?

games do they? But it isn't that easy. Mordroc had a sister, Mordread, and she's none too chuffed that her sibling has been killed. Black magic runs in the Mor family it seems, and Mordread swears to avenge the death Princess Mrs Dirk to the Vortex of Eternity where they will never grow old and never die. Hey, real punishment - we should intro-

again it's up to Dirk to perform the suitably heroic deeds that will free him and the mis-

The game is split into 20-odd levels. which are actually only single animated sequences, so packed with colour, detail and effects that it takes about half a dozen

disks to fit them all in. Dirk is faced with a problem in each sequence, related to the trouble conjured up by Mordread, which he must obviously

solve in order to progress. Having booted up the machine and loaded the game, I was absolutely gobsmacked by the brilliant animation of Don Bluth (last seen in Guy Spy, for the curious among you) that virtually leapt out of the screen at me. My God! This was going to be

Or so I thought. As it transpires, the gamer is not in total control of Dirk in true arcade style - there are a limited number of moves he can make, and instead of initiating the action you must take note of what happens around you and respond to it.

Unfortunately, and quite unbelievably, your responses are limited not only in terms of movement but also in terms of the time at which they must be carried out.

Whereas pushing back on the joystick or keys would normally - obviously - move your character backwards, Dragon's Lair for some reason insists that your move is carried out at the exact time the programmers intended it, otherwise Dirk will simply not

The obvious moves are not always the correct ones to make, and even if you do choose correctly, then unless it's timed just right you'll lose a life, and may guite reason ably think that you made an incorrect If this sounds laboured I applicate but

unless you have actually experienced the frustration of this as I have then it's difficult to understand just what how ridiculously unplayable the whole thing is, which is a real shame as the presentation is absolutely

Dragon's Lair 3 resembles a high class running animation demo more than a game, but even as such is rendered close to useless because of the difficulty in accessing

After being treated to the stunning level of detail. I am genuinely disappointed by this game as it offers nothing in the way of gameplay and is far too expensive to put

chase just as an animation package. close to the presentation then Dragon's Lai 3 would be a worthy winner of a Game Gold - as it is, unless you desperately need

to see some beautiful animation and have plenty of cash to spare. I just can't see any reason to buy it, which is sad.





VISION

The brilliance of the graphics

March 1993 (ANNIER 14

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h, look here if it isn't an old friend of mine. Who is it, you cry? Ah, well it goes by the' aame of Mr Hype. delo Mr Hype. do ou mind if ask you a question? Sure, ire away. What do you think of Street ighter 2? Street Fighter 2 is undoubtedly



going to be the best beat-em-up ever on the Amiga, is going to be faithful to the SNES version and will feature amazing graphics, mind-blowing sound and absolutely brilliant playability. SF 2 is the hottest two-player arcade



action game you can get. It has gar-gantuan sprites and stunning fights -In fact it's the game that the Amiga in fact it's the game that the Amiga was made for. Hmm, thanks Mr Hype for your unbi-ased and objective comments. So kid do you honestly think that Street fighter 2 will be as good on the Amiga



as it is on the SNES? Ha, well I person-ally think you've been ever so slightly Hands up who got the game from Granny and Grandad for Christmas and eagerly loaded it up and then wept

US GOLD = £27.99 = 1 meg = Joystick = Out now







buckets. If you have a friend who owns a SNEs and SF 2 I would keep the fact that you've got a copy of SF 2 on the Amiga very quiet indeed.

Perhaps I'm going over the top because Street Fighter 2 isn't really that bal. If is not amazing, but thanks to Mr. Hype your expectations have

been unnecessarily raised and you probably think that the game is going to be the best ever on the machine.

to be the best ever on the machine.

That's Mr Hype for you, making the eager young(ish) devils that you are scribble the game down on your list to Santa and find out that it's not quite as good as every-

one says it is. Right, now I've got that le off my chest I might as well tell you about the game even though you proba-bly know everything that there is to know about SF 2, from what moves Ryu does to the size and colour of Blanka's

The object of the game is sim-

ple because all you have to do is take your fighter around the world beating the crap out

around the world beating the crap out of all the other fighters. It does have some things going for it and one of those is the fact that you have a choice of eight fighters. You can pick Ryu, a sort of Karate

kid lookalike; Ken, like Ryu with blonde hair; Dhalism, an indian rubber man; Guile, an American Gi with a Bart Simpson hairdo; Zangief, a wrestler who likes nothing more than throwing oiled men around a ring; E Honda, a fatty sumo wrestler who needs a bra; Chun Li, a Chinese Cynthia Rothrock type and last but not least, Blanka, a green kinned, monter with. kid lookalike; Ken, like Ryu with green-skinned monster with orange

Each fighter has his/her own special moves. For instance Chun Li has the vicious spinning bird kick among oth-ers and Edmond Honda has the hun-dred hand slap, a sort of handbags at

40 paces kind of move.

Also included from the coin-op are the gratuitous violence bonus screens. The fighter is given the chance to earn bonus points by either smashing wooden barrels to pieces, punching and kicking three burning cans or wrecking and destroying a snazzy and



very expensive car. Hey. If that isn't gra-tuitous I don't know what is. Street Fighter 2 was never going to be as good as the Super Nintendo ver-sion, but I have to admit that Creative sion, but I have to admit that Creative Material have had a damin good go and possibly done the best job that they could do considering the Amiga capabil-ities that they had to play with. The graphics are almost identical to

the coin-op with the exception of loss of colours, but unfortunately they're very jerky and also the

dodgy. It's not funny en son ne hits you and you're nowhere The sound is not

rilliant and when Chun Li attempted her 1,000 kick manoeuvre she ded like a dog yap sounded like a dog yap-ing. Some of the original speech is included though with the fighters scream-ing all manner of les that sounds like

apanese.

The game is slow – not as slow as a cortoise, but more your old age pensioner kind of speed. It's much better in the same of the

one-player mode simply because it slows down to sloth proportions in two









yer. Some of the special moves will ly work once in a blue moon and are more than a bit fiddly, but seeing that the SNES has six buttons and the aver-age Amiga joystick only has one I can't really moan that much. On the easiest level I completed the

ame in one go, but stick it up to the dest and you won't have a chance Overall Street Fighter 2 will be a dis-cointment to most Amiga games ers due to the fact that the game has been hyped too much. SF 2 is just slightly better than your average beat-em-up. If you've not bought SF 2 I would save your mon and wait for Body Blows by Team 17 and if you have bought it, then tough. As Chuck D and Flavor Flav from Public Enemy cried in unison: "Don't believe the hype!"



Nice graphics that are almost faithful to the coin-op original AUDIO 30000

Not bad speech, but other effects are fairly dire. PLAYABILITY 3000

Very slow especially in two-plever mode.

ADDICTION 3000 Put it on the hardest level and you'll

be at your Amiga for years.

Superhero

minute they have you writhing in delight at the antics of their Lemmings, the next you're howling in disappointment at the likes of Red Zone and, as featured in these pages, Air Support.

well-trodden avenue of the beat-'em-up. You may have noticed - I certainly have - that most of those offerings on the market at the moment are so similar that it really is a case of not luck as to which are bought.

But by Jovel - you know I think Psygnosis may have hit the nail on the head this time

Core Design are awakening from their post-Curse of Enchantia slumber with a seguel to the groovy Chuck Rock, Paul puts on his cape and picks up his club to check it out

set in the USA in the year 2005, when anarchy rules the streets and everyone takes a

This is apparently all down to some bloke

called Apex, a power-

seeking revenge on a world he believes made him the freak he is. Everything is going to pot - what the world needs is some kind of do-gooder with similar abilities

Chuck Rock 2: Son Of Chuck

his heavies Brian Clay and

to put Apex in his place. You come in at this point as you'd guessed, chasing Apex through the streets of America and generally beating up whoever you come across. Sound like a new concept? No? Well

Before you actually get your mitts on any one, you must decide what kind of superhero you want to be, and are provided with a "Design-a-Superhero Kit". Strengths, weaknesses, genetic make-up - even the clothes he wears can all be designed to your own

For instance, you might want a Batmantype character, complete with cape and pointy ears, or perhaps you'd prefer a new kind of crusader - say, a woman with big muscles, a blue face and leans.

Virtually anything is possible, and from what we've seen so far, it looks like a lot of



probably the best of the imresus accessment platformers here it first appeared on the Amiga any months ago. It revolved ound Chuck Rock himself tracking war the nasty Gary Gittler, who danpped his girlfriend, Ophelia. Atter his victory Chuck's confi-nices soared, he began to feel bet--ra about himself – he even tearned ignore his own pungent odour – confidence soared, and we now

his heavies Brian Clay and Rabid Bowie (not) kidnap Chuck, informing Ophelia that he will be unceremoniously hacked to bits unless she signs over Chuck's business to car manufacturing company – making cars that he himself designed. Oh yes, and he managed to find time to have a kid with Ophelia, who is now his

plant. Jagger and

Plant, where Chuck Sr is being held.

The graphics look great, and with the addition of loads of bonus levels and new characters, Son of Chuck is looking like a very worthy successor to the title of King of the Cavemen.

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type programme for the very young.

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LPD28 - BudBase 1 - Very nicety polished LPD35 - T-TecDraw - Full technical drawing

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LPD43 - Amos Lazerzone - One or two players with excellent graphics. LPD44 - Formula 1 Challenge - A

LPD45 - MUSIC ROX - The ultimate in music education for kids. I meg.

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ACCOLADE . £25.99 . 1 meg . Mouse . Out now

f I had any say in what should have been number one in the games charts last Christmas it would have been Waxworks in a joint first with Darkseed. But I think there would have been a serious outcry from the parents of young children if they had all rushed out and bought

Seeing your five-year-old child bursting into fits of giggles on seeing the semi-severed head of one of Jack the Ripper's victims is probably not how most parents would like to spend their Christmas.

I think it should be stressed that although Waxworks is an excellent game it won't appeal to everybody and some people will find it com-pletely offensive. Many of us in the fice are still baffled as to how the

game got on to the shelves without it having an age certificate attached to the box But who are we to decide what

should and should not be available to the public? I wouldn't wish Biffa on any unsuspecting member of the soci-

The composition of Waxworks is brilliant. The programmers have taken basic elements from adventure and arcade games, combined them with some truly inspired graphics pro-gramming and come up with one of the most devilishly hard games I've

seen in well over a year and a half. It's basically an adventure game but it's split into four different scenar-ios instead of one huge one. This serves to keep the gameplay fresh and the graphics interesting

In each scenario there is one large monster you have to kill - this monster is actually the evil sprit of your twin brother which has over taken the waxwork which you have chosen

The first of these scenarios is an tian pyramid which you have to explore. As ever there are various things that are there to hinder your progress, in this scenario it is the pyramid guardians who will hack your bits off at any opportunity.

There are lots of rooms and things to explore and there are always lots of other items like weapons and so on

that will help you but it all boils down to a maze game so it's always a good idea to keep a map. In the next scenarios it turns out that you are Jack the Ripper. It was in fact your evil twin brother who had

killed the little girl lying in front of you but the police don't know that and they have seen you near the body so you are a hunted man Again it's a bit of a maze. Belting round the streets of 18th century Lon-

don you're bound to get a bit lost now and then aren't you? This section is probably the most graphically stunning part of the game. You can even climb up on of the roofs and look out across the

The main thing you have to worry about is the police - stay in the same place for too long and that's it, to the gallows with you. That's why the first ing you have to do is find yourself a

And it not just the police you can run into, you can also get beaten to death by the angry mob which the daughter's father has put together. If



to give up, do they

mmy why is that green man ide that goldfish bowl?

you get really stuck at any point in the game you can call on your deceased uncle who communicates to you through a crystal ball which you have in your possession

I know it sounds a bit silly but it really is done very well - you even have that animated face of your uncle's mush talking to you. The next scenario is mine-infested

with killer plants and mutations which are dying you give you horrible

To protect yourself you have to find a plant sprayer filled with insecti-cide which I found quite hilarious. Then you have to take tools and other equipment from the bodies of the ex-mine workers who were unlucky enough to get tangled up with the rouge plant and its friends. The final scenario is the graveyard scene - you have to find your way around the maze of gravestones and

This wouldn't be too hard a task but of course this is a graveyard so you have zombies by the dozen chas ing you and trying to rip your limbs off. I can find little fault with Waxworks apart from the fact that most of the scenarios involve some sort of mare or other which can get a hit

Do you ever wake up with blood every who and all you can think of is Wednesda



All of a sudden Billy loses his heada

VISION Hold on to your lunch. fantasticly gory. AUDIO

3000**0** Good atmospheric tunes

PLAVABILITY All the fun of arrade and adveture games

ADDICTION 1000 Yery addictive, you'll be alued

You look familiar - have we met before?

ACCOLADE • £24.99 • 1/2 meg • Keyboard/joystick/mouse • Out now

ere's a quick intro for those not in the know. here's a game called Tetris that features blocks of varying shapes falling vertically down your computer screen intent on nothing more than causing a blockage, thus concluding the action and ending

Fun? But how can one derive fun from such a seemingly futile exer-cise in basic computer graphics? By preventing the blocks from building up - that's how

Yes, simply rearrange these little devils into horizontal lines using just a handful of keys, causing them to disappear and consequently elongate your game

Sounds easy, doesn't it? - not to mention boring, pointless and dull. By jiminy though, it's addictive, and possibly the world's most widely

Why am I telling you all this? Well, as with any successful concept, there are those who aspire to the same greatness - Columns, Towers -call them what you will, they're all younger, less meaty brothers of the

Zyconix is a member of the family too - kind of an incest-spawned, two headed child with a hair-lip and a a few original quirks.

The basic idea is the same - simply

classic Tetris

don't allow the screen to fill up. Instead of different shaped blo though, you are bombarded with coloured rectangles that need placing in colour order, either horizontally or

onally, to keep your screen clear. Half a dozen or so different projec-tiles may fly at your blocks from time to time, and range from bombs and utility blocks to a rebounding ball that constitutes a mini-Blockout

As well as the standard mode there are three variations, each one accominied by its own tune - jazz, rave, funk or soul, whereby you choose whether to race against time, go for bonuses, and other such shenanigans. There is even a two-player mode

Overall Zyconix is a very competent variation on a theme, but Accolade may find that many people are unwill

played side by side

ing to pay full price for a game that appears in many forms in budget and Having said that, unless you

already own a so called Tetris-clone,

you could do worse than check it out - it's fun, addictive and one of the best of its kind on the market.





AUDIO 0000 Decent tunes - may begin to

crate after a while though. PLAYABILITY 9000 stand, but the actual control

ADDICTION 0000 It'll have you hooked, but

Licensed to... erm, thrill - surprisingly

OCEAN . £25.99 . 1 meg . Joystick. Out now

he last thing that the toiling Gamer team wanted was another platform game after the excesses of Christmas. Especially after having to beat some drunken fool back up the chimney because he nicked my mince pies, but alas here it is - the first of a new breed of 1993

Ocean are really into this film tie-in thing, they do all sorts from Hudson Hawk to Cool World and in my opinion they don't do them very well. Basically because none of the gar resemble the film in any way. You play the role of Riggs or Murtaugh the head case copper who is played so well by Mel Gibson in the Lethal Weapon films. Thus, being a nutty copper with a testosterone overdose, you are sent on various ridiculous mis sions in which you are hideously out-numbered by axe and machine-gun

ielding psychopaths.

<u>Loathed</u> as I am to say it I actually quite got into Lethal Weapon. It has a certain simplicity, unlike most games which treat you as though you should be knowing what you're doing seeing as you bought the game and every-

Your character starts off in poli headquarters and you have to bound around from room to room to choose your first mission. There are three to choose the first of your three mis-



Think I'll check if Danny Glover's cleaned his under

sions. One you cannot select until you have picked up a secret code from somewhere or other.

This was the first aspect which

This was the first aspect which drew me to the game. You aren't thrown in right at the deep end, you start off on a realityely easy mission and work your way through.

I was quite disappointed at first with the graphics because they seem unnecessarily simple but the reason becomes apparent after you've been playing for a bit. Each and every serie on the screen had it yow indisprite on the screen has its own indi-vidual little movement whether it be looking around furtively of having a peek over the side of a ledge. which is a very strong sign that the pro-grammers have taken a long time

over the game.

The rest of the scenery is very simple, barrels, plain walls and the like which gives the game a very spartan appearance. Apart from that, the graphics are pretty spot on - everything moves very smoothly and

Ening moves very smoothly and clearly.

There are three main sorts of baddies. The first are the usual henchmen of the control of the contr

He tries to lop your bonce off every time you venture in his space. Sound FX are pretty much what you might expect – gun noises, things falling over and people dying

might expect gun noises, things failing over and people dying they're certainly not bad, but the game would undoubtedly benefit from something a little bedfire (how beater and one that the ill must admit that I did like Lethal Waspan a lot I never have been much of a lar piatform game but full one is opposing to a reason one is opposing to a surjung that the paiderium farm say find tethal Waspan a bit easy some respects. Either way well worth a fook.

9000 Graphically quite plain, but a nice variety of movement in the

sprites. AUDIO 9000

convincing our sounds and

PLAYABILITY 9000 Easy to get into, easy to stay involved.

ADDICTION 9000 every so often and enjoy a



Now Mel lurry, if you'll just dive backwards and land on your head, we'll call it a wrap, dahling!



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DUNGEON

Shout for help – after guard leaves the dungeon, pick up the key and unlock chains. Go to the wall on the far right front and pick up coin. Push the wall at the back right to reveal a hole. Pick up paper clip from hole and unlock

HALLWAY

Pick up the fishbowl next to the door and proceed left. Avoid the mallets and the whale if possible, collecting all the jewels along the way until you reach the door, which of course you walk through.

UNDERWATER

Put the fishbowl on your head and go to the railings where the fish is trapped, and push the railings to release it. Go left and look at the hole in

the ground - pick up the pipe from the hole Say 'hi' to Mr Fish at the shop and give him the pipe in exchange for some oxygen. Continue left, where the freed fish will drop a shell for you to

Wait until the turtle is above you, then give it the shell and it will give you a ride over the electric eels. Look in the reeds to the left and pick up

you a Into over the the electric prod. Fight the shark with the prod, continuing left until you reach the plug Insert the prod into the plug – you will be transported to the cave.



Curse of

Are you cursing at Enchantia? Fear ye not chums, for we are here to calm the nerves and soothe the brain. Actually it was nothing to do with us - hearty thanks and manly handshakes go to Keith Grabban of Bath for saving us the trouble. Part two next month...



CLIFFS

Keith's advice is to save your game often along the cliffs, to save you being sported way back should you fail

Go to the right, pick up the rubber gloves, and stop at the big rock. Push the rock, jump over the rock, and continue to the right until the rock falls on you, transporting you back to the start. Follow the same path as before until you come across some buttons on the

Walk right, pick up the rope and walk right again just before the electric man. Fight with rubber gloves on and continue right until you reach the falling rocks.

Wait for rockfall to end and walk to first recess (cave?). Stay here until the next fall ends, then go right, into the next cave, and pick up the chewing

Wait for yet another rockfall to cease then go right, wearing the chewing um (yes, you read it correctly!), and you will pick up a rock on your head. row the rock to form a pathway, walk right, throw rope, jump rope, then

walk right and look at writing on wall.

Now you have to let the big rock fall on you and be transported back to the start, making your way here all over again – don't worry, it's easy second

On returning to this point, go to end of trail and say "Open sesame". An opening will appear – walk to the opening, say "Hi" to the bird, and you will be transported back to the village.

Enchantia



COUNTRYSIDE

Look behind the large rock in the centre and pick up the jewel. Go left onto the footpath until a pirate appears. Pick up the knife and fight him with it, then pick up the money he leaves behind. Follow the path to the village.

VILLAGE

for Sally See-All.
Go in here and give money to the seal, who will give you a clue as to
where you should go next. Return to the square and go straight ahead, to
the Mage's. Give some money to the wizard, and he'll transport you to the

CAVE

Come to the very front right of the cave and first look, then pick up the sea-weed. Go to the back wall, push the button, and an entrance will appear. Pick up as many rocks as you can carry from the places indicated on the map [there may be more].

iay be more). When your sack is full, follow the map to the Rock Basher and give him all our rocks. Now go and fill up your sack with rocks again and bring them to

Find the plank, pick it up, and use the plank with rock, Make your way to e gold coin, picking up the remaining coins on the way, Return to Rock shirt, who will now give you a stick and string. Go to the cave with the four holes in its wall and look in all the holes to find a creature emerge, Look again in the hole on the far right, and pick up the cave with the four holes in its wall and look in all the holes to the cave with the four holes in its wall and look in all the holes to the cave with the four holes in the same way to the cave with the four holes will be a same to the cave with the four holes of the cave the cave with the four holes of the cave the cave with the four holes of the cave the cave with the four holes the cave with the four holes the cave the cave with the four holes the cave the cave

the heigh that you will now see in there. We heigh with restruct, then go to the computer care, pick up computer and took in the heigh in the wall, where you will find a wire real. Beturn to the plant care, stand behind the plank and throw the computer which will capitally upon each the heigh. You go the mapper, law to the standard will be the standard with the support and throw the mapper can be able to the standard will be the support and will be supported by the support and use the view with the tent pages in the ground. Now pick up the soul clif behind by the mach care, and use it will you revery support care. Pick up bett the money and the gift that appears pick deepy a fag. Soc. On. Pick up bett the money and the gift that appears pick deepy a fag. Soc. On. Pick up bett the money and the gift that appears pick deepy a fag. Soc. On the falling excits. West the cap and go right, to the exit. Jump in the booket and wear the mask, and chock means?





Pretty interval screens like this make up for the lack of impressive on-screen graphics t's a long time since anyone has had

the bottle to put a game of this ilk out. Tank games of this sort are ten a penny on the budget market but they get very boring very quickly.

But if you are like me and have an eternally open mind (cough cough) then you can appreciate that such products as this have a very basic idea to them.

At first sight Cytron looks like a pretty poor effort. In the ever-expanding world of computer graphics it is very rare nowadays that you get a game with less that average

Rampart is the only other game that has been released recently that I can say would do well in spite of the pretty poor graphics.

Your mission is to pilot Cytron, a freshly around a research centre saving scientists. Cytron's main gimmick is its ability to divide itself into smaller and more manoeuvrable craft with even more silly weapons for you to start blitzing the inhabitants with. You infiltrate a secret research base and

rescue the humans trapped there by the

Unless you get in there soon the people as possible an automatic destruct sequence is activiated, so if you don't get out in time

The humans are pretty easy to find but they don't seem to show any intelli gence at all which I found a bit disappointing. They will just walk until they reach a wall and then keep on going, getting



The colour palette's a bit browny all the way through

workforre which you are up against is pretty formidable Bouncers, Assassins, plus supporting cast each with make it a real challenge.

None of the opposition is sheer volume makes up for the lack of originality. Generally they aren't

give themselves up for easy cannon fodder hot shovel, and Cytron is not the most manner wrable of vehicles. One rather irritating aspect is the enemy

robots called Assassins which are pretty deadly and look very similar to the humans If you remember that you are up against

enough time to take in the physical characteristics of each sprite so quite often you find



but does it have





doors you have to shoot to open

ness of the scrolling - it is quiet awesome. Next are the sound effects - the various booms, blams and blaps are really satisfying as well as the atmospheric sounds that are thrown in for good measure

One thing that is cropping up more and more in games nowadays is an interactive

you can upgrade your weapons depending more tricky levels you can get plan view of

Mine splits in two!





to, fun to play.

ADDICTION GOO (pep you coming back

the level to find out where you are and how to get round it.

The individual ships have their own weapons - choose either a bomb launcher or a laser - and these can be individually upgraded if you need something with a little

Cytron's a breath of fresh air after the recent spate of adventure-type games. A good shoot-em-up combined with a bit of a puzzle.



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his, the second release from Interhas a hard act to follow if it is to nue to build their a reputation as developers of quality games, since the still popu-It's a bit of a mish mash actually - essentially an adventure of sorts, not only does it

Evil forces have the world in their grasp they stole the Golden Chalice from the

With your crew of three bizarre outcasts you will have to sail around the old West Indies in your trusty boat in search of the fabled holy drinking vessel. At the beginning you are presented with a map of dozens of Decide where you would like to go first, and

for clues as to the whereabouts of the chal-

much information unless you first gain their your cargo as you go. Additional crew mem bers can be hired, and as your wealth grows more boats can be purchased. While on the seas you will from time to the name came from) who demand money bandits are also in abundance, so beware,

Piracy attempts to combine elements of all types of games - a task that were it suc cessful would present us with an absolute stonker, but it's virtually impossible and ultimately Piracy tries too hard to please every one. It's a real shame actually because an excellent game lurks somewhere beneath the programmers' over-ambitiousness













A FROM THE PAST 1938

Game Title: Arkanoid – Revenge of Doh Company: Imagine Software

Paying tribute to the rich legacy of games in the Amiga's illustrious history, Ben Styles reviews two more oldies



this version is Arkanoid – Revenge of Doh. Doh is a nasty organism-controlling beastle who bimbles around the galaxies taking control of the natives willy-nilly. So what do you do, eh? Well personally I wouldn't send a digar-shaped space ship.

does do some good.

There is little deviation from the original Brick Out game. You are a bat at the bot-

rsonally price ship to

out the bricks to progress to the next level.

The main difference between

Arkanoid and the original is the power ups. By knocking out certain bricks, capsules drop down. These do all sorts when you catch them, from making your bat bigger (fur gufaw yip yip) to running a multi-ball sequence.

we're still coming across new ones now. To add a bit of spice there are also some little space invaders

to hinder your progress – these tend to deflect balls and send them in a totally.

do have some worth as far as scoring goes but generally they are a pain in the nethers. Arkanoid is the

pain in the nethers.
Arkanoid is the definitive bat and ball game. There are quite a few clones nowadays







Game Title: Jimmy White's Whiriwind Snooker Company: Virgin

had a million and one different versions of itself released in the last few years. Jimmy White's, as it is known, is the definitive version of the Crucible classic.

You view the screen from any angle you wish by panning left, right, up, down, in and out (shake it all about) with the mouse button. Once it out have the view you want you have to rake your shot – quite an important part of snooker.

To help you with your shots you can put backspin or sidespin on the ball, to line you up for the succeeding shot.

But if you are like me and you're happy to get the shot in the first place then you don't tend use this very often. Also, for the tricky shots which have quite a high angle there is speed controller to slow, add or

which have quite a riigh angle eed controller to slow, add or e speed of the shot. One thing that must be stressed about snooker is that it is a very easy game to pluy It does sound a little icon stands for in case you get stuck.

There is also a good choice of opponents to choose from,

ranging from the appalling the extremely good, who kno off 147s like clockwork. I would imagine that the

and this has been proven more than once by the dire offerings endured. With its easy



agh, JWs is as close to playing snooker you can get with out sitcking your bot tom out at the British



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Tutorial

ust in case this is your first encounter with Basic here are a few fundamentals. A computer program is just a list of statements which specify actions that should be carried out by the computer.

statements are governed by a set of rules unlike the rules of grammar of a conventional spoken language such as English.

To learn how to program in Basic you you must learn how to put statements together in meaningful way. Basic is very encounters statements that are incorrect you'll get error messages that should help you identify the cause of the problem.

As well as syntax rules, which must be followed, most programmers adopt additional program style and layout conventions - I'll outline my conventions as and

The version of Basic provided on last month's CoverDisk uses a number of libraries which you'll find in the libs directory. You should make sure that copies of directory LIBS: is assigned to after boot



beginners series on Basic programming Basic icon select Directory from the tor is concerned, most of the menu

options will be self-explanatory - those that aren't you will not need to worry about yet. So double click on the HiSoft Project menu, enter RAM: (so that everything is done in the RAM disk) and make a start by typing in this one-line Basic

giveaway of Hisoft's Basic,

Paul Overaa starts a new

PRINT "Hello World"

Now select Run from the Program menu. A window will open and you'll see various messages as the compiler reads your program and converts it into nunnable form

If all goes well the last line displayed will be "Press any key". Hit say the space bar and a window will open, the words "Hello World" will appear and, since the running of the program is then complete. HiSoft Basic will again ask you to Press any key. At this point you will be returned to the editor. As far as compiling a Basic program goes that's virtually all there is to it! The word Print is a Basic-reserved word that results in things being displayed on the screen and in this case the "things" being printed are the characters held

Expressions like these are called string constants, because they represent pieces of text which do not change. Sometimes however a program will need places to store items that do change, so Basic also allows you to set up "variables" which are essentially named boxes in which you can place information.

between the double quotes.

Basic variables come in all sorts of shapes and sizes but the ones we are currently interested in are those used to hold text strings. They are characterised by having names which end in a dollar \$ sign and, needless to say, they are called string variablest

Since HiSoft Basic's variable names can be of any length, you should aim to use names which tell you something about instance, you were collecting someone's

name, you might use a variable called user name\$ (note that underscores can be used to improve legibility). This could then be used in exactly the same way as the equivalent string constant:

In this case the first line of the program assigns the characters specified between the double quotes to the variable user names, and the second line of the program causes those contents to be printed. A more important way of initialising, or setting up, a variable is by collecting input from the user of the program, Go back to the editor and either delete

tioning the cursor somewhere on each procontrol and Y keys together) which deletes a whole line, or by selecting New from the Project Menu to clear the display.

Now enter and run this example which uses an Input statement to collect a user name and place it in a specified variable:

IMPUT "What Is Your Wame", user name\$

When the program runs you'll see a message appear followed by a question mark. That's a prompt to enter some data so type in your name, press the Return key. and the program will say hello to you. Basic doesn't force you to use separate lines for every statement. Multiple state-

ments can be written on a single line as long as they are separated by colon signs. so one alternative way of writing the above

code is:

It's worth mentioning at this stage that HiSoft Basic doesn't worry about the case of reserved words although, by convention,



This month's commands

Syntax: IMPUT [;] ["prompt" [;],)]

Purpose: This statement prompts user for input and assigns it to the variable list. A comma after the prompt will suppress the appearance of a question mark. the Input statement will suppress CR-LF

ables (and/or expressions) provided.



START PREMPTS = "What Is Your Name " PRINT START PROMPTS;: [MPUT user_nameS

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o far we've had a pretty good look at the Amiga's insides with ARexx, so this month. I will go back a bit and look at some of the basics again. I hope this will be useful to the increasing number of newcomers on the Amiga scene who

are curious as to what Alleyy is all about Don't worry, I'm not going to go over all the lanquage details again. I only want to highlight, once more, some of the things that are possible with smart use of ARexx. I trust that this material will be just as interesting to those of you already familiar

with the basics of ARexx. A good way to look on ARexx is as a program enhancer, which allows programs to do much more than they would on their own. By adding its own impressive facilities to any existing package, ARexx lets you customise it in ways that could not possibly have been predicted by the program designers. You can think of ARexx-compatible applications as "fully

programmable" programs! This time we will look at just such a program called MathVision, which serves as an excellent illustration of the "autopilot" canabilities of ARexx. The principles outlined here can just as easily be applied to any other similar software.

Visualisation MathVision is a system for developing mathe-

matical art, and allowing the visualisation of complex mathematical equations. It is based around a entered interactively. The formulas are then compiled instantly for

super-fast execution, and their corresponding graphics are rendered on the screen. MathVision has many outstanding abilities. It has

several different plotting modes, including a very impressive shaded, light-sourced, 3D mode. It even features special hooks which allow C programmers to create new plotting methods. and unusual fractal pictures. It can be used to demonstrate the evolution of mathematical models.

their "morphing" if you like. This can be a valuable educational tool. We all know how much easier it is **The ARexx Library**

Calling all ARexx programmers.

know about it, send it in to AC, continuing to support ARexx is a high priority and as a result we are opening the AC AREX Library.

This new source of AREXX software will be redistributed free of charge on the AC Coverbisk every month. If you want to play your part in the AREXX software additional programs to: AC AREXX Library, Amigo Computing, Europa House, Admigoton Park, Macclesfield,

ARexx's power can be daunting to the uninitiated Alex Gian shows that powerful need not mean difficult to utilise, and reaffirms ARexx's vital role in the modern-day productive Amiga

to understand a process if we see it happening right in front of our eyes There are many other uses for programs like

MathVision - among other things it has been used to design prototypes of imaginative "wipes" for topgrade graphics applications. Basically, if a picture can be expressed mathematically. MathVision will probably be able to plot it.

However, we will not focus on the multiple features of MathVision here, nor on the outstanding art it can produce, but rather we will look at its ARexx interface. The ARexx support that MathVision offers is fairly typical of a well-designed ARexx-compatible program, and should give you a good idea of what

What would we expect such a program to be able to do? Well, one of our very first requirements is that anything which can be achieved using the mouse or the keyboard must have an equivalent ARexx command. This includes menu options which present you with a requester when selected.

MathVision supports all its menu options via ARexx, Let me illustrate with a couple of typical examples. MathVision offers a menu option called Overplot, which allows new designs to be drawn on top of the existing ones. The instruction

sends a command to Mathvision's ARexx port (called MathVision) which toggles this mode ON. Similarly, sending the command Overplot F to the port turns it OFF. Another example - the Modulo



on autopilot



command determines how many colours the program will cycle through, for instance when doing When selected from the menu it pops up a slider

har which allows you to set the value. The same result can be achieved automatically with:

annesss "MathVision" "Rodulo" Var

where "Var" is any integer value (up to the maximum number of colours on the screen). The above are just two representative examples - a typical program will obviously have many options, and scores, if not hundreds, of ARexx commands,

One of the principal ways of using ARexx for script automation is to create a loop using the standard DO FOR ... END Aftexx structures.

For example, you could create different views of a 3D picture, perhaps to combine them into a "flythrough" animation. At each iteration of the loop, the picture parameters are changed appropriately according to the ARexx program, and the results

The ARexx script can then execute automatically, in the background, leaving the programmer to get on with other things. Machines can also be set up to create several complicated time-consuming pictures overnight.

Has this got you interested yet? I certainly hope so, because the script automation facility of ARexx is definitely one of the best features of the Amiga as far as productivity work is concerned

In fact, I have recently seen an ARexx program that allows the automating of software which does not even have an ARexx interface. Can you imagine DeluxePaint under ARexx control?

The second major ability of our program is that it can allow any of the program variables to come under ARexx control! We have already mentioned

Extra goodies!

Finally, I'd like to point out that in addition to the ARexx compatibility mentioned so far, the

that MathVision is a mini-compiler. The user enters the source code as formulas on a number of predefined lines. The source code format is very concise, to allow for quick compilation, and slightly reminiscent of the LISP language.

The point is that variables in your actual function definitions can be shared with ARexx. This is not the same as before, where only the viewing parameters were changed. Here, the actual formulas that drive MathVision itself are changed from ARexx.

You can start your program with parameters for one particular function, and allow these to change over time to produce something different. It is this feature that allows the creation of "transforming" animations like those we have

Impressive wipes, flows and distortions can be produced easily, as you can see from the examples launches your Affects scripts from irons. If you

More neperally. I have sometimes heard it. said that ARexx interfaces are too difficult for the expected to know ARexx. This is nonsense really.

in this page. The possibilities go way beyond simple fractal construction and animation. Professional graphics work can be generated up

to the limits of the Amiga's resolutions. You could even use ARexx to connect and render data that you have collected externally (eg from your satellite receiving station). If MathVision is upgraded to take advantage of the new AGA chip machines it will be an outstanding piece of Amiga software

I hope all this gives you a fair idea of what you can expect from ARexx compatible programs - after all one of the major factors in software development is the demands of the users!

 Details of MathVision are available from Seven Seas Software, PO Box 1451, Port Townsend, WA 98368, USA, British distributors are currently being

















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Chroma concepts

f you've spent any time at all perusing the pages of AC or indeed any popular Amiga magazine, the word genlock tends to pop up ever few pages

These little electronic miracles are responsible for much of the Amiga's success as the ultimate DTV machine. Since the first basic - and dare I say it rather dodgy - genlocks appeared both the Amiga and it's ever-growing band of add-ons have come a long way.

To illustrate the point we can now add the final piece in the DTV ligsaw courtesy of Rocted and their latest release, RocKey. Although not the first chroma keyer, the RocKey is easily the most affordable and flexible unit yet to appear for the

Before we start this is perhaps an ideal point to explain what a chroma keyer actually does and why people like me get so excited by the

In its most basic form, a chroma keyer produces an effect which in simple terms is a direct reversal of the effect offered by a genlock.

As you're probably aware, a genlock's primary function is to overlay Amiga graphics on top of live video. In the case of a chroma keyer the situation is reverse allowing you to overlay live video on top of Amiga-generated graphics.

Blue is key

Although hammered to death in the press, perhaps the most obvious example has to be the familiar "weather man" effect which miraculously places a suitably genial soul above an animated map of the UK and neighbouring Europe.

While you're happily digesting the details concerning your particular locale, the ever cheerful presenter is doing his or her best to quess where on a plain blue background your particular town is supposed to be.

The aforementioned blue background is the key - no pun intended - to the chroma keying

lust as a genlock uses a specific colour - usually colour 0 - a chroma keyer employs any occurrence of a specific pre-defined colour within the live video signal as its keying

Paul Austin - our answer to Scorcese - gets behind the camera with the first of a two-part examination of a breakthrough in Amiga desktop video

medium. Once equipped with all of the necessaries (see panel below) it's time to make the necessary connections and power up.

Actually wiring up all the various bits of hardware is slightly complex but nothing a little examination of the suggested setup diagrams can't soon clear up - although having said that this is just about the only area in which the RocKey's accompa-

nying manual scores well. Although friendly and approachable as technical manuals go, the Rockey variant is just a little thin on content. For

example, there's no explanation as to what exactly what makes up the various effects. The only guide is a series of greyscale graphics

which attempt to illustrate each effect and come accompanied by the necessary button selections to achieve them via the RocKey's control panel. The unit itself consists of a fairly unassuming vanilla hox about the size of an average hard-

back. The front of the unit is dominated by the three-colour control knobs which when activated by an accompanying button allow selection and adjustment of the desired keying colour. For example, when keying onto a blue background, obviously the blue control button must

be selected, but in addition both the green and red control knobs must also be adjusted in order to sharpen and polish the overall effect. As well as the aforementioned colour selectors

another four control buttons await including the essential chroma button which when left inactive allows normal operation of your genlock without disconnecting from the RocKey, Alongside



The wide open spaces of the AC offices with the help of VistaPro and RocKey combination!

chroma control awaits the splitter button which passes any one of the selected primary colours to the digitiser of your choice via the units splitter

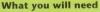
out on the rear of the unit. Below the chroma and splitter buttons sit the effects controls consisting of a toggled effects button plus an inverse option which operates in exactly the same way as a standard inverse on a

Alas that's all that space will allow at the moment but don't forget to tune in next month for a close look at all the effects and options this

amazing little box can offer.







Before we examine the unit itself there are a few essential bits of hardware The first of these is the aforementioned plain background. Any primary colour can be used, with blue being the ideal choice. In addition to the

background the next essential is good lighting. For quality results the sub-The reason for such care during illumination is simply that uniform

lighting and a complete absence of shadow is essential to maintain an

If the chosen key colour varies, or shadows appear, the overlay effect through the Amiga-generated background graphic. As you can see from the illustration, a complete chroma keying setup is quite extensive but the RocKey a standalone genlock is also required.

Obviously Roctec recommend their own RocGen Plus as the ideal In addition to the above I strongly suggest the video source is supplied

recorded composite video does tend to degrade the effect quite

Last but not least comes a good selection of RCA/phono connectors to make the necessary links between the RocKey, genlock, camcorder and target VCR/monitor



















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Routine run-through

he last two programming pages introduced the Amiga Library, with routines that can be used in C and Assembler programs. C programmers passed the input parameters to the routine (as to any other function), and any result was returned.

Assembler programmers put the inputs in the appropriate registers, and called the routine as if it was a subroutine. Any return values came back in register D0

The short demo programs opened the DOS library, for the Output() and Write() commands to write a message to the screen. The current demoprograms use DOS library routines to read data from an Ascii file in the current directory, and write data to a similar file.

Two Exec library routines are needed to allocate a block of memory to store this data, and to AllocMem(hytesize requirements) (D0 D1) nuts by an area of memory; bytesize is the number of bytes wanted; requirements is the type of memory wanted. If the command is successful, a pointer to a block of memory is returned.

Multitasking

The memory block will be available for you, and not overwritten by another program when multitasking. FreeMem(memorypointer.bytesize) (A1.D0) frees the block of memory: memorypointer is a pointer to a block of allocated memony; bytesize is the number of bytes to be freed Open(name,mode) (D1,d2) opens the chosen file; name is the name of the file; mode is the access

A pointer to a filehandle or block of informa-Assembler

Over the past two months, Margaret Stanger has described C and assembler library routines. Here you can find out exactly what they are doing whenever you run them...

tion for the file is returned (the system uses the block of information, when processing the file).

Read(filehandle.buffer.length) (D1,D2.D3) will read from a file - filehandle is its filehandle pointer: buffer is a pointer to the memory area to hold the data; length is the number of bytes to be read. The number of bytes successfully read is returned. Close(filehandle) (D1) closes the file filehandle is its filehandle pointer

The main compiler (or assembler) header directory contains a subdirectory of header files for each library. These files contain useful macros

A header file can be included with any source code. The file exec/memory.h (C) or exec/memory.i (assembler) is included with the source code as it contains the memory requirement definitions for use with the AllocMem() command.

The program asks for memory that is public, clear but not necessarily chip. The file libraries/dos.h or libraries/dos.i is used for the access mode definitions when opening a file. The file to be read (limerick) is opened using MODE OLDFILE, which opens an existing file for reading or writing. The file to be written (limerick2) is opened using MODE NEWFILE which will

overwrite a file if it already exists, and open a When a file is opened for reading, informa-

tion about the file is put into a parameter block in memory, called a filehandle, and a pointer to a FileHandle structure is returned.

Corresponding

When the file is first opened, the read/write position, or file pointer, will be at the beginning of the file. When a number of bytes of information are read or written, the file pointer will move a corresponding number of bytes.

If you do not want any other process to interfere with the file, you can open the file with access mode MODE READWRITE. This access mode opens an existing file for reading or writing, but locks the file so that as long as it is open, no other process on the multitasking Amiga can access it.

It is also possible to lock files, without opening them for reading or writing. This can be especially useful for a file requester program, it can obtain a lock on all the available files and directories, and ensure that they remain undisturbed

















The complete program source code listing (afiles a) will be available on next month's support disk. The file "exec/types.i" has been included as

> "libraries/dos.i" "exec/memory.i".

Instead of having all the code in the main program, groups of comchecks the value returned from each subroutine to see whether the subroutine is successful

If all is well the program can concloses any open files or libraries, and

The C and assembler demos frees any allocated memory. It also memory buffer. If the data has been

calls a message subroutine, entering the routine with a pointer to the message data in register D2, and

The message subroutine only has to put the filehandle of the console in register D1, the address of the DOS library in A6, and call the Amiga library Write() routine to display the data on the screen. When the object program (afiles)

is run, the program opens the DOS library. If the library opens successfully, the program asks the Amiga to allocate a memory buffer for 152 bytes of data.

the program can open a short Ascii text file (limerick) in the current directory, and read the text into the opens a new file, (limerick2), writes the text "This is a new file" into it. and then appends the text from the

The program writes the text from the buffer to the screen, and waits for a few seconds. The program can then display a message of success on the screen, tidy up, and exit,

The C program

The disk will contain the program source code listing (files.c) and the object code (files). The source code includes "libraries/dos.h" and "exec/memory.h" for some of its

been grouped into functions which are called from the main program.

after the main program but their prototypes are declared earlier. The main program is then aware of the name of each function and the datatype of its return value. The cleanup function has a

parameter passed to it, a pointer to a string of text. The function displays the text on the screen then tidies up the ory. The main program can call this function with a suitable message for all occasions.

When the object program (files) is run, the program opens the library, and allocates a memory buffer. The short text file is read into the buffer, and the contents displayed on the screen. After a short delay a text message and the buffer contents are written to the limerick2 file, and the program tidies itself up and exits.

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Composition corner

nough modern music has been revolutionised by the computer and equencer combination, as ever there's a price to be paid for the added convenience Alas the price in question all too often remains

unnoticed by the novice, resulting in the inevitable transformation of inspired ideas into a bland finished product.

The problem is caused by the very convenience that the sequencing explosion has brought about. All too often roles are reversed between man and marhine as the human element mutates into the automation of the machine

As the sequencing carrot of "cut and paste" dangles ever more invitingly before the eyes of the beginner, the creative spirit slowly erodes. By default, machines always lean towards uniformity. However, this adhesion to rules and formal structure can also happen to humans very easily

Ingrained

A prime example are the many classically trained musicians, who although technically spectacular in their implementation, seem to have lost the creative flame thanks to the musical structure ingrained during the learning process

After many years as part of the Transit van set. among a mixture of the classically trained and the self-taught, this insistence on structure soon becomes blindingly obvious during the inevitable

Invariably in the starring role during pre-written material the classical elements usual sink into

Paul Austin provides a potted guide to song construction for the new muso

sion. The question is - why should the best musicians in the room pale so badly in such circumstances? The answer is simple - rigid musical

thought always looks for the correct way to progress, rather than the inspired route chosen the blissfully ignorant

members of the "suck it and While emotion and drives the self-taught from one chord progression to the next the classically trained are right approach, rather

than the inspired. The end result is trained are usually happier playing the works of a composer rather than writing their own material. A guick glance at the popular - and not so

popular - charts stands as a glowing testa-A similar problem afflicts a lot of computer gen erated music as the uniformity and adhesion to a format means the inspired and accidental is often absorbed by the constriction of the "cut and

As a result, the battle against blandness has to be fought almost every time you turn on

> In my humble oninion music is and always an area in which the challenge is to convey the emotions of

> > the inspiration

that brought it

about This is where the real battle between man and machine takes place. No matter becomes, machines will never feel the emotions that

make good music great. It's true that hours and sometimes days can be saved by sequencing but in order to create anything other than lift music you must remain the master and not simply the slave of the machine.









Tints and hips

OK, after insulting almost everyone who's ever played an instrument electronic or otherwise - it's time

button, it's wise to have a firm - or at least firmish - idea of how the piece will appear in its final form. At this point yet another technological fantasy can hit the bricks,

A decent pen is just as important as any part of you setup, and during the planning stage it's vital.

Depending on your prowess on the ivories, or should I say plasticies, this can be as simple or com

itchy finger hits for record, write start looking for a link to the next verse, chorus, middle eight, intro, It's very important that the vari-

headlong into a piece thereby crefollow, the end results will suffer as

you can finally begin the recording the eternal question "is this a classic or just a load of cobblers?" . a top tip is to have an early night and return refreshed in the If in the cold light of day you

can't remember a single note I'm be masterpiece is indeed crap!

process can begin. There are basically two routes available. You can and work on the piece section by section and then subsequently To be honest this is probably

the fastest way to work but again it doesn't lend itself to accidental

If at all possible avoid designing chords, bass lines and accompaniany less important than the rest of the production - in fact quite the suffers from the "cut and paste" more than any other it's the drum

they're left until later in the pro-

Equally important is the fact that adding the drums and percussion later means you're forced

Well, alas that's all that space curtail this particular rant for the hate mail to me at the usual

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E-tiquette!

Ithough many people initially get hold of a modem in order to grab PD software easily, there is another, much larger, side to using a BBS. This is called Echomail, or E-mail

lust like the letters pages of magazines virtually every BBS has at least one area where users can write to each other about almost anything With the implications of a free-for-all, and

high phone bills trying to sort out messages of interest, came the need to create different areas for different subjects.

Areas created for different subjects are known as "echoes", and exist for virtually every topic of conversation you can imagine. Some are computer related, while others ban all mention of

echoes, and while the various rules of behaviour may differ slightly from one echo to another there are some general points common to all. The most important is the necessity to stay

"on-topic". What this means is that you should try to keep to the subject matter that defines a After all, if you join an echo dedicated to

information on modem settings you don't really want to read a stream of messages about someone's cat. Or if you do want to read about cats. all you need do is find an echo where they are

Personal

Another rule to remember is that of "general interest". There is a system of private messaging called Netmail where this is appropriate and caters for users who want to chat about personal concerns (meeting up for a drink perhaps) and such chat should be kept out of the more open echoes most of the time

If you are reading and replying to messages on-line, it's very tempting to skim through, perhaps not reading the full message. Misunderstandings are legion when this happens, as it's very easy to assume someone means the exact opposite of what they actually typed. And in the same vein, while trying to type

A universal language

Because all types of computer can connect to BBSs, some consages may contain. This is generally the basic Ascii set, and you should avoid inserting control codes in case they send another user's computer totally loopy!

However, this isn't as much of a constraint as it might appear. and the Ascii characters are often used by imaginative users to create little graphics which decorate their messages.

users create masterpleces of Ascii art which can take up an entire

However, this is generally frowned upon as it adds tremendously to other user's costs, and three or four lines worth seems. to be the accepted average.

Contacting other users is much more fun than merely downloading PD from BBSs, but what are the rules? Here's Pat Winstanley's crash course on E-mail and manners...



quickly you are likely to express yourself a little ambiguously at times. When this happens, and either the reader or writer gets the wrong end of the stick, what are known as "flame wars" can easily break out.

An angry response, whether justified or not. can set a whole "thread" of messages off, with both sides convinced they are right! The golden rule here is to sit back and think for a moment if something is apparently offensive to you. Then read the message again before replying. Another problem with messages is that it's very

hard to show when you're teasing, or typing something tongue in cheek. To help with this a system has developed called "smileys" These are little sets of typed characters which

attempt to graphically show what sort of mood the writer of a message intends. For instance, if I wanted to show that I had a big grin while typing a reply, as

the other person's message had a mused me, I'd end the sentence with a symbol like this :-) If you lean your head to the left

you can see two eyes, a nose and a big smile. There are lots of variations on this simple symbol ranging from winks to full-blown beards and bow ties.

does eat into your phone bill so some short-cuts have been developed to save time and space.

One of the commonest is ROFL which stands for "rolls on the floor laughing" and is commonly used to reply to messages which make you do just that. If you come across one and can't work it out, just ask in a reply what it means, You'll probably end up with half a dozen or so messages back giving the translation. Some other common acronyms are:

BICBW - But I could be wrong IMHO - In my humble opinion IOW - In other words ISTM - it seems to me FAQ - Frequently asked question

As mentioned, all the above rules are available to the people who run the echoes, and each echo has its own set, laid down by the

The moderator looks after the day to day nunning of his or her particular echo, and posts a message containing their interpretation of the rules at, usually, monthly intervals so that all users know where they stand

Take the time to read these rules as they will give you an insight into the style of a particular echo, and help you use it wisely

If you fancy having a good row there are echoes which cater for that, and they can be great fun indeed, but try not to shout your mouth off in echoes which are not designed for it. Oh yes, do try not to swear or use other offensive language.

Lots of youngsters read the echoes over mum or dad's shoulder, and many adults too dislike being faced with a stream of verbal abuse.



















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Vacillating vectors

oving sprites on the screen is a pain in the burn, and no mistake. First you have to get the damn things moving and then you've got to hold their hand every step along the way, seeing what they hit, and then deciding how to hounce off or explode depending on what the object you've hit is. It's like having kids, or something

Wouldn't it be so much nicer if you could just send an object off in a certain direction and not worry about it until it actually does hit something? Well, you can, But first a bit of maths (groan). No. don't turn the page. Maths is a good thing. Keep that thought in mind and you'll last a lot longer as a programmer!

Vectors are a method of moving objects around quickly and simply, with no complex calculations or

faffing about They should be thought of as a change of direction of an object (or point in space), rather than the usual way of moving objects which is manually holking them about using INC, DEC or things like

It's the difference between picking a toy car up in the air and putting in manually in another place (the old method) and pushing it along the ground and letting go (like vectors).

In Amos terms it works like this. As usual you use the standard pair of variables to hold the X and Y coords of the sprite or bob position. So for example this is the vector demo program:

Curs Off : Hide : Flash Off : Cls 0 : Ink 4,4 : Paper

It's traditional to use the variables DX and DY, as they will tell anyone reading your program that these are vectors. If your vectors are designed to use an FPU (floating point unit), then append them with

In this demo program you start by inputting the x and y direction vectors - this has an effect on the direction that the sprite will go. It's best to try a range of numbers between -8 and 8 for each of the vectors. First the vectors you require are accepted through the input command and stored in two variables called DX and DY:

Cls 0 : Bar 0,0 To 5,1 Get Bob 1,0,0 To 6,6

The Bob used in the program is grabbed from the

Keeping you busy

Phil South mulls over the subject of vectors. What are they? Where are they going? And at what angle



screen using Get Bob, having first been placed there using a Bar command. This is a good way of making simple sprites without having to mess about with sprite editors or anything silly like that, Next we want to talk about X and Y, which in this case are floating point numbers so they are appended with #:

Then the start position of the bob is set to X=160 and Y=100, or slap dab in the middle of the screen, as the screen we are looking at 320 by te 1100 and 114320 and YA40 and YD200

The While Wend loop moves the sprite in the

direction given by the vectors. After a while of running this program you'll be able to predict the precise direction. The Bob is moved until it reaches the edge of

the screen, either less than screen position 0 at the top or left of the screen, or screen position 320 or 200 to the right or bottom Each time the While Wend goes around, the DX nates, affecting the direction of the sprite. The DY and DX vectors can be positive or negative, and the speed of the movement can be varied too. You can put random speeds and random

directions into a sprite making it possible to simulate the bouncing of a ball in a ping pong or squash game, or you can even simulate gravity, if you have the right formulae

This is a very cool and efficient way of shifting objects around, and with a little bit of experimentation you can create very realistic movements for your sprites with very small code.

A lot of Aaron Fothergill's ten-liners (Amos games written in just ten lines of codel) use vectors to chop down the amount of code needed to do very intelligent things, If you haven't seen any of these disks, then join the Amos Club right

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Feeling better

he canny British Amiga users appear to have an instinctive fear of software upgrades. Having paid once for the software, many users don't see why they should have to pay again

Well, yes, there are times when an upgrade isn't all it's cracked up to be. But saving no to every upgrade that comes along can often mean missing out something special. The latest version of the Touch-Up hand scanning software is a classic

Touch-Up is the software provided with the AlfaScan and Golden Image hand scanners. Early versions were ugly, buggy and slooocow. Version 2 fixed most of the bugs, v2.5 saw more improvements including a 256 grevscale Save option. Now comes v3.02, which has been completely

My two big gripes with earlier incamations of Touch-Up were its poor greyscale conversions and the lack of a real-time scan. No real-time scanning meant that if you got the brightness wheel setting wrong you had to wait until you'd finished the

Real-time scanning means you can see what's coming out of the scanner - you can twiddle the brightness knob and see the results straight away.

Blurry

The problem with the areyscales was possibly subjective - my opinion, in other words. Migraph, makers of Touch-Up, couldn't see much wrong with them. But when you put them up against scans from rival scanners, the Touch-Up scans always appeared dark and a bit blurry on-screen.

There was one other private gripe I held, and that was that Touch-Up didn't look and feel much like an Amiga program. I'm happy to say that this latest version is one of the most eve-pleasing pieces of Amiga software I have used.

Touch-Up will open on the Workbench screen or its own custom screen. The custom screen can be any size you like - so it can be an overscanned interlaced one for example - and you have the choice of running in two colours to save memory, or four colours if you want a pretty interface.

If you specify Tool Types figures for Width and Height that are greater than the screen's physical dimensions, then with Workbench 2 and above

Every Touch-Up owner should invest in Migraph's latest upgrade, advises Ben Pointer

the autoscroll feature comes into play whereby moving the pointer to the edge of the physical screen quickly scrolls the actual screen in that direction. So it's possible for example, if you have the memory. to have a 2 400 pixel by 3 300 pixel screen which can display what is an 8in by 11in area when scanning and printing at 300dpi.

If you open a regular sized screen - 640 by 512 say - then you can still have a larger "page" size, but you will have to scroll around this page using the locator tool or the window's scroll bars.

Touch-Up now does a real-time scan, which can be switched off by a Tool Type if you don't like realtime scanning. To conserve memory and aid speed the program opens a two-colour 320 by 200 pixel screen for this real-time display For line art scans Touch-Up has some useful processing facilities. The Bold option enables you to

automatically add black pixels to the black parts of the scan in the horizontal and/or vertical directions. Cleanup will remove isolated black pixels, white pixels, or both. The Outline feature is fun - it removes the inside of black lines, making them hollow as it were, which means that they can be filled

Tourh-Un can rotate clin areas to any angle in 0.1 degree steps, and it can also slant or "shear" clips horizontally and vertically. As well as being able to flip clip areas horizontally and vertically, which any scanning software can do. Touch-Up can mirror an image to the left, right, above or below the clip, which makes it easy to create

"tiled" images or fancy borders, for example Grevscales can be saved in three formats - 16-

colour IFF-ILBM, 256-colour TIFF or 24-bit IFF-ILBM. Despite the impression given by the adverts, the latter two formats contain only 64 shades of grey



because they have been scanned with a 64 prevscales hand scanner These images can't be viewed on (dare I say it)

an old Amiga - Amiga 1200 or 4000 owners should be able to view the 24-bit IFF-ILBM images. All three greyscale formats can be imported and printed by PageStream - Professional Page can handie the 24-bit and 16 colour IFF-ILBMs. PageSetter Il and all of the graphical wordprocessors can take the 16 colour IFF-ILBMs

The quality of Touch-Up's 16 greyscale images is much improved. While they may look a little fuzzy on-screen, the printouts, when scaled down to increase the output resolution, and especially when using a printing package like TurboPrint Professional, now almost always look better than the same picture scanned with rival scanners.

Conclusion

Migraph has been working hard on Touch-Up. It has come a very long way since v1.0. In the Scan Setting requester there is now an option that reads "Type: Hand" which gives the impression that flatbed scanner support is perhaps on the way, and very possibly colour flatbed scanner at that.

You may not be interested in this, I'm merely pointing out that further development is still very much on the cards, which can only be a good thing. At £20 to £30, this major upgrade is well worth the money

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Tools of the trade

ast month we looked at some of the tools that can be used to create multimedia and CD-ROM applications. This month, I'm continuing with a more in depth look at two of the easier to use development packages that are now available, AmigaVision and Scala.

When Commodore originally released the

A3000, their then top of the range Arniga, they gave away ArnigaVision as an easy to use, multi-media authoring tool.

It is certainly easy to use, working by placing

It is certainly easy to use, working by placing icons on a grid through which the program flows. Each icon represents an individual action such as playing sound and speech, showing pictures/animations and controlling external devices such as laser disks.

Branches

There is also the facility to control the flow of the program through the "branches", ie rather than just following a series of steps your program can have two different routes and is able to chose which one to take depending on the state of a

Given these capabilities, AmigaVision can be used to create some impressive multimedia applications with support for a wide range of hardware peripheral input and replay most types of

Amiga data. Unfortunately it has two serious problems. Firstly, there is no way in which you can create a program that doesn't need AmigaVision to be

used, otherwise known as a run time module.

Secondly, it swallows memory like a vampire brain surgeon. One megabyte is needed simply to load the program! Still if you can live with these shortfalls, AmigaVision is recommended for

its easy of use and peripheral control.

A rival to AmigaVision for ease of use and power is Scala. Originally available in one version, Scala is now in two forms – the original Scala, called Scala SO and its big brother, Scala MM (for multimordia).

Due to limitations of space, I'll be looking at Scala MM in a future issue and confine my scrib-

To create multimedia applications you need the right software.

Julius Alexander looks at two ideal packages

GOT IT!

blings just to Scala for this month. The program itself set the benchmarks for ease of use when it first appeared, allowing presentations to be created ridiculously easily. Originally developed for creating presentations, Scala can also be used for simple anolizations,

Associations It works by creating scripts, each script is a list

It works by deating supplys, each supply, et also of pages and the associations between these pages. Each page consists of an IFF backforp onto which you place test, and bosthes. Text can be in any standard Amiga bitmap font each of which can have numerous different text attributes applied (bold, drop shadow etc) and there are a number of very high quality fonts supplied.

Helping to break the monotony of static text, there are roughly 50 text effects that can be used to scroll, fades and drop into place. Switching between different pages is facilitated by buttons, clicking on which will take the user to a different page.

Each page can be simply displayed on the screen or introduced through a transition. These consist of fades, scrolls and wipes and are fast, even on the lower end Amigas.

Its major failing is that it lacks proper CD-ROM support, with no CD audio or CDXL playing capabilities. If however, your application consists of just screens it's worth a look.

Next month I'll be looking at some recent developments in the field of Amiga multimedia and ask where is it all going?

Are CDTV pictures about to start moving?

As I finish this column, word reaches me of some interesting developments on the FAV front. Word is probably already creeping through about a new CDTV. What form this will take is unknown, but associates tell me that it will include full screen FAV. How you may ask?

The answer comes from a new compression format known as MPEG. This format reduces the space required to store moving pictures. Why should a strangely named what-d'ya-call-it affect CDTV and FMV?

To explain, moving pictures are made up of a number of still frames displayed one after another, each changing slightly. The result is a moving picture. Each CDIV tall screen occupies a faced amount of space, so to display even a half decent moving picture the CDIV would need to display 16 of these a second (the more the better) and thus need to transfer 16 times this amount of data every second from the CD disc - and we all known how slow CDs are at loading. Currently it simply doesn't have the speed.
However, reduce the amount of data to be transferred (ie compress
the data while it loads and then uncompress it once it has loaded)
and the transfer speed suddenly becomes a smaller (compressed?)

problem.

Unfortunately the technology hasn't be available to uncompress these images quickly enough. Until now that is. Several American companies are now producing chips that do exactly this, and Commodore should be able to incorporate this into the next CDTVs – and hopefully, produce an undate card for estisting untils!

This isn't expected to happen for a while, but sources tell me we should expect to see something appearing mid-summer '93! As they say, watch this space!

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The most up-to-date sweep across the whole Amiga spectrum this month takes in the first A1200 add-ons, including the impressive MBX1200 FPU, and some superb educational software

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hen A600 owners realised that Commodore were serious about refusing to support third-pary add-on, many of them when attempting to upgrade their machines with a hard drive were left confused and at the mercy of dodgy dealers. Contradictory information and lost warranties were the only concrete results.

Commodore, one might not unreasonably expect, would have learned from this painful (for the punters at least) lesson and predicted the massive demand for hard drives from the more serious A1200 market.

However, to the astonishment of all but the most hardened Commodore cynics, the A1200 was released in a floppy drive-only format with no firm date for the appearance of the HD version.

To add chaos to disappointment, no HD install disk was included with the A1200 Workbench 3.0 disks, despite the fact that the A4000 install disk works perfectly with its little brother.

Users were therefore unable to buy and fit their own hard drives, and were once again left at the mercy of third-party companies who, predictably, have been supplying pre-formatted HDs.

The problem with this sort of product is that the hard drive is usually prepped and formatted using Commodore's install disk, a process over which a legal question hangs.

If only one install disk is purchased by the retailer, shouldn't it be used to prep just one drive, or one user's collection of drives?

Adding mud to the already murky waters is the warranty question. Most dealers who presently fit hard drives for ead users will guarantee the drive mechanism but are not prepared to replace the Commodore 12month on-site warranty which is such a selling point for the new machines.

Users who have a drive fitted in this manner or who fit one themselves are thus running the risk of paying large sums to have their machine repaired if, say, a chip blows inside the first year.

Commodore's attitude to this has been predictably muted. The A1200 is a closed architecture machine, users are not encouraged to open them, and if they do the warnings are obvious enough that they should be The hard road

A1200 owners with hard drive hopes are experiencing another Commodore comedy of errors. Why?

prepared for the consequences.

Fair enough, but when Commodore's inability to take the simple step of releasing a hard drive version of the Al200 from the outset has been the prime factor in forcing users to risk their warranties in the first place, this cost of defence is wholly involve the

tor in forcing users to risk their warranties in the first place, this sort of defence is wholly inadequate. The existence of an official upgrade path would have covered Commodore's back, but when no HD version is available and no official upgrade is planned for this immediate future, enthusiast and productivity users of

the A1200 can hardly be blamed for taking the thirdparty path.

In this light, Commodore's attitude now seems a little high-handed, doesn't it?

At long last, an HD policy of a sort seems to be on the way. For some strange reason, Commodore are reported to have struck a deal with major official Commodore distributors whereby Commodore supply the install disks, manuals, and cables, and the distributors add a hard drive.

The A1200 is then prepped and formatted by the distributor and sold as an official Commodore A1200HD complete with on-site warranty.

Duplicate hard drive mechanisms are shipped to Wang from the dealers to ensure that Wang have units with which to replace any hard drives which go wrong, but if and how a standard hard drive mechanism

is to be decided on is not known.

Though infinitely better than nothing, the question still remains – why didn't Commodore do this from the outset and why don't they now do it for themselves!

Why leave everything to third-party distributors in a move which goes against everything Commodore have done over the past decade?

No Commodore spokesperson was available to answer any of these question as we went to press. Kelly Summer (managing director) was out of the country, Andrew Ball (public relations) has left the company and is still to be replaced, and Quentin Bell (Commodore's PR agency) were able only to confirm that the plan was to go ahead.

What Commodore will do next and why they have abandoned traditional Commodore policy will remain a mystery.

One thing is clear. Existing A1200 owners should not hold their breath for official upgrades. New A1200s will be shipped in HD versions eventually, but an official hard drive upgrade with warranty still seems as far away as Commodore's sun-loving MD.

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NC-100/Lapcat

Although notepads have been around for a good ten years, up until recently there's been little to connect them to the Amiga. Thankfully this unfortunate situation is about to change thanks to a combination of Arnor's Lapcat and Amstrad's new NC-100 - a machine so simple. even Alan Sugar can use it.

In a rare break from tradition, the marketing claim of "five minutes or your money back" employed during the NC's advertising campaign is nothing short of understatement.

The whole system operates around a colour-coded hotkey setup which allows access to the wordprocessor, calculator, diary-calendar-clock, address book, plus a fully functional version of BBC Basic (whoopiel) and of course an alarm

Obviously with a full-sized keyboard at your fingertips the wordprocessor has to be one of the highlights.

To be honest with the budget price tag I was ready for disappointment concerning the quality of the software However I'm glad to say I was a pleasantly surprised. For those of you who were wise enough to invest in the

lanuary issue of AC, wordprocessing with the NC will be just like home from home as a slightly cut-down version of Protext - our amazing giveaway - awaits within Although the words "cut down" may sound rather omi-

nous this only refers to the 48,000 word dictionary as opposed to the 148,000 found on its bigger brother. Other than this the software is almost identical with all the familiar hotkey combinations controlling everything from find and replace to text formatting plus the usual selection of Protext block operations.

Along with the hotkeys comes an assortment of Protext power options such as headers and footers, multiple markers, bold, italic and underlined, macro recording and just about everything else found on its Amiga counterpart An added bonus of the Amor/Protext tie-up is that the Amiga and NC versions of Protext are completely compat-

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A dazzling selection of goodies get the once-over from the AC team

ible. As a result, if the Protext option is selected during transfer, all files sent will arrive complete with their style

boasts a complete selection of printing options which include start and end definition, draft or NLQ, continuous, line and form feeds, selection of parallel or serial port with baud rate, parity, handshaking and data bit control. In addition - and perhaps most important of all comes a small but varied selection of printer drivers which include Epson 9 and 24-pins. Canon BI10e. IBM 24.

tags and formatting information intact. Like any self-respecting wordprocessor, the NC also Laserlet and a simple option. which like all of the NC's setup

controls are selected from special dedicated sub-menus. Once defined all that remains is to connect the printer and off you go...

Although the NC's wordprocessing options are very well catered for, it's by no means the end of the machine's data transportation skills, as the aforementioned address book also has full support for both sending and receiving data.

Alas the format of address book transfer isn't quite as simple as some, and as a result, simply dumping an existing address book from an existing Amiga database isn't

Nevertheless the option still allows you to store and retrieve existing NC address book data to and from the

Merlin's Maths & Play Days

education software, with some really good releases such as ADI and Noddy's Playtime. But what are the new releases of 93 like? Recently released is Merlin's Maths from the makers

of ADI and Play Days, a child's education program hich is to run in conjunction with the TV series of the

Graphically the game is perfect for children. All the sprites are clear and the text is easily readable but the actual activities that the pupils must perform are

The program opens up with colourful graphics There's plenty of movement - everything you shou expect from an education program - but then it goes

The first section is a simple mathematics game – the ipil must solve simple mathematical problems of g complexity. That's all well and good but it



The major challenge of kids' education software is keeping the child engaged, and so games must have some sort of reward every time a question is

owered correctly. Merlin's maths doesn't have any such feature, just the occasional unimpressive graphi-

My next disappointment was the similarity

between the different modules. Two or more of them seem to run along the same lines for no apparent rea-

For the most part the sections rely on the child being able to count. If the child can, the rest of the exercises are a pointless. A poor release:

was disappointed again at first, but as the program The program is controlled entirely by mouse but

One of the options is always highlighted but by moving the mouse around you can change your

choice. There is a good mix of disciplines - a coup questions on maths then a couple of English ques-tions - and plenty of picture and association work



Xmodem. If the phrase "comms" sends a shiver of technophobia down your spine, don't be put off, as like everything else within the NC's little world, transfer whether it be done or addresses, is

whither it be docs or addresses – is extremely straightforward.

An added bonus of the Lapcat package and more precisely the cabling is that the special parallel cable required is totally

generic to all machines and will work equally well on a PC, ST or anything else as it does on your Amiga. As a result, to connect to the PC at work means you'll only require a PC version of

means you'll only require a PC version of the Lapcat software to make the connection with your existing cable.

If you're well versed in the ways of

comms, it's not essential that you take the Lapcat approach, as alongside the two paralei Lapcat options – either Protext or Ascii – await an additional two serial options which once again comprise of both Protext

By using the serial option, any suitable comms package could be pressed into service as an alternative to the Lapcat software/cable combination.

The only stumbling block concerning this option on the Amiga is that the serial connection the NC is a PC-style 9-pin – as opposed to the standard 25-pin used

As a result, some form of 9-to-25-pin connector is needed, requiring either a degree of artistry with a solder-

ing iron or a trip to your local computer centre.

With the correct cabling and a smattering of comms knowledge there's no reason why you couldn't side-step

While on the subject of expense, it's time to talk expansion. Although the advertising campaign goes to great lengths extolling the simplistic virtues of the machine, there's no mention of what expanding the basic 38k of

RAM means in financial terms.

To give you an idea of what 38k means, it equates to six and a half pages of the magazine, or 6,500 words of Ascii

Admittedly if you're only using the NC for occasional note taking it's fine. However, if you're planning to be away from your main machine for more than a few days, it won't be long before the NC insists you delete something before allowing you to make any further use of the unit.

An added problem is that everything within the NC is stored in communal RAM, so the larger your address book the less space is available for documents. In order to combat memory stanyation additional RAM,

or in the case of the NC, SAMA, is going to be a must for many. This additional SAMA is supplied in the form of formattable PCMCIA cards which unlike those used the ASOO and 1200 come with an on-board battery allowing the to retain their information even when the power is off. Unfortunately the aforesaid cards are far from Cheap retailing at roughly (#8, £85, £75, £120 and £200 for the 641, 1281, ±564, 512 and 1024 cards respectively.)

As a consequence you're paying as much for a meg of

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RAM as you did for the machine itself.

Still having had my almost mandatory mean it must be

Still having had my almost mandatory moain it must be said that even the fairly inexpense? 128k card would be more than enough for most users allowing both a sizeable collection of work in progress within the wordprocessor plus an address book large enough for the average individual. Due to both the absence of an Amiga alternative and the

excellent design and implementation of the NC, it's very difficult to find any substantial fault with what is a perfect solution to the problem of Amiga-related computing on the move.

With up to 4.0 most room one set or loadcrees and or course unfirmed life via the mains adaptor, it's hard to complain. The screen display in't back-it and as a result requires good lighting to remain usable, but it's a minor objection. If you're got a real need for what the NC can offer it's literally the only viable choice for the serious Amiga user. Highly recommended...

> NC suppliers: High street electrical retailers Price: £199

apcat software and cabling combination: Arnor Ltd Phone: 0733 68909

which will teach your child recognition and reason ing techniques.

Amiga with consummate ease. As you may see from the photograph, the

also contains a copy of Lapcat, its own proprietary

comms package developed in conjunction with Arnor

In order to make the connection to the Amiga, all

that's required is an Amiga-compatible version of Lapcat

which can either be installed or loaded into the

Unfortunately the aforesaid cable is far from standard

Once connected up, transfer is simply a matter of

ment or address book, running the Lapcat software on

for medium of your choice, whether that be simple or

parallel cable.

ware and cabling.

Play Days is also geared toward the Natio Curriculum so that your child is getting a form reaching which is going to be useful in the future

> Merlin's Maths Supplier: Europress Software Phone: 0625 859444 Price: £25.99

Play Days Supplier: Alternative Software Fax: 0977 790243



The Bug

Long gone are the days of the old plastic phallic symbol known as the joystick. Since about two years ago, the traditional design has been getting progressively stranger due to its development by the games companies.

A lot of this chopping and changing is probably due to the appearance of Megadrives and the like with their "invoads".

So what are they like, these new fangled joystick things? I laid my hands on the strangest one I could find to see if it lived up to the standards of traditional sticks.

To look at the Bug, it is downright ugly. It's an oblong shape with rounded corners and two lumps at one end where the Fire buttons protrude.
It sits in the nalm of the hand with the two Fire buttons

It sits in the palm of the hand with the two Fire buttons lined up with your middle finger and your index finger leaving the other hand free to manoeuvre the small stick which protrudes out of the top of the casing.

The Bug got a through beating with help from Kick Off II and the Aquatic Games. And loathe as I am to admit it, it did very well indeed. It's a very comfy stick and the casing seems pretty durable, plus you don't have to hunt around for a flat surface to place it on as it sits in the hand.

I found it a little too easy to move which made flight sims and the like a little hard to play. But it's an all-round good buy. I am a stickler for tradition but if the Bug is the one to supersede the old-style sticks, then good luck to it!

Supplier: Cheetah Phone: 0222 867777 Price: £14.95

RocLite Disk Drive

External floppy drives always seem to have quite a low profile in the hardware market. What people don't seem to realise is that there have been a lot of important technological advancements in the things that you stuff your disks in all day long.

One of the most recent, not to mention the most impressive, is the RocLite external flooppy drive. The first thing that his you about the RocLite is the size—the thing is like a credit card. Standing 0.7in tall, the RocLite is probably the smallest drive I've ever seen. Where do they put everything?

The next thing that caught my eye was the low power consumption which will cut down on the drain on the main power supply and so those infinitely irritating Guru Meditation messages.

Everything about the drive shouts out quality – it's very

Everything about the drive shouts out quality — it's very quiet and has a through port so you can daisy-chain drives. But by far the most intriguing aspect of the drive is the antivirus mode.

I first saw that the drive had some sort of extra feature when I had a quick look on the back of it. Instead of the usual on/off switch there were three settings. As it turns out, the extra setting is an anti-virus mode. How can a

floppy drive stop you getting viruses on your machine? Well it doesn't, it just prevents viruses like the Gadaffi virus which plays a tune on your disk drive until it burns out the motor.

Supplier: RocLite Phone: 0532 319057 Price: £66.95

Tiger Cub

Many people who would otherwise be quite interested in making music are put off by the apparent complexity of the whole process.

the whole process.

After all, computers are meant to make the creative path easier, not hinder it with compatibility problems and strange goings on which can hinder professionals, let alone the hapless home user.

It is with this fact in mind that Dr T's music software, the people as guilty of techno-overbill as anyone with their incredibly complex KCS sequencer, have released Tiger Cub – "the music program for the rest of us", in their words.

The package comes in a sensibly-sized box, which contains the three disks (the program, some samples for you to use with it, and a disk of auxiliary stuff), a registration card (send it off!) and a small and well-written instruction manual.

It requires an Amiga with at least 1Mb of memory, and does not need Midi, although it fully supports it. Basically, whether your Amiga is big or small, Midi-ed up or not, Tiger Cub will be happy working with it.

If you have no Midi, it controls the four internal sound channels — which it is still happy to control when you've got any number of other instruments plugged in as well. This means that you can use your own samples in addition to any Midi instruments you may be using. A full-related sequence, Tioper Cub's ease of use is

A fully-related sequence, may be controlled by the mouse (in stark contrast to their KCS, which stands for Keyboard Controlled Sequencer) and that every aspect is designed to look as simple as possible and operate very straightforwardly. Like I say, it's not devoid of power fea-



tures. You can print your compositions in standard musical notation and record in real-time (as you play) or step-time (by programming the notes and taking as long as you like to do it).

And there are highly intuitive and clear notes allowing you to add comments to instruments and voices, reminding you where they're used in your songs and which instrument they're played on.

But possibly the program's greatest asset is its membership of Dr T's Multi-Program Environment, or MPE.

MPE allows all of Dr T's music programs to interact with each other, and with more than 30 in the range, from synth editors to composition aids, Tiger Cob opens the door to a whole world of professional software, which you can buy as and when you feel you need or are ready for it. Tiper Cub doesn't really childrene KCS. which it must

light Cub doesn't reasy challenge KLS, which it mass be said is mare said to the experienced user. The more you use KCS, the more you tend to find that keyboard control is the easiest way of interacting with it—it's just the initial learning of the keyboard controls which hinders all but experienced users of programs like KCS, and gives Tiger Cub its strength.

At the end of the day, being a member of a family of

programs which can interact with each other will probably prove to be Tiger Cub's greatest strength. Files produced by friends, or creative-but-not-com-

Files produced by friends, or creative-but-not-computer-mad band members, can be loaded into Tiger Cub's bigger brother in the studio without trouble, and conversely professionally-produced music files can be messed with with the minimum of hassle – using Tiger Cub at home – by the less-than-qenius fratemity.

> Supplier: Silica Systems Price: £99.95 Phone: 081-309 1111

Amiga 500 external RAM upgrade

I haven't seen one of these since the Power Computing instant 2Mb add-on a few months ago. If you've got an external hard drive then memory add-ons like these can be a godsend.

To look 4t, the RAM expansion looks like a very slim

external hard drive. It slots into the DMA port on the side of your S00 just like most peripherals.

of your S00 just like most peripherals.

The version of the hardware we got was populated to 2Mb but you can upgrade the unit to anything up to 8Mb by adding SMM chips. Alternatively you can buy the unit

with as many megabytes as you wish.

A lot of people seem to be slightly baffled as to what a load of memory is useful for. Application are endless – many games will run better if you have more memory present and it comes in really handy if you're doing some-

thing like image processing, a very memory-intensive application.

We linked it up with a GVP hard drive and had a bit of

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trouble fitting the 500 on the desk afterwards, but no board there is a plate hiding the through port which

I was quite baffled as to the significance of the LED on the front of the casing. It seems to be an access light like you have on hard drives to tell when the drive is

You shouldn't have to worry about the power drain RAM expansion using an external power supply. It's definitely worth a look if you are having problems with lack of clout in your 500.



1200 Hard Drive

Unlike the 500, the new Amiga 1200 really cannot fulfil drive. But there aren't that many around but here at the AC offices we think we've got our hands on one of the

Trying to use the new A1200 Amiga without a hard drive is pretty laborious to say the least, but which one and what size? Well, first things first - you can only fit an IDE-controlled hard drive to the A1200 at the moment, but there several companies rushing to produce a SCSI interface for it.

IDE hard drives come in several different sizes from around 20Mb upwards but it's best to start with 60Mb at least, as 20 or 40Mb hard disks will soon be full, especially if you intend to do any graphical work with your

The A1200 has a holder internally fitted for its hard drive, although if you fit it yourself you will invalidate drive fitted by a Commodore-approved dealer. Since the A1200 came out, quite a few companies

machine. Most reputable companies are offering a fityour warranty, and is definitely something to consider. will be supplied with the drive itself, a connecting cable and a instruction book on how to install the drive.

Even though this procedure invalidates your warranty, the job of fitting a drive is quite simple. To start, disconnect all cables from your machine, turn it upsidedown and remove all the case screw.

Then turn your machine the right way up and gently remove the case. You will now be able to see the caddy on the left-hand side of the A1200 which holds the drive - remove this.

The next part is slightly more tricky, as you have to remove the metal screening which covers your A1200 circuit board. To do this you have to bend the little tabs which hold the casing in place until they are vertical, remove the two screws which hold the floppy disk drive in place, then unplug and remove the floppy Now you should be able to pull the metal shield

straight upwards to remove it. Once you have your A1200 stripped down you should be able to see a double row of parallel pins on the lefthand side of the circuit board - this is the IDE connector to which you connect the ribbon cable which was supplied with your drive.

You then have to thread the cable through the metal bend the tabs back to their original position

Replace the floorly drive and then screw the hard drive to the caddy and replace it. Now simply connect the cable to the hard drive and finish off rebuilding your

Now you have the hard drive installed you have to prepare it to hold your information. This would have been a We at AC had to use the install software from the

A4000 Amiga. This can be tricky as when you run the program it is supposed to tell you all the information about the drive you have fitted, but when we tried it the drive installed was a SCSI and not an IDE

This appears to be a software problem and is easy to overcome. When the software returns the information about your drive you can simple press the prep button

Once you have prepped your drive you then have to reset your A1200 and load Workbench from floppy, highlighting the HDO: icon and selecting Format from the

Once formatted you should be able to boot straight from your hard drive, when you've copied WorkBench to

MBX1200

The MBX1200 is one of the first FPU/memory boards available for the A1200. An FPU is basically a co-processor which is a chip specially designed to relieve the main proprocessor to get on with other things The FPU in this board is designed to run at 14.7MHz

which is the same speed as the A1200, but because the chip is specially designed for calculations it is capable of faster and more accurate maths. It is fitted with a Motorola 68881 but if you wish you can install a 68882.

in either 2, 4 or 8Mb capacities. Thirty-two-bit SIMMs are

100 hors 100 hors

quite expensive so it's better to get the memory with the hoard as this works out cheaper than buying it at a later stage

The board we tried had 4Mb of SIMMs fitted with a speed rating of 70ns. Fitting the MBX1200 is a simple job of turning your machine upside-down and removing the tran door then carefully slotting the MBX board on to the edge connector inside the A1200

This procedure does not invalidate your warranty as you don't have to open the case of your machine.

Once fitted you wouldn't know it was there apart from need to install any software or make any hardware alterations to your machine as when the board is fitted your

One of the first things you notice when you reboot your machine after installing the board is the sudden annearance of lots of memory displayed at the top of your On standard Workbench stuff the FPU makes little dif-

ference, but try loading a ray tracing package and then watch it go. We did some speed tests with the board installed and

also without it the results speak for themselves. The software we used was Amiga Intuition-Based Benchmarks v5.5. When doing these types of test you also have to consider the speed of the memory chips install as these can make quite a difference

The first test involved ray tracing a multicoloured beach opposed to 50.24 seconds with the board installed. Next was EMath test this took 40.91 seconds without

and 6.92 seconds with. Finally we tried the FTrace test which took 231.73 seconds without and 8.17 seconds On the FTrace test the time with the FPU was a stagger-

ing 56 times faster than a standard A500, although this is only on maths-intensive work. As far as we could tell the board didn't give any incompatibility problems. The conclusion is - if you do any type of work which

involves your processor doing overtime, it's well worth a

Supplier: ZCL one: 0543 414817 Price: 4Mb - £299 8Mb - £399



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Protext 5.5

For long the Amiga's premier wordprocessor, Protext is still the most powerful, though lacking many of the features found in wysiwyg packages.

Procest is fast, contains a powerful built-in macro and command language, can produce invoices using its line drawing mode, and has many of the features you'll only otherwise find in a PC package, such as suco numbering and self-incrementing variables. For hudgess users it is the only choice.

Disadvantages include its limited display (definitely not wysiwyg), its less than completely friendly interface, lack of graphics support, and overall complexity, so it is perhaps not the ideal choice for home users.

Ideal uses for Protext include invoicing, mall-outs (due to its powerful mail merging options), and the rapid generation of huge amounts of text (its simple display lends it the fastest typing speed of all Amiga WPs).



Wordworth v2 Another British-produced program, Wordworth is a smooth.

user-friendly wordprocessor with fewer power features than Protest but super-6 document design options and a finished output that's better than most. Wordworth is one of the easiest WPs with which to gener-

ace PostScript documents, as it has full support for the standard and is supplied with 17 superb Agfa fonts.

It also comes complete with support for 140 individual print-

ers, enabling full control of built-in printer fonts from within a document. The spell checker and thessurus used is the Collins Linguibate (as used by Protext), so British spellings are the order of the day. Both work very well.

The program's dissolvantages are that it can be memory hun-

gry, offers no macro facility, and can sometimes run very slowly when memory is tight.

Not the best WP for the office, Wordworth 2 is bester

Not the best WP for the office, Wordworth 2 is better suited to the production of high quality PostScript documents including graphics.

Ideal uses for Wordworth include letter writing, important

documents which have to look just right such as CVs, simple DTP tasks (its graphic support and PostScript options give it a definite advantage), and general home correspondence.



ProWrite 3.3

Having recently been price-slashed, ProWrite is a rather attractive buy for those in need of a general purpose WF. The problem with ProWrite is that it is just that — general purpose. It is similar to Wordworth in that it is a full wysiwyg package

Software Spotlight

In the search to separate turkeys from peacocks, this month's piercing gaze falls upon the ever-popular wordprocessing market

with direct PostScript support and a lot of icons for standard functions. However, the PostScript option isn't as neatly implemented as the Digita offering, the program doesn't support built-in printer fonts, and it is slower, especially when HAMB snables are included in a document.

IAMMS graphs are included in a document.

Having said all his, Provivies in a preferrorly usable pickage,
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be very usable with a but of thought on the users' pair.

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The provision of the provision of the users' pair and usomarcially provision for one of the users' pair.

The other has been suited to the home user who prefers to a tracellar for those provision of the provision of p

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excellence! 3.0

ter at the beginning of its title, is a huge sprawling package including a 140,000 world dictionary complete with definitions, a thesaurus, garmare cheeker, and PostScript support. It sounds like great value for money, and in some ways it is, but excellence! Is in many ways over the top and suffers in the basic areas as a result.

Advanced features include the ability to use multiple columns of text in a document, PostScript support using its own versions of popular foncs, automatic contents generation (of the others, only Protext does this), and graphic support. However, text scrolling speed is poor and the program uses a

For users worried about their presentation, excellence! is a good bet as the built-in grammar checker is powerful enough to spot most of the mistakes made by amateur wordsmiths. This feature also makes excellence! a tool many teachers and parents might consider.



Final Copy II

Frocusey the most attractive towards workprocess a volun-FCII is fast, colourful, and slick. HAMB graphs and DTP are the program's forte, and it has a number of features specifically aimed as making good presentation easier. Like its predecessor, Pen Pal, the program has drawing cook

available for designing page elements from within the wordprocessor, but in line with the main competition, all AGA graphics modes are supported. Uniquely (at time of writing), FC II also displays 256 colour

Uniquely (at time of writing), FC II also displays 256 colour graphics on-screen, making it the best WP for colour printing, particularly PostScript printing, FCII's main weaknesses are in the power wordprocessing.

relis main weatnesses are in the power wordprocessing areas, where several of the more advanced features found in some other packages are missing or not as well implemented. For basic wordprocessing and superbly colourful pseudo-DTP, Final Copy II is a good bet, but don't expect to write a magnum opus with it.

> Supplier: Gordon Harw Phone: 0773 836781 Price: £99.95

Kindwords 2 and 3

Kindwords 2 was a seemingly revolutionary product on its release, as it was one of the first Amiga packages to offer wysiwyg, custom fonts for high quality printing, graphics in documents, and many other features now taken for granted in later WPs. The reality, however, is that it was very slow, likely to crash

on a 512k machine, and plagued by bugs. Recommended only for those with masochistic tendencies, Kindwords 2 should relay be allowed to die while it still has some dignity. The coup de grâce comes in the form of Kindwords 3, a

totally new product from the programmer of Wordworth. In effect, Kindwords 3 is Wordworth without the PostScript support, custom printer fonts, and many other advanced features. What the programmers left in makes Kindwords 3 a Friendly.

What the programmers left in makes Kindwords 3 a friendly, very usable WP available for a decent price. It has all the style and functionality of Wordworth even if it lacks the power features, and would serve most general home uses very well.

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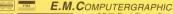
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The Digital Creations DCTV system is perhaps the ultimate compromise between the pure image quality of a true 24-bit system and the useability of the Amiga's standard display modes which formerly and still to some extent sacrifice colours for added

Unlike all the other 24-bit systems, DCTV does not employ the ultimate quality offered via an RGB signal, but rather uses the lesser talents of a composite signal with which to display its

It's here where the compromise is made with numerous swings and roundabouts of assorted advantages and drawbacks building up the overall DCTV picture - excuse the pun

On the plus side, the board's composite-only output is ideal for the average user whose creations are destined for video from the outset. Numerous packages including VistaPro, Imagine, Real 3D all

support the DCTV file format as standard and will happily render Another huge advantage for the those making their first tenta-

tive and invariably expensive steps in serious Amiga art is the file size of DCTV images As a rule, a DCTV image is roughly a tenth of the size of an equivalent 24-bit IFF. For those with limited means and storage

this alone makes DCTV an attractive option On the display side the system again scores well with a maximum colour range around the four million mark. Although this may seem rather lacking in comparison to the 16.7 of a true 24-bit display, it's more than enough for even the most demand-

ing video display. For example an image of 736 x 580 at worst would require 426,880 colours assuming, every pixel was a separate colour -

thank God that never happens

With the combination of greatly enhanced colour and its relatively minuscule file size, animation is almost inevitable. DCTV attains its amazingly small file size by emulating a hi-res 16 or eight-colour image which then has a special header appended which the hardware decodes prior to display - thereby adding

the additional colour information This decoding process is the system's only downfall during animation as it takes time to decode each image, as a result slowing

On the plus side, the alternative format of three bitplanes achieves around 25fps which is equal to that of normal video. Alas here lies another compromise as the missing bitplane means a drop in quality as the system works with an enhanced eightcolour hi-res image producing harsher transitions within graduated regions of colour.

However, even with this slight compromise, DCTV animation in three bitplanes is still very impressive and is widely accepted as the next best thing to still frame recording thanks to its combination of colour and anim speed.

In addition, the system comes with one of the better paint packages which includes the ability to make 24-bit frame grabs from freeze-framed video. All in all an excellent investment and ideal for the dedicated videographic animators.

> plier: Silica Systems none: 081 309 1111 Price: £399

Is the A1200 the ultimate budget answer to Amiga art or would existing Amiga owners be better

served by a dedicated display device? Hard Times has the answers...

ith the jaw-dropping quality of the AGA chipset; the question often asked by many is why bother with a 24-bit board when you can buy a complete machine for the

ne price or less? Well in truth it's a very valid point – for many cential buyers the heyday of the bog standard if you have 24-bit board is long gone. However, if you have certain needs a true 24-bit display can still hold the

Ingligrunium neveral areas.

Not least is compatibility with existing kit. If like me you have a range of hardware all based around old but nevertheless fast and effective equipment, replacing everything from the ground up isn't a very attractive proposition.

After all, who wants to throw away perfectly goo

If indeed as there are advantages with a stan-dalone system, what are they? After all few will ever need higher resolution and clarity than the ever need higher resoluti

faults, not least of which contern or a limitation of full and video spec screens which can be painfully slow especially in the higher Hamô resolutions. In addition, like Hamo of old the new format reacts very badly if employed as a backdrop, in other words Hamôs are pretty useless unless they're either static or part of a self-contained series of anim frames.

You cannot for example use Ham8 images as Scala or Workbench backdrops with text, ows, pointers or anims flying over them. Such ckdrops are strictly 256 colours or lower – which ckdrops are strictly 256 colours or lower – which cidentally provides a lot of scope for logo anim

ΔVideo

Like DCTV, Avideo is a compromise between cost and performance. Unlike the DCTV, Avideo uses a true 24-bit RGB display which means much sharper images than ever could be achieved via its composite-only counterpart.

To the credit of the Avideo system it was one of the first boards to attempt full integration into the overall Amiga environmers. For example it allows the display of the board to be used as a backdrop into which standard Amiga displays can be

For multimedia applications this can be of vital importance as programs such as Scala can be overlaid over a vastly enhanced background. Alternatively animation can benefit as standard Arriga anims can be employed above the backdrop with equal

In addition Avideo will accept the services of a genlock to further glam up your creations. As if that's not all, the board also boasts TVPaint 1.8, which is widely regarded as the best

paint package on any board With all the above and a price not much more than DCTV it all sounds a bit to good to be true, but as ever our old friend

compromise rears its ugly head Unlike power boards such as Opalvision and the Harlequin, Avideo has one quirk which blots its otherwise impressive

When animating and painting, the system operates exclusively in its 12-bit mode which means hi-res 4,096 true colours that results in a degree of quality way above that of old style lores fringe-ridden Ham, but nevertheless well below that of hi-

However although 12-bit is the working mode it is possible to jump into 24-bit for preview within TVPaint when necessary. Another limitation is that anims are strictly 12-bit which means the inevitable stepping on gradients and even worse a maximum frame rate of 15 fps in the lowest resolution and a mere 12 fps

In short, Avideo is an excellent painting environment for statics and as a platform for multimedia applications but is lacking somewhat as an animating environment.



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