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Paul Maher, adventure gunu, guides you round the trops

Beat the System

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The search for the ultimate in super fast modern technology continues

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Any font, any time, any style, the all new TypeSmith2.5 gives total fant control

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Triple your rendering speed with the ultimate in Amiga acceleration

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Kevin Kitching has all the answers

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processing top-spot. Will this tip it?

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Adam Phillips puts his body to the test with the latest in cardiovascular technology

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## Gremlin Graphics' Top Gear 2 A1200

Too Gear 2



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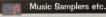
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# Bidding for their rights

WiTH all the high profile chest beating of product laden companies at the ECTS this month, it came as something of a pleasant surprise to be ushered into an exclusive hotel room on the first floor of the Holiday Inn, London for a low-key press conference.

The meeting was to discuss the future of the Amiga and the validity of Commodore UK's bid. Present, along with a host of journalists, were the

Present, along with a host of journalists, were the two key figures at Commodore UK, David Pleasance and Colin Proudfoot, ready to answer and explain a few burning issues that have been taking up so much space in recent news articles:

According to Pleasance, the UK team are still highly confident of a positive outcome for their bid. Over the weekend, the final bid has been pulled together—if'll be on the Bahamian liquidators' desk by tomorrow morning (5th September)."

what is happening with Commodore?

#### CONCLUSION

The decision makers have been given ten working days to draw a conclusion to the lengthy proceedings concerning Commodore UK's bid. If successful, the team will end up owning the rights to past, present and research and development plans for the future.

Despite the apparent organisation and efficiency of the UK bid, the process has been beset by problems in recent weeks.

The main setback has been the major inventors of components being held at a factory in the

Vital to any mass production in the future, Commodore UK has been told by the courts that the stock cannot be touched until after

What this means, in the short term, is that if successful, there will be a stock shortage of 1200s and CD32s come Christmas, no matter what happens. The only good news is that 4000s will be in ample

David Pleasance is ready to accept that the stock will be "less than originally expected. We can't sell hundreds of thousands of units because we can't make them."

As far as competition goes, Samsung and two States-based companies are the only apparent contenders in the financial boxing ring at the moment.

The Japanese giant has already made it all too

clear that it has no interest in injecting new life into Commodore but simply wants new technology to use in other areas.

Pleasance is well aware that another company of the top and the last minute but is prepared for that occurrence. The lack of competitors may suggest a lack of interest in Commodore, but Pleasance believes that it is something else: "There is a stigma round Commodore's performance (in the past) — it

has frightened people away."

If the UK bidders labours do not pay off, a future strategy has already been drawn up to polish the tarnished image of the once great company.

#### NAMING

First will be a name change. Computer Trade Weekly, the industry's newspaper has reported that the new company will be called Amiga International. From there, the short term plan is to "concentrate on the core business, sell current products and con-

tinue the employment of some people."

The next stage will involve discussions with dis-

tributors to draw up forecasts for the next 12 months. Bearing the results in mind, a marketing plan can be produced to maximise the company's resources.

Apparently, the team is not interested "in a quick

killing at Christmas" but instead want to cut back on all major subsidiaries and "grow organically" in the



we want to concentrate on the core business, sell current products and continue the employment of some people"

words of Proudfoot. As for the future, plans are laready in place, ready to begin if the bid goes through. The employment of new staff is of paramount importance. "There are currently 17 research and development engineers still on staff but we want to move that up to the 60 mark" commented Proudfoot.

"We also want to establish 22 people to aid the 246 software publishers in whatever they do."

The CD22 was met with, it seemed, less enthusiasm than in the past. With the oncoming wave of next generation consoles snapping at the small but well formed heels of Commodor's CD-ROM machine, Pleasance said: "the CD22 is in fairly good shape" and that competition such as Sony "does have a future in the market place."

According to the managing director, there will be 200 titles available for the CD32 come Christmas. We'll wait and see.

Christmas. We'll wait and see.
Probably the biggest news were the plans for future technology. The much speculated and often discussed AAA chipset has been dropped and replaced with designs for a RISC-based system.

One of the principal reasons for the switch is the lack of an operating system for the new defunct chipset – it would simply take too long to develop one.

#### DEVELOPMENT

The new machine will go into development straight away if the bid is accepted. Pleasance estimates the development systems will be ready in six months for the community to begin work on software and a further 12 months for it to hit the retail shelves.

refats sherves.

There are also plans to produce a high-end work station "that'll be 20-30 times faster than a 4000." The managing director is adamant though that the Amiga should be "a multimedia platform – and not just for games."

Despite concerns over the potential shortage crisis at Christmas, it would seem Commodore UK has a definite and well thought out strategy for the future of Amiga machines.

Perhaps as an indication of their confidence, the team are already planning the relaunch party to be held on 13 October. Whichever way the bidding battle swings, we'll know next month and the waiting will finally be over.



## **NEWS BRIEFS**

## Multi-platforms

With 166 exhibitions under their belt, the All Formats Computer Fairs are continuing their regular tours round the country. Covering the latest in ST, Amiga, PC ucts, a full rundown of shows can be obtained from Bruce Everiss on 0608

#### Monitor magic

idek, the makers of the popular MF-8617 Vision Master, are set to release the world's first 21 inch, full remote control colour monitor with motorised tilt and swivel base. Based around Mitsubishi's "Diatron" tube, it displays 1600\*1200 non-interlaced resolutions at 72Hz vertical refresh.

With its microprocessor control via the On-Screen Display, the user is able to adjust basic picture size and location, picture distortions such as pin cushion (barrelling effect), trapezoid (vertical parallelogram) and rastar rotation (picture twist with bezel).

Costing a healthy £1,649, the monitor can be seen at the Business Computing Exhibition in late September and Idek can be reached on 0438 745482.

#### Hirus virility

After the success of the Virus Checker Compilation Disk, Craig Holmes has launched a subscription service for Workbench 2 & 3, which provides customers with the latest Amiga anti-virus

software as soon as it is released. It is possible to subscribe to either six or 12 updates which are mailed to customers. Upon subscribing, owners are then entitled to free telephone software

Six issues cost £14 and twelve issues cost £25. However, if customers mention Amiga Computing when ordering, they are entitled to £2 off the above prices For more information, contact Craig

#### Amiga shows

For those who want to know more about the forthcoming World of Amiga show being held in mid December, information

is available on Kixx. Commodore will also have a stand at

#### the Motor Show/Future World/Ideal Home exhibition which is taking place at the NEC in Birmingham from the 18th to 30th of October.

### New Epson scanner unveiled

Continuing in its aucress with the OT science range. Epison have related the OT-6000, a 500-b, single gass colour science seemed at 17.95 Souther to related the spill-end distribution publishing science, and could have from the range being scienced, and the spill-end spill-en



Uideopilot resurfaces

After a somewhat shaky past in terms of distribution, the Videopilot, a highly rated editing system for the Amiga, has climbed out of commercial limbo, been given a new cioset and software and been picked up by Ambervane for distribution in Britain.

The Videopilot V330 enables three source players to be used with one recorder and offers VITC, LTC and

Sony RCTC time codes to aid editing accuracy The hardware also includes special effects such as three machine A/B roll plus the control of external equip-

The Videopilot costs £850 plus VAT and can be ordered via Ambervane on 0792 476076

ment like Panasonic mixing desks.

## Help group

The Samaritans have been offering emotional support to the suicidal and depressed for over 40 years but now, in a response to new technology, the charity has opened an e-

Called "Help By E-mail", the on-line service was test launched in July and proved so successful it has been set up indefinitely "During the test month we received over 200 messages

Many were from well wishers, journalists and academics but there are around 15 very desperate people as well. The need for a full launch of our service with the easier address was amply demonstrated," said Mike Haines, the Director.

To use the service, e-mail on: jo@samaritans.org and for anonymous mail, type: samaritans@anon.penet.fi. All messages will be handled in the strictest confidence.

## Crime unit cracks down on porn pirates

Following the recent discovery of pirated CD software valued at £10 million, ELSPA's crime unit headed by John Loader has recovered over 200 CD-ROM discs and writing equipment from two addresses in Manchester

The software, worth £500,000, has been examined by both ELSPA investigators and the Greater Manchester Obscene Publications Department. "Not only does illegal activity pose an enormous threat to the commercial interests of the UK's legitimate computer games software industry", stated Loader," but it highlights the increasing problem of production and distribution of illegal, pomographic software through out the

This month also saw the conviction and impris onment of two counterfeiters, Donald George Brown and David Doyle, Brown was recently found guilty of four offences relating to copyright infringement and was given three months in prison. 5,600 disks containing copied software and copying equipment were uncovered at his premises by police and ELSPA

David Doyle was found to be manufacturing counterfeit software and received a six month sentence plus a £5000 bill for court costs

If you have any information that should receive the attention of the crime unit, phone John Loader in confidence on 0386 833810.

## Internet opened up

With the super information highway starting to take shape, CompuServe have begun the testing of a new service that allows members to participate in discussions on USENET. This access should allow the user to enter thousands of discussion groups on a huge variety of differing subjects.

Once testing has been complete. CompuServe members will be able to read and contribute to the USENET News groups, "CompuServe recognises our members want to augment the wide array of CompuServe by expanding their information horizons on the Internet as well," said Charla Beaverson, Internet project manager at CompuServe.

Also recently introduced is the on-line support directory. According to CompuServe, with over 800 hardware and software companies available for consultation about anything from a printer and hard drive to a monitor and cable, the service provides a comprehensive and useful data-

\*Support Directory makes it very easy for members to get help with their hardware and software problems and make informed buying decisions," said Jim Hogan, director

For more information, contact CompuServe on 0800 289378.

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## Fractal heaven

American company, MegageM, have released the first in a series of CD disks that contain an extensive amount of fractal images. The FractalPro Image Library Volume One contains over 350 pictures plus dozens of VistaPro DEM files of fractal

The GIF and IFF files have been broken down in to a series of 16 which can be viewed as "thumbnails" on screen. 19 sets of zoom sequences are available through the user interface and the makers claim that drive and Amiga with AGA machines have been accommodated for via higher screen

In the States, the package is retailing at \$59.95 and, for further details, contact

## Objects galore

The Imagine 3D package continues to gather support with a set of object disks from Kyte Products that feature various useful creations for artists. Horses, underwater scenes and human forms are the main content of the pictures library with prices rang-

For more information, phone Steven Edwards on 0272 4008905

#### Ooky and spooky For the last two months, Creepy BBS's

Amnet has surfaced for all serious Amiga users. Offering echoes, the service has a variety of different services to inform and news and DOS help are just some of the facilities available to users. David Lascelles of Creepy BBS believes

that Amnet offers a deined and moderated network unlike Fidonet. Lascelles can be contacted via netmail on either 39:137/13.1 (Amiganet) or 2:256/503 (fidonet).

Last month, we printed an incorrect number for Ramiga International. The actual number required is 0690 770304.

## Music mayhem

To help young children to learn about the fundamentals of music, Canada-based company, WindShadow, have produced an edutainment title called " Making Music with Bertie

Made up from a set of differing exercises, the "player" can move Bertie round the screen, selecting him to play different instruments and tunes

The child is also able to learn the sound of certain musical instruments and to recognise various musical tunes: the melody, a counterpoint to the melody, an obligato accompaniment or a rhythmic accompaniment. There are also many other features on offer for the budding

According to Gordon Wilkes, President of WindShadow software: "This product is unusual in that it is easy to use for children as young as two-years old, while providing opportunities for older children to explore."

The package retails at £24.99 and can be ordered directly from Gordon Wilkes on 0101 905 836 4400.



Bertie Bunny

## Passport to Video Toaster PAL

After signing an agreement with NewTek, makers of the award winning Video Toaster, Prime Image, also based in the States, has released the Passport 4000.

The company claims that the device offers digital video signal handling capabilities such as conversion to international video standards including PAL, SECAM, PAL-M, PAL-N and NTSC 4 43 This means that all British video companies

and individuals who have been waiting for the PAL version of Video Toaster can now have access to the nower of NewTek's television stan-

The Passport 4000 also

offers time base correction and sychronisation and adds AT bus expansion slots for the Amiga 4000. "Prime Image's cus-

tomers around the world have let us know there's pent-up tremendous demand for the Video Toaster in diverse video format applications," commented Bill Hendershot, founder and president of Prime Image. "Given this demand and

given the standards conversion technology PI has pioneered, it's a natural fit for Prime Image and NewTek to work together." Passport 4000 costs \$6,750 for the basic unit

with two additional PAL input channels increasing the price by \$2,950. For more details, contact Bobbie Hendershot on 0101 408 867 6519.

## Computer comms

Portable computers are becoming more and more common place and Sector Software are set to release several packages to enable users to transfer their wordprocessed files from portables to an Amina.

Catering for the Cambridge Z88, Tandy WP2/3, and Amstrad NC 100200, the links packs retail at 25 each for the software and cable. According to the company, the utility is useful for brushing up portable-created documents with the Aniga's DTP skills and as a backup for the pottable's memory.

The links will be available in October and, for further the company of the pottable's memory.

details, phone David Batty on 0772 452414.



## Heard the latest?

Have you heard any interesting Amiga news recently? If you've picked up some hot gossip that you think we could be interested in give Adam Phillips a call now on 0625 878888.



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gies with a new "natural" ecosys-

tem modelling technique to pro-

duce dazzling, realistic landscape

Geographic Information System

database to allow it to render much

larger areas with a greater degree of detail than competing programs.

amounts of data without needing

The company claims that you

can render the entire US state of

Colorado in 90-metre square

an incredible amount of memory.

It uses on-demand object loading to allow it to render large

Word Construction Set uses a

World Construction Set. from

# World building

samples, 80 million polygons total, in 8MB of RAM Given enough time to render,

this system would even allow you to animate a continuous zoom out from a single forest clearing to a view of the entire planet. WCS will render US Geological

Service standard DEM files. (VistaPro DEM support is planned for a coming update.)

But WCS does more than just create pretty pictures. It includes a layering system and a map module that allows you to place vector objects, such as political boundaries, roads, buildings, streams, and coastlines on your image; you can also label images.

You can even load AutoCAD DXF vector objects and place them on your image. If you have a Summagraphics graphics tablet, it can be used with the mapping

The algorithmic ecosystem mapping prevents too-regular-looking distributions of trees and plants making for a more natural looking

image. You can choose between water, bare, rock, conifer, deciduous, or grass ecosystems.

Skies and backgrounds can be gradients, or you can use animated bitmap image backgrounds. WCS supports 24-bit rendering

at any resolution and aspect ratio up to 32767 x 32767 pixels (memory permitting). Fractal recursion levels can be adjusted to speed rendering, and detailed 2D trees allow you to create realistic vegetation density without taking forever to render.

The program also sports sophisticated animation features. Automatic turn-banking and lookahead features, as well as spline control of all motion parameters, allow you to easily create landscape overflights.

An interactive 3D wireframe layout display lets you preview and tweak your work: real-time motion previews are supported as well. All spline parameters can be edited using a timeline motion graph. The program is multi-threaded

USA news

Do you want to creat a place that's perfect for your needs? Denny Atkii discovers the only contende

similar to Real 3D, so you can go on and do other work while creating images or animations. The user interface is gorgeous -

it uses MUI (Magic User Interface), used in programs like the AVM voice mail system.

The program retails for \$250, but until October 30 it is available direct from the manufacturer for \$195.

Questar Productions, 1058 WCR 231/2, Brighton, Colorado 80601; phone (303) 659-4028. You can also e-mail wcsinfo@arcticus.burn-

## ASDG is history

Yes, it's true, there's no more ASDG. But don't panic, the company hasn't closed, it's just changed its name for the Taking advantage of the success of its Elastic Reality

morphing program (a souped-up version of Morph Plus for the PC, Mac, and SGI), ASDG has changed its name to Elastic Reality, Inc. Despite the name change and the success of its non-Amiga products, the company has pledged to continue to support our favourite computer.

## DKB relocates

DKB, manufacturer of the MegaChip, Multistart II arters. Now that the move is over, the company is rd at work on its new Talon graphics card. he new address to contact the company is: DKB P.O. Box 438, Wixom, Michigan 48393. The new tech nical support number is (810) 348-3755, and the com pany can now be faxed on (810) 348-3531.

## Video super

Some of the most creative forces in desktop video have now joined forces. Digital Creations, creators of Brilliance, DCTV, and the SuperGen; Progressive Image Technology, creator of peripherals for PCs and Macs; and Play, formed by a group of renegade former NewTek employees. have merged into one large company which will be known as Play Incorporated.

The President of the company will be former NewTek VP Paul Montgomery, as well as Kiki Stockhammer, video-savvy spokesperson and dream date of many an Amiga nut. Digital Creations' John Botteri will serve as CEO.

Although two-thirds of the new company is made up of ex-Amigans, the initial products will be for the IBM-compatible

## Top tip

It's not a new product, but it's news from a US company that will be welcome to folks who bought Digital Creations' Brilliance 2.0 and found that it won't work properly in a system with a Picasso II installed

To make it work, you just need to add a few Tool Types to the program icons, using the Workbench lcons/Information menu item.

> For Brilliance, add these tooltypes: SCREEN.DEPTH=5

SCREEN.HEIGHT=200

SCREEN.WIDTH=320 SCREEN.OVERSCAN=Text

SCREEN.MODEid=0x00011000 For the 24-bit TrueBrilliance version:

SCREEN.HEIGHT=200

SCREEN.OVERSCAN=Text SCREEN.MODEID=0x00011800

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Tool

ttending shows is part and parcel of almost any consumer magazine. As you'd expect, such gatherings generally follow the same format - kiss hands, shake babies, chase-up gossip, hassle for

> With this in mind, I packed a bag and headed off to Florida to attended the world's biggest computer graphics extravaganza, namely Siggraph 94. Equipped with the stiffest of stiff upper lips, I battled through glorious sunshine and on to the show.

After the ubiquitous trip to the press office, it was time to hit the stands and slip into show mode. However, it was at this point that the usual format went out the window. Within minutes I found myself answering rather than ask-

ing the questions. Even the biggest guns on the American Amiga scene were desperate for all and any news. Just prior to the event the Management buy-out rumour had hit. Now everyone previously secure in the knowledge that Samsung, Hewlett Packard or Superman would save the

day were back to square one. Obviously being one of the few limeys in the attendance I was an obvious target, but unfortunately I was as much in the dark as everybody else. After explaining as much, the conversation invariably turned to research and development. Would they continue to support the Amiga?

Amazingly enough the vast majority had no hesitation in saying yes - providing the new look Commodore could get its act together! To be honest, I fully expected the vast majority to say enough's enough, we're packing up and moving on to the PC or Macintosh.

Obviously, even the biggest names wouldn't find it easy to change direction at the drop of the hat, but it was the underlying willingness to stay with the machine that took me by surprise. The will is there, and so is the demand for machines, but as it stands there's simply no more high-end Amigas left to buy - both home According to gossip, production of A4000s

won't start until November at the earliest assuming the corporate capers are sorted out. And as far as R&D on new machines is concerned, God only knows. However there is a faint glimmer of hope. Although there's been no official announce-

ment, it appears that Commodore have doubled the wages of the engineering department

# A question of confidence



#### As time runs out all eyes look to Europe. The question is can Mr. Pleasance & Co. repair the damage inflicted by months of indecision

at West Chester R&D research facility, no doubt in an attempt to keep the remaining staff until the long-awaited announcement is made. For those waiting for the mythical A5000

with its Risc based CPU and Windows NT compatibility, I suspect it's going to be a long wait. However, one of the high points of the show was the first official look at the Raptor II and Raptor Plus rendering engines. Both units use Risc technology to bring

workstation performance to the Amiga - in particularly Lightwave. Each uses Ethernet connection to link direct

to the Amiga while operating under Windows NT as the basic OS

#### SAVIOUR

This move towards compatibility between formats could well prove the saviour of the Amiga as the premier videographic desktop platform. Another massive announcement at the show was the launch of Lightwave on both PC and SGI formats. Although seen as yet another nail in the

Amiga coffin by some, I feel it can only help the cause in the long-term. If NewTek want to maintain and develop a foot-hold in both the PC and SGI markets they'll have to work hard in the R&D department - the fruits of which will also be applied to the Amiga version. OK, the PC market may be massive but it's

the Amiga that dominates the video market, quite simply because the PC is useless for videography. They don't like, nor understand video, and to teach them costs an absolute fortune in additional hardware.

They may be fast, but will that really inspire videographers to trade their existing Amiga systems, especially when they could out render an SGI for a fraction of the price by simply adding a Raptor to their existing kit. Basically, the only thing that will kill the Amiga off is Commodore. The willingness to develop and buy the machine is there. All they have to do is get in gear before it's too

If this farcical situation isn't sorted out soon many developers will be forced to look elsewhere, whether they want to or not.

The future of the Amiga hinges on one key factor. If the new look Commodore can't get the range back in manufacture before Christmas it looks very grim.

Fortunately the likelihood of the Commodore bid being accepted seems more and more certain. According to a reliable source, a manufacturing deal is already in place to start production of the entire range in mainland China, while R&D will remain at West Chester.

Lets hope the red tape is kept to a minimum and the announcement made so we can all get back to business.

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Bargain backdrops

Fuer wished you could create professional nresentations without spending a fortune on the software ? Gareth Lofthouse finds aut if Pro-fills offers a solution.

he idea behind Pro-fills is very simple. It offers a range of attractive patterns and textures that can be used to enhance video and desktop presentations, and gives the user the opportunity to design mell perhaps, but used with other utilities it gives scope for some impressive effects.

The first bit of good news is that you don't need a super-fast Amiga to use the package. A full range of Amiga resolutions is available lisinging from low to high) allowing the user to choose an option that suits their needs and the speed of their machine.

Similarly, there is a choice between eight and 16 colour palettes, a useful point since the Amiga will move images with an eight colour palette more quickly than with the latter.

0+

int.

- bit

Luckily for European users, this American package can be configured for PAL as well as NTSL. Another basic but important point is mat it comes with an option to install and

assign the program into a hard-drive. When booted, the user is presented with a drab but functional control menu from which to generate and save an impressive range of

backdrops quickly and easily. There is also support for overscan in a number of settings, an important addition if the owner wants to use Pro-fills for video

applications The quality of the backgrounds is generally of a good standard with some detailed shading, and with three disks to choose from there

should be more than enough choice for most Patterns range from simple brick tiles and weaves to sandstone or wood-like effects, all boasting fully interchangeable palettes. This is one reason why, with a bit of experimentation, it becomes clear that the simple control box

distributors claim that the Pro-fills package can generate 34,625 backgrounds at a maximum resolution of 10,240 by 10,240.

Having said this, other packages offer backdrops that are more visually impressive. However, these tend to use up huge chunks of memory while at the same time costing a great deal more

The point about Pro-fills by comparison is that each backdrop brush takes only a minigram gives an estimation of the memory that a but well considered touch.

Of course, the possibilities offered by Profills come to life when it is used in conjunction with other utilities. Pro-fills is particularly good value because you can use it with packages ate customised effects.

For instance, you can generate your own brushes in D-Paint, though you may have to adjust your palette - taking care you leave

enough colours for your text and logos. For people who own presentation software like Scala or MediaPoint, Pro-

accessory. Purchasers should be able to use the package to good effect for all kinds of multimedia and video applications. Amigas are already being widely used for multiThe Control Re sn't exactly fill you with ement, does

it? Still, all the there in an easy to-use interface



media and presentation purposes, so there should be a high level of demand for a package that can deliver the goods at a bargain Considering the minimal amount of mem-

ory required, the range of possibilities are surprisingly good. What's more, it makes of Amigas both old and new It's a humble package that doesn't offer the

flashy effects available with other, more expensive utilities, but it does its job well because its makers have been thoughtful in

Used imaginatively. Pro-fills could be invaluable when it comes to presention. Mediascape deserve credit for coming up with a modest but capable little package Highly recommended.

## belies the package's versatility. In fact, the How does it work



## The bottom line

Product: Pro-fills Supplier: Meridian Software. Price: Approx. £47.95 per volume. Tel: 0533 863501

Ease of use Implementation Value for money Overall

8

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backdrops wide range of You can pick though your scheme may be less garis

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## De-archiving applications - Workbench 2.0 and above

Always boot from your CoverDisk when degrams can be located via the install icon with the appropriate name in the WB 283 Only drawer. The de-archiving procedure has been

much improved and now combines the power of the official Commodore installer program with that of Workbench 2.0 and 3.0.

The installer program is designed to be powerful yet simple for the beginner and features a user-friendly interface allowing you to de-archive programs with a minimum amount of fuss. The installer programs for Workbench 2 and 3 users can be located via

the icons named:

To run, simply double click on the icon which will load up the installer program.

#### Using the installer

longre the buttons that appear when the installer program boots up and simply click on the Proceed button. The program will then copy the necessary files to RAM.

Once this has finished it will inform you that it is about to format a disk in DFO. Click



nply click on the Proceed button

WB 1.3 Only drawer.

eg:

blank disk at the prompt and before pressing



on Proceed, at which point you will be told to insert a blank disk ready for formatting. Once you have clicked on Proceed, the installer will indicate that it is formatting the disk in DEO. When this has finished, click on Proceed again to start the de-archiving procedure. When the application has been de-archived you will be told where the dearchived files are. Click once again on Proceed to finish.

If at any time you are unsure as to whether you want to continue installing, you can click on the Abort Install button

Occasionally, utilities may need to add instructions to your User-Startup file located in the S directory so that they will function correctly. If you want to add the instructions, click on Proceed when prompted.

De-archiving applications -

blank disk(s). You will then be asked to insert a disk to

## Markhenth 13

Installing utilities

You should first run the MakeUtilitiesDisk, 1.3 to format

a blank disk called ACUtilities which will be used to

This disk can be used with future CoverDisk utilities

To install any utilities, boot your machine with your

CoverDisk inserted in DF0. Utilities can be installed by

clicking on their install icon found in the appropriate

drawer in the WB\_1.3\_Only drawer. You cannot specify

their destination and any additions to the Startup-

When installed the utilities are copied to a drawer called ACUtils on the ACUtilities disk.

until it becomes full. The MakeUtilitiesDisk1.3 program

store any utilities you eventually install

Sequence must be done manually

will be a permanent feature of the CoverDisk

be formatted into DF0 and either press y to continue or n to abort. Provided you answer y, the disk you insert will be

Always boot from your CoverDisk when de-archiving applications. The installer programs can be located via the install icon with the appropriate name in the

formatted and the application de-archived.

When you load up the 1.3 installer the program will first prepare itself ready to de-archive the program to a

Install[program name]\_1.3



CoverDisk pages.

The Files drawer con tains all the utilities set up so that you can use them from the CoverDisk, A Games drawer is also provided so that you can play these immediately. If you want to install the games make sure you copy all the necessary files across as listed in the



The Amiga Computing CoverDisk is designed to be as simple to use as possible. Follow these instructions and unu'll he un and running in no time!

#### Installing utilities

The procedure for installing utilities is much the same as installing applications, except that you can boot from your hard drive or Workbench disk. As utilities don't need to be de-archived, you are asked to specify a disk where you would like to install them.

If you don't want to install to the default directory you can change it by clicking on Change Destination. The Show Drives button will allow you to select a new device and directory. You can create a new drawer for your utility to go in by clicking on the Make New Drawer button and typing in the name.

You can also make a utilities disk by running the MakeUtilitiesDisk1.3 program located in the WB 1,3 only drawer and installing your utilities to here. At times you may be asked if you want to install a utility's documentation. A tick box indicates that the documentation is selected for inclusion, but you can click on the box to ignore it or simply click on the Skip This Part button. The utility installer programs can be found

in the appropriate program drawer in the WB 283 Only drawer. Smile you like to implay the Accountation for

easily install documents and drawer thanks user-friendly





Enjay our exclusive orpuipui of juhat promises to be the most feature-nacked and user-friendly text editor on the Amiga -

# THECover Disks

# Give your text the Edge

Edge 2.0 is a configurable



ext editors have always been popular with Amiga owners who want to dabble with ARexx. AmigaDOS the most popular program has always been Cygnus Ed.

INOVAtronics, creators of the excellent Directory OPus, truly believe that Edge 2.0 has Cygnus Ed on the ropes and as an plying you with an exclusive sneak preview of the package with limited

Before we start, the limitations are that text files are restricted to 32k (large for a text file), the new Toolbar feature is disabled, the configuration cannot be saved and there is a three-month timer that will disable Edge 2.0 after December 15th

# Batch Parturu

Now you can really let your Amiga do the work with our exclusive look at Premiere Uision's excellent Batch Factory

ter control program that will allow you to perform certain is on multiple files while you get

h Factory uses ARexx to perform actions, but don't worry, Merlin's are have kindly supplied several written scripts which you can use with various applications including ImageFX, ADPro and even AmigaDOS The full package contains many more

select the directory which contains the files you want to work on When you have clicked on an

The power to

appropriate device the files contained therein will be displayed in the tory window, just below the source From here you can select the files you want to work simply by clicking or them. To indicate which ones have

When you first load Batch Factory you

will be presented with the main screfrom which all actions take place. The source window is situated at the top-left of the screen and it is here that you

been selected, Batch Factory will display your chosen files in the file list winds the large area in the middle of the Now that you have chosen the file you

ARexx script to work on the files Click and hold the right mouse button and select Select a Script from the Select Script menu. You will then be asked it you want to perform Single scripts or Multiple scripts. Multiple allows you to



giving you plenty of time to make up your

Let's take a look at the many features of your demonstration version of Edge 2.0. When the program loads you will be presented with the main editing window. At the bottom of this window are several important variables - line number, column number, I for insert text mode or O for overstrike typing mode, K if the keypad is active, the decimal ASCII value of the character under the cursor, the number of lines, file size in bytes, number of changes, page number and page line number

Most of Edge's menus are self explana tory but you also have plenty of control over how Edge 2.0 looks, feels and works via the Settings menu. Click and hold down the right mouse button and select Settings from the top of the screen. Move down to

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You will be provided with the ConfigEdge window along with several preference topics. It is clearly obvious what these topics do but they also make up an important element in Edge's power

That is, to be able to customise the program to your own needs. Obviously you can't save the configuration file but any changes you make will remain while the

As we will be explaining Edge in much more detail next month we will cover the basic concepts of the program, including

Looking at the first menu - Project - the first three options read Clear. Open and Include. Clear will erase the current text from the page, Open will allow you to load up a text file no larger than 32k and Include will allow you to insert a chosen text file at window. The Save. Save As. Print and Print As all allow you to direct your text file to either a disk or printer. The Windows menu allows you to alter the way in which the text editing windows are displayed. All

text editing takes place in a window Edit is where you can basically cut, copy and paste selected text. If you double-click the left mouse button over a character in your text file the cursor turns black

If you click the button again, but this time hold it down and drag the mouse pointer, you will notice that the text between the pointer and the initial cursor position is highlighted in white. The highlighted section of text is referred to as a block. This means that you can cut, copy and paste large sections of text in one go.

In accordance with all the best text editors. Edge 2.0 supplies a comprehensive find and replace function appropriately enough in the Find/Replace window. This means that you can search for specific criteria and replace any occurrences with something else.

This is very useful for mailing lists or as a mail-merge facility. Another very useful addition to the Find/Replace menu is the Block to Find Buffer and Block to Replace Buffer. This allows you to select text, as explained above and copy it into either the find buffer or replace buffer. If you have

#### Loading Edge 2.0

unwanted characters in your text that are not alphabetical or numerical characters you can simply select them and copy them into the appropriate buffer rather that working round the keyboard trying to find out

Definitely a powerful addition to Edge's arsenal is its Macro facility. We will be explaining Macros in the next tutorial but basically they allow you to record a series of activated events which can then be

replayed at a later date. For example, you may want to change a text file and apply this change over all future files. You would Macro record the changes using the original file and then

replay the Macro on all the other files With the basic functions explained you should be fairly confident with Edge. There are many more exciting features to Edge 2.0 and we'll have more on these next



Edge 2.0 allows you to configure it totally. This makes Edge

## Dracess

choose several script files which will be run on the files you selected one after the other. Single indicates that you want to select only a single ARexx script. Select Single for

Once you have selected Single a file requester will appear asking you to select a script. Click on the directory labelled amiga and then on AMIGA COPY FILES.

Batch Factory will inform you of the ARexx script you have chosen, at which point you can click on Process The program will attempt to perform

the operation you have selected on the files you selected, and if all goes well a file requester will appear asking you where you want to copy the

Click on OK to select RAM, at which point Batch Factory will run through the ocessing until it has finished, at which aint you will be notified.

As this is a demo version of Batch Factory you will be limited to 15 files in one batch. Now you know how to batch files together and work on them, let's

her look at the display The Load and Save buttons allow you to load and save previously defined batches. However, as this is a demonon of Batch Factory these facilities

View will allow you to show a picture or read a text file. Simply select the file you want to view or read in the File List

fow and click on View. Delete will remove the selected file from the File List window and Clear will

clear the entire File List The Render and Loop buttons next issue of Amiga Computing. Have

## Loading Batch Factory

To install Batch Factory boot your Amiga with CoverDisk 1 and then click on the BatchFactory icon. This will decompress Batch Factory to a fresh disk which you should have ready to insert when

THE PERSON NAMED IN			100
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The WarpEngine™ uses four standard 72 pin SIMMs and allows the use of up to four different size SIMMs at the same time(4,8,16,32MB SIMMs). GVP only has two SIMM sockets onboard and uses much more expensive (up to 1.5 times as much as WarpEngine SIMMs) custom SIMM modules (only 4 or 16MB SIMMs can be used but not at the same time) which are only available

provides up to 10MB/s Transfers with 90 to 98% of the 68040 CPU Processing Power left available in your applications. All WarpEngines include the SCSI-2 HardDrive controller and 128MB of Ram Expansion, unlike GVP which SCSI module and optional management of the backets are not in our applications.

	GVP-040/40	X-Calibur	FastLane		DKB3128
				NO	NO
					.NO
					YES
					NO
					YES
				NO	YES
					YES
				YES	YES
					NO

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# ENGINI

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Lee Wilson

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op Gear 2 is the latest race game

the full power of the A1200

Gremlin have kindly supplied us with an

exclusive demo of the game in which you and a friend can race around one of the 64 different race tracks in true split-screen fashion. Strap yourselves in 'cause here we go. When Top Gear 2 has loaded you will be

presented with the main options screen. From here you can select the amount of players, one or two and select your driving where you'll actually compete over the pro-

Once you have chosen the amount of players, select Options and you will be able to alter certain parameters regarding how

There is no sound in this demo but you

With the correct players and options set, select Race Game in order to make your

way to the grid. The next screen will allow

you to enter names for players, change the

gear controls between manual and automat-

ic and choose between MPH or KPH for the

With your preferences chosen, click on

All the information you will need in order to

Race and you will be shown the course infor-

mation. This particular course is a qualifier

prepare for the race is present, including

can bump up the skill levels of the other dri-

vers, making the challenge harder

speed indicator and race

over Auckland, Australasia.

vided circuit.

the game plays.

# Top Gear 2 - A1200

Put the nedal to the metal in this gripping and exclusive -A1200 race game from race supremos. Gremlin Graphics



## Running Top Gear 2

winning races. The more you can improve your

track length, laps, weather conditions and time allowed. Click the fire button to

The final screen before the race begins buy improved car components with the

This facility is not available in this demo but makes the full version even more tantalising. Click the fire button once more to ing is shown below that.

To the right of the screen you can see the timer counting up, a miniature map place positions, the amount of laps remaining and finally your current position in the pack.

Once you are familiar with the display, press the Help key again and at the end of the countdown press that fire button to accelerate, making sure to keep on the

As you pass other cars your new position will be indicated above your car and your co-pilot will shout out his or her approval with some appropriate and witty remark.

Before we begin racing let's take a look around the racing display. Press the Help key to pause the game. At the top left area. of the screen is the speedometer and below that the currently selected gear. Car damage is indicated on the car icon to the left of

Once you have the hang of controlling the car you may want to know about its nitro ability. Press the Space bar and the nitro will switch on, indicated by the flames coming from the exhausts.

This will greatly improve your speed but only for a limited amount of time. Be warned, you only have a limited amount of nitros and they burn fuel rapidly so use them

and the race grid positions.

Unfortunately, that's where it ends. You'll have to go out and buy the full version if you want to know what happens



our demo and fight for the too sitions in the champions



Sneed demam



## Shareware notice

Please remember that these programs have been supplied by programmers who have written this software purely for the enjoyment of

If you like a particular piece of software please respect this by registering with the programmer concerned. For a nominal fee you may even receive an updated version.

## AmiDock

AmiDock is a superb little utility which allows you to launch programs simply by clicking on the appropriate image. Implementing a very unique interface, you can create brush images for a particular application and incorporate them into the interface.

Once you have created an appropriate assign (see installation instructions) double-click the AmilDock icon and a set of pre-defined images will appear at the right-hand side of the Workbench screen.

If you click on the square gadget alongside the two arrows you will then be able to access AmiDock's menus. You will also notice that by clicking and holding down the mouse button over the square, you can drag the icons to

The Item menu allows you to add and delete new files as you wish, but you should first design an appropriate icon in your favourite paint package, grab it as a brush and save it to the drawer of your appropriate Workbench resolution —

With the brush defined you can then add the program into AmiDock. Select Add from the Edit menu and click the Load button. This will allow you to select the file – the file name will be reflected in the Name string. You then select a

TO THE OF THE REAL PROPERTY.

AmiDeck you can attach image brushes to programs and run them from the Workbench by a single click

brush for the application and also choose whether it is a CLI or Workbench program. Once you okay your settings the new program will be attached to the AmiDock interface.

#### Installation

Once you have installed AmiDock you must set up an assign in your startup-sequence or user-startup for it to work. Add the following assign:

e.g.
Assign BOCK: ACUTSLITIES:ACUTSLS/AmiDock/Ron-Interlace

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MenuStay

## MenuStay

MenuStay is a very small utility that will force the Workbench menus to stay open when you press the right mouse button. They can then be switched back off by clicking the right mouse button once again. To load MenuStay, simply double-click on the icon and to remove it do exactly the same again.

## Superluper 3.1 Author: Sebastiano Vigna Workbench 2 and above only

SuperDuper is a lightning fast disk copier and formatter that is far more efficient than the Workbench diskcopy and format routines. The program also has the ability to buffer disk contents

into RAM, which means that if you are duplicating a disk on to several other disks you only need read the source disk once.

Once you have loaded SuperDuper you will be presented with a very attractive user-interface which is divided into three sections.

The first section allows you to choose which function you want to apply to disks – whether it be copying, formatting or checking – the mid-section provides buttons to select the source and destination drives and the last section offers several modes allowing you to change the way in which the data is copied, formatted and checked. When performing an operation, you can click on the Info buttons which will display the progress of the current operation and any information that may prove useful.

You can also select preferences regarding SuperDuper's functions and storage areas by clicking the Options button and changing the buttons. These preferences can then be saved by clicking SaveCon



fast disk copier, formatter and checker yo got it. Nothing rivals SuperDupe for speed

#### UIII5WOFKBench Author: ParCon Software

Originally, DMS was written as a CLI program which when run provided the user with somewhat confusing instructions on how to actually compress and decompress disks.

Fortunately, ParCon Software has come to the res-

cue by providing a user-friendly, intuition interface for DMS which provides a series of gadgets that allow complete control over DMS, without the need for constantly referring back to the command syntax.

When you first load up DMSWorkBench you are greeted by an attractive looking interface with a series of buttons. The most useful of these buttons is Read and Write. These allow you to actually compress and decompress disks with the minimum amount of fuss.

When you click on the Read button you will be



asked for a filename and location where the eventual compressed disk file should be stored. Users of 1Mb RAM are not advised to save their DMS files to RAM.

When you have decided this, click on the Drive button to set the target drive and then on Start to begin compression.

To the right-hand side of the interface you will be able to monitor the progress of compression, including the current track being compressed and the time taken. Any errors will also be flashed.

Write works in much the same way – you select the

DMS file you wish to decompress, the disk drive you wish to decompress to and then click on Start to begin.

You can also compress and decompress high density and PC disks by clicking on the appropriately labelled button.

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t's an undeniable fact that modems are getting fast. V. Fast in fact, as this is the latest standard to which every modern user aspires

The first modem out there with this stan dard was the Supra model reviewed last issue, and this new Courier model is US Robotics answer to that, if indeed the Supra was a question.

V. Fast modems operate at 28,800 baud. an extreme turn of speed for the information hungry '90s, and a baud rate unsurpassed in the history of comms

This is double the speed of the fastest modems available, and they in turn were double the speed of the previous models. You have to ask yourself where all this is going to end?

Modems which are so fast they download the file, of any size, virtually instantly? A 2Mb download in the time it takes to click the mouse? It seems impossible now but

The modern I have next to my Amiga is seven times faster than the first modern I owned, and that was only seven years ago. If the speed of modems doubles every year or so, where will we be in another seven years? The 3,686,400 baud modern will be a reality, for sure, and probably faster still.

#### VERSATILE

The current crop of modems are fast, you got that bit right, but they also have another bunch of features to do with what modems do as well as sit there being modems

Most modems are now also fax machines, enabling users to send and receive faxes to and from their computers. No modem worth the name has anything less than fax ability

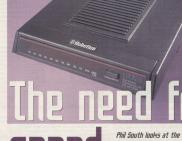
But these new modems have other features in common too. The Courier is a 28.800 baud modem, in the V. Fast class and, like many other modems of this class, is software upgradable. Special software can load itself into EPROMS in the unit to upgrade the software in the machine to a US Robotics has a BBS in the US which

carries software upgrades for the modems. It has a guick connect feature, which cuts the "training" time, like when the modem connects to a service. Usually this can rage between nine and

20 seconds with a conventional modern, but

Sexu or wot?





SDEE

with the V. Fast, when you're on, you're on. The modern not only auto adjusts its con nect rate to match the incoming signal, but also it has ASL, or adaptive speed levelling, allowing the modern to change speeds for more reliable signals while it is on-line. (Normally if you had to change rates you

had to disconnect and reconnect after you'd adjusted the speed.) It has fax ability, as both a class 1 and class 2 fax software. As yet class 2 software is only available for the Supra (if memory

serves), although it shouldn't be long until the guys at Greg Perry Software come up with a new version of GPFax to match these new machines

latest in 28.8 technology

from US Robotics

There is a button on the front of the machine which has a unique function. It is the voice/data toggle switch, and this enables you to switch from voice to data without issuing an AT command.

Although most phones allow you to use the modem and use the phone one after the other without a problem, some phone/modem combinations have a problem with handset exclusion. This enables you to switch from data to

voice and back again, as some units have a problem with that, and you may not be able to get back to data once you've switched to voice.

You can only do this when the modern is off-line. If you are on-line and you hit the voice switch, you will terminate the data line. The button also enables you to set the modem for remote access, if you want to call the modern and access your computer from a remote site.

our phone.

well at least if your phone has enough cleara

ge on top of the modem and on my phone it lifted the rubl off the surface, meaning that the phone just slid around on top hat's a petty niggle, as I usually sit a disk drive or a pot of per



PICASSO II is a graphics card with a difference, offer ing true retargetable graphics on any Zorro based Amiga. The installation is quick and simple. Just plug in the card, connect the cables and run a fully automatic install script. You will then find new Picasso resolutions program, all useable by OS friendly programs. The new CHUNKY option offers incredible speed with a 256 Workbench which is many times faster than AGA! Picasso II will intercept any program on it's first ru ferred screen choice thereafter. All screens are stored in Fast RAM, hence removing the 2Mb Chip RAM limits tion. Total screen configuration is provided through screens quickly and simply. Picasso II comes with TVPaint Junior and drivers for ImageFX, AdPro. ImageMaster, Real 3D and GIF, IFF, JPEG and MPEG

PICASSO II 2Mb With TU PRINT 2





viewers. Also included is the MainActor animation pro-

#### PABLO ENCODER

PABLO is the new Video Encoder option for Picasso II It offers the user two additional video ports, one star dard Composite Sync Signal, and one S-VHS (Y-C) be plugged into Pablo, such as a colour TV or a video being 320x256, 320x512, 640x256, 640x512 and 768x576 in all colour depths including HighColour and TrueColour! A protective circuit integrated into Pablo ensures that no modes with more than a 15KHz line frequency can be routed through Pablo so you can safely switch to higher resolutions for your normal computer display. Pablo is supplied with all cables/adapters. Animation examples and MainActor Professiona

PABLO ENCODER

#### MAINACTOR PROFESSIONAL

MainActor Professional is a modular animation package for the Amiga. It features intelligent caching, so if you don't have enough RAM you can play animations from any device i.e. play/edit/create a 400Mb animation on a 2Mb Amiga. With OS3.x you will get added speed as well as animations in a resizeable, scrollable window with colours adjusted to screen attributes. Sound sunport allows you to associate sound effects to every frame. There are animation loaders for Real-3D, IFF Anim3, IFF-AnimJ, Picasso, AVI, GIF, FLI, FLC and DL There is also an external player, MainView plus lots more. You can play all your animations directly via the Picasso II board (which fly in Chunky pixel mode!)

MRINACTOR PROFESSIONAL £ 49.95 for connecting two Amiga computers their parallel ports. Liana will work with ga's and it's network driver is completely SANA-II dard software interface for network parocols of Commodor? compatible. This means all networking packages using SAMA-II will work with Unia (e.g. Commodore's JTCP/PP package release 2 of RNO9). Liana is supplied complete with the Commodore networking package ENVOY, which offers FileSystem import and export, network printing and multi-user support together with an easy installa-tion and configuration procedure. LIBNS NETWORK



#### EMPLANT

Emplant is a very special product. It is the only hard ware that offers multiple multi-tasking emulations from a single board. Here are some of the features of Emplant.

MACINTOSH EMULATION The generic Mac emulation will perform as a Quadra

900 on a 68040 Amica, and a lici on a 68030 Amica All known software runs. The Mac emulation supports System 6.x/7.x, Hard drives, AmigaDOS partitions support includes Emplant, Amax, IBM 720K/1.44Mb, Mac 800K (via AMIA) and 1.44Mb



IBM PC FM/II ATION The new IBM module is a true 486DX cor lation, including CPU, MMU and FPU. It will support nor mal/protected modes and run Windows 3.x, DOS 6.x, OS/2, application and leisure software.

Speed is dependant upon your 68xxx processor and is gained from a combination of custom logic, software and the Amigal The emulation will offer colour VGA on AGA machines, and colour SVGA with a supported graphics card such as Picasso II. SoundBlaster Pro upport is built in too. Please call for availability

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For A600 & A1200 PhotoWorX + CD1200 controller + Mitsumi FX 001D



#### X-CALIBUR

X-CALIBUR is a uniquely designed accelerator and RAM expansion piggy back unit for the A4000/040 which does not use a precious Zorro slot, it has the capacity to hold on-board 128Mb of SIMMS (Standard 72-pin type as found on the A4000). With it's innovative memory design, the X-Calibur out performs the regular A4000/040 memory access by 400% at 25MHz! This translates to an average of (only Fast RAM) and gain the speed instantly. Faster upgrades (40MHz and a 68060 version) are planned in the future. Fitting service available. Fully compatible with Emplant for a world beating Mac/IBM emulation engine! N-CALIBUR

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TEL: 0908 220196 FAX: 0908 220196 BBS: 0908 310208 Internet on : paul@bsoft.demon.co.uk PAP NEXT DAY \$8.00 CREDIT CARD ORDERS ATTRACT A 2.5% CHARGE, EAGE s marry of my friends will tell you, I am pretly disorganised in life. Sure, I like neathese, but I'd rather someone else took care of it for me. I'm the sort of person who only does the washing up seen there are no more clean plates.

But on my machine I'm as strict as a drill sargeant. I know where to find every file on my machine and nothing gets introduced to my machine unless I know where it should be put.

Louiess this tidness is an obsession made.

wrise by the number of machines I tend to mat are completely disorganised. Amiga ceners have it easy in a number of way; I po into later, but they seem the worst of the bunch most of the time. I've visited clients and not been even able

Eve visited clients and not been even able to put stuff on their machine because I don't snow where it should go, and worse still, neimer did they!

ther did they!

Hopefully this article should be able to help anyone with a hard drive-equipped Amiga to be a little tider with very little effort (and make

my job easier to boot!).

Firstly, many of you reading this article know little about AmigaDOS and care less. That's okay, you don't need to know. For those interested there is a boxout detailing all hose different directories that come as standard on every Amiga, but for the rest of you, rest easy.

I'm not going to get you to write AmigaDOS scripts or ask you to remember obscure shell commands. Well, you might need to type in a couple of sentences, but

that's all.

The first way that the Amiga beats the PC and Macintosh lies in the assign command. This allows you to get access to the files you want ouickly and easily.

Say you do a lot of graphics work, pictures, animations, brushes and so on. Wouldn't it be easy if, instead of having to go through all the different drawers of your hard drive picking files here and there, you could have them all in one piace, easily accessible from any program that needs them? Wei, it is is easy. All you need to do is make an assign. The way to make an assign is to create a drawer on your hard drive called, for the sake of argument, Bitmaps.

Done that? Okay then, now all you need to do to assign that drawer is to open a shell window and type:

Assign Bitmaps: \*\*\*\*:Bitmaps

where """ represents the name of the hard drive where you put the Bitmaps drawer. Now if you go into any paint, image processing or animation

In the best of health

Files not found,

drives and cryptic messages. Do any

of these sound

familiar?

Frank Nord dons

his white coat

40Ur Amiga

Amiga Computing

3

program and hit the Volumes button when you use the file requester you should see Ritmans: in the list.

The best thing of all is it will take the same amount of mouse clicks to reach no matter where it is on you hard drive. The only problem is that when you reboot there won't be a "bitmaps; assign" again unless you retype it in the Shell.

I'm sure you don't really want to have to do that, so the best way around it is to edit the User-Startup file. To do so just open a Shall window - I won't get you to do this much more. I promise - and type:

Once you have hit the return key a new

- Bitmaps: for pictures
- Brushes:for brushes (you might want to
- put these in Bitmaps instead, seeing as
- they are pictures in their own right) nencessed letters
- Text: for ASCII text files
- WP- for word processed files
- Sheets: for spreadsheet files
- Downloads: for Comms, to put all your
- . Uploads: same again for files for uploading. You might even want to separate the files another way, say Homework:

Table I

#### that it will have some text in it already. Just move the cursor down to the bottom of the file and add the "Assign Bitmaps:"

You might end

un searching

through an enormous list of

assions to try and find the

me uni iiant

line we already tried. While you're in there you might want to add some more assigns. Table I shows you some to get you started Whatever is simplest usually works best.

window should open up. It might say at the

bottom "Creating new file" if you haven't

had your Amina long, but the chances are

After all, you might end up searching through an enormous list of assigns to try and find the one you want, which rather defeats the object of the whole exercise. Now, every time you boot your machine

you will have all those convenient assigns. The location of the drawer is unimportant because you will never have to search through the normal route to reach it - no more DH1:OtherStuff/Things/wossna mes/newhits/DPaint/Pictures

#### PARTITIONS

By the way, before you reboot to take advantage of all those great assigns you've just made, make sure you have created the necessary drawers for them. There now, that wasn't so painful was it? And I promise that I won't get you to use the Shell again. Onto the next phase in reorganisation.

This is a bit of a two-parter. The first bit is standard to any Amiga, First of all, let's assume most of you have the standard two partitions that hard drive-equipped Amigas

Work: for A600, A1200 and A4000 owners. If you only have one partition most of this stuff is going to be redundant, but don't stop reading. If you have loads of little partitions, what are you doing? Each partition you have chews up extra RAM and reduces the overall size of your hard drive.

## The Tools menu

In Workbench 2 there is a Tools menu at the top of your screen. If you have just bought your Amiga it is quite likely that this menu only contains the command "ResetWB"

If you've had your machine for longer you might have already got either ToolManager, ToolsDaemon or one of the other Tools menu utilities in your WBStart in drawer

These programs are commodities that allow you to out your favourite programs in the Tools menu or create new menus of your own to put your programs in. This saves all the bassle of baying to click through endless drawers trying to find the programs you want to run. I use a combination of both

ToolManager and ToolsDaemon to give

Try to keep the number of partitions to a minimum if you have a hard drive under 100MB. Even if you've got a really big drive you shouldn't need to have too many partitions. I have about 1.3GB of storage and only

have four partitions: Workbench: Work: Other: and Data:. Other: has all the stuff that can't be classified in it and games: Data: contains exactly that, pictures, anims PageStream documents, text files, etc. Workbench: has all my Workbench files and tools in it, and Work: contains all the programs I need to use to create all the The first thing is that your Workbench:

partition is really small, right? Between 5

## It's all LIBS: and DEUS:

If you are columned about all the different desemble of pages and the page columns of your wife of the page pages of the page of the page

If you are running Workbench 3 the next drawer we come to is Classes. Classes contains various items to do with running Workbench, the main ones being datatypes for use with Multiview (and any other datatype-supporting program), and quadests for object-oriented programming.

is short for devices and is inside other drewers pertaining to the various devices attached to or part of your Amiga – for instance, monitor dri-vers, printer drivers or keyboard drivers. In the many part of DEVS: there see also files; the actual device drivers themselves, estail device, partitided vice was driver serial device, partitided vice was driver and various others. If you used PartIET, you here included the partition of the partition of partitions of the partition of the partition of partitions of the partition of partitions of the partition of partitions of pa

In New Description of the Cristants.

I all blooks "helders" which are a similar to device programs. It desent have an icon because there is no point leading the problems the because there is no point leading the problems the leading to the leading the le

your Amiga more user-friendly to chums all across the globa. Next on our list of interesting places to visit on Next on our list of interesting places to visit on your Workbench disk is Prefs. This is the most used drawer on many people's hard drive as they choose all sorts of garish patterns for Workbench backdrops, change their forts for menus and cons. or show people how silly a mouse pointer they can crede.

me programs in the Tools menu and seven other man a including Profs: which has all the preferences programs in it, and Graphics; which has all my paint and animation tools, including a sub-menu for 3D programs that I use regularly.

One of the nicest things about both these programs is that you don't have to type anything in to get your organis running - all you have to do is drag the icon for the program you want to run into the ToolManager or ToolsDaemon window and that's it.

e ius

give

etc

files

as an added horus for ToolManager users, it is possible to create a dock window or place icons on s that The Workhench screen. The dock can be spread horicontaily or vertically and can have its items duplicated Finally, a couple of tips for using these programs.

Make sure you pay careful attention to the "Work Directory:" setting in ToolManager. If you are using a program that only uses one sort of file, text say, then you can set the "WorkDirectory:" to your Text: assign. This means that when you load up your text editor

and 8MB? Well, that's just not big enough if scripts and Tools is it? The only way to get around it is to move

all those files elsewhere, or to limit what you out on your hard drive. Now, I don't believe in limiting myself, so I'd rather go for the former than the latter, but it's up to you. stuff

And I know I promised not to have to make you use the Shell again, but if you want your machine to be in tip-top condition

So, open a Shell window and type.

and hit return. This time there should definitely be some text extant in the file. Now look out for the bit where all the assigns crop up. There should be one for FONTS:, one for REXX: and a path statement for

directory

Ber (WB) "Werktfultimedia/ImageTool |

Add Debrie Invest [] ME

Whether you choose Toolmanager or ToolsDaemon (or both), they will certainly speed up Workbench operation

# V | 84

ruit ét

from the menu, whenever you open a file the file

requester will automatically start in your Text:

With ToolsDaemon you can actually perform more

than one action with a single menu click. By entering

items manually in the right-hand window of

Tools We'll deal with the REXX: assign first as it's the easiest. Simply change the line to read:

where \*\*\*\* is the name of your larger hard drive partition. This actually helps in more ways than one

Firstly, it will stop your Workbench partition from getting clogged up and secondly

340 15

ToolsDaemon you can build up a list of events that

assigned it.

You might want to change screenmode and your

mouse pointer at the same time, or make an assign only when you run a particular program. It's very easy

> you might have noticed that, by default REXX: is assigned to S: Well. S: is where your startup-sequence,

user-startup and other similar files are located and if you end up with umpteen ARexx scripts in the same drawer it's going to make it tough to find your user-startup when you want it Again do remember to create the ARexx drawer where you have

The part of the startup-sequence where FONTS: are assigned looks a little more complex what with all the "If exists" statements, but they don't really matter. Just cut

IF NOT EXISTS SYS: Fonts Assien FONTS: EndIF

Scient To Sileging out of Rexce we drop hurriedly into Sc. Sis for scripts and that is what we find in here. The two main inhabitants are the Startup-The two main inhabitants are the Startup-The two main inhabitants are the Startup-The Startup-Th



temporary fines exacted by some program or other than beared them cleaned up, which because the exception cannot be exception of the exception

and replace them with this line:

where \*\*\*\* is the name of your larger hard

Okay that's that sorted Did you make the fonts drawer? The last part of messing with the startup-sequence deals with the nath statement for Tools

This is slightly less important than dealing with the assigns, especially if you never use the Shell. However, just for completeness sake, if you are going to make Work: the new home for your Tools drawer, simply change the path statement

Park SMIL: RAM: C: STS:Stillities SYS:Reyro SYS:System S: SYS:Prefs STS:WBStartup SYS:Tools

Path MIL: RAM: C: SYS:Utilities SYS:Resuc SYS:System S: SYS:Prefs SYS:WBStartup Work:Tools

Right, now that we've done all this editing we're half-way to a better system. Did I only say half-way? Yes, because unless you've been doing stuff behind my back you haven't yet copied all the files you need into the new locations we've been

So now just transfer all your fonts to your new font drawer, all your ARexx scripts to your ARexx drawer (this one might be tougher as you'll have to be able to tell the difference between an ARexx script and an ordinary AmigaDOS script. The easiest way to work it out is that ARexx scripts always start with the characters /\*

You should also take some time moving all your pictures, text files, spreadsheets, and so on into the new assigned drawers

#### MANAGEMENT

If you are sitting there right now wondering how on earth you are going to do all this file moving you obviously don't have any sort of file management program.

If you don't, shame on you. Uncle Frank's rule number one: If you've got a hard drive, you need a file management program. There are plenty of them out there some are free and others cost dosh and I've listed a few of each in a boxout

Go to it. Once you have finished moving all the files around that you need you should be ready for a reboot. You should now have a hard drive that isn't difficult to navigate, and as long as you continue to use the Bitmaps: drawer for all your pictures, the Docs: drawer for all your DTP files, and the WP: drawer for all your letters you should find life with your Amiga more productive and even easier than

#### New huttons

Customising your file manager is one of the most profitable things you can do productivity-wise. Being able to achieve complex operations like de-archiving or editing startup-sequences at the touch of a single button or menu item will save you an awful lot of time in the long run, at the expense of a little tinkering

For instance, now that we have set up all those assigns in our User-startup. wouldn't it be nice to make them easy to get at in Directory Opus?

Nothing could be simpler. Go into the configure program and click on the Buttons icon. Find an empty button and

This should bring up the Button Edit screen. In here you should give your button a name, which should be the assign (let's assume we are working on a Bitmaps: assign, so call the button Bitmaps:), then where you enter what that button does, add the

command:

Backup software - I know backing up's a

drag and seems like a waste of time and

disks, but it is a good idea to at least make a backup prior to changing the status of

your hard drive, repartitioning it for instance.

Backup software available includes:

and hit return. That command should now appear in the command list. Next, hit OK and carry on making as many new buttons as you need.

If you are using a recent revision of Directory Opus, you can actually put two commands on a single button by using either the left or right mouse button to select it which will double up the number of assigns you can comfortably fit on your Dopus screen.

DiskMaster owners don't have it so good in this regard. I can't seem to create the Cmd Menu commands to get the same functionality, but never

With DiskMaster, however, you can arrange matters so that every time you load DiskMaster it will have the same directory list up as the last time you

The only caveat with this method is that you should keep a backup of your Startup.DM file in case you do something wrong, guit and it gets saved that way

All you need do now is edit the startup.dm file and where the Quit menu item is you should change it so that the line reads:

You might also want to put the following line in after

#### **HNTools** To complement the list of useful commodities elsewhere on these pages, here are some useful, if not essential, hard drive utilities. You should definitely have at least one Filest Firm Microsofts in each of the following categories, both on your hard drive and on floppy should your

This partition hardly poeds ontimisation . HDBackup: free with hard drive-based

Amigas. Not very good, but will do at a · Quarterback: Getting better all the time. Now up to version 6 and can at last do multistreamers is very good with excellent back-

· Ami-Back: My choice of backup software multiple backups and comes with a sched uler to give you reminders of when to back up your hard drive, and which will perform that backup automatically if desired.

Utility software - This section includes optimisation, file recovery, crashed disk recovery and disk wiping. Ami-Back Tools - Companion to Ami-Back

this program handles all the categories mentioned and can also save Rigid Disk Block

information in a file Upper Disk Tools - A novel idea and beautifully executed, Upper Disk Tools uses the

**Lustomising** unur file manappr is one of the most profitable things unu can

do ... nondurficifu...uisa

backing up to tape



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This is just a very small sample of the cus misation that can be done with these morams. Other suggestions would be to links for either program to be able show AmigaGuide documents, show F PCX and Jpeg pictures or display

Making a button to let me get at this taxt file earle



Device metaphor to create a new device and acts like a hard drive and can be med to recover lost files or reorganise

DiskSalv - By Dave Haynie, an exmodore member of staff and all round med egg. DiskSalv is a shareware prodpurely for the recovery of files. It does good job of it and is actually faster Ami-Back Tools at bringing loved

Duarterback Tools Deluxe - A much meded update to the original Quarterback lasis which was first released, if memory mes, in 1989. This shares the "New \*unizons" look and feel of Quarterback and adds encryption to the list of useful

\*CToolbox - Commodore's own brand and drive installation software. The newer missions bundled with Workbench 2.04 and up can also be used with other peoand hard drive controllers. By simply aiding the following tooltype to the icon, meners of GVP. IVS and other manufacwer's controllers can use it:

SEST DEVICE NAMES+\*\*\*

\*\*\* is the name of the device driver = DEVS: ie. gvpscsi.device RDPrep: A freely distributable hard drive installa-

tool written by Microbotics to allow people with A1200s to buy a hard drive at water date and be able to install it without requiring Commodore's software. The sale is very comprehensive, if a little confusing at times.

## Other tools

Here are some of my favourite time-saying commodities. You might not want to use them all if your machine is lacking in memory, drive space or processor power.

ARO - This makes Workbench look a lot prettier with animated requesters popping up centre screen rather than in the top lefthand comer. You can also use the Return key for OK and the Esc key for Cancel. AssignX - Ever get those annoving requesters popping up saving "Please insert volume blah in any drive ...?" AssignX gives you new options apart from Retry and Cancel. The most important is Assign. Hitting this button will bring up a

file requester allowing you to assign volume Blah to whatever directory you ClickToFront - One of the only Commodore-supplied commodities that I use, it is at its most useful when you change the tooltype to read: "QUALIFI-ER=NONE". This way, double-clicking on

a window will bring it to the front of the stack. CycleToMenu2 - This changes cycle gadgets into those nifty little pop-up menus you see on other machines

FOCO - or Format Controller. With this commodity installed, inserting an unformatted floppy into a drive will bring up a requester asking if you wish to format it. FOCO's only downside is that it doesn't offer a facility to format DCFS disks.

MagicMenu - This terrific tool lets you use your right mouse button to bring up menus anywhere on the screen.

MFR - Magic File Requester is just that, If a program uses the standard ASL file requester, Reg or RegTools requesters, MFR replaces them with its own. MFR has customisable positioning, fonts and even scrollbars, but its most useful feature is the ability to delete or rename files and make directories while its window is open

Swazinfo - Only for users of Workbench 3 and up. It replaces the normal icon information window with a much better one. giving drag and drop facilities for changing the icon image, networking ownership bits (not too useful, this one) and various other features



suble with fonts in ProPage here

## Monday 22-Aug-94 17:10 (5)



#### Dame handy that TitleClock!

TitleClock - I've been waiting for this tool for a very long time. I had always seen that on other machines that didn't have the multiple screen philosophy of the Amiga, titlebar clocks were always available. Well now there's one for the Amina too. It will jump to the frontmost screen at all times and has a very configurable

ToolManager & ToolsDaemon - The best aid to productivity. Look around these pages for the boxout about them. VirusChecker - John Veldthuis VirusChecker is a program no hard drive owner should be without. It's better to be

eafo than com-Along with these commodities, a few of the Shell-based utilities I would not be

without include: KingCon - A replacement for the CON: device that gives drag and drop directory manipulation, command line history, name completion and saveable buffer,

among other benefits. InstallNewAlert - Whenever your Amiga crashes you get a red alert box with two cryptic numbers in it. One is the task that caused the crash, the other is the reason it caused the crash. InstallNewAlert gives you these facts in plain English.

FontCacheX - Got an enormous fontlist? FontcacheX puts it into RAM: so although the first time you check your fonts directory it will take the same time as normal. subsequent reads will be much swifter, in some cases almost instantaneous. A great help if you are using DPaint or changing the style of your Workbench. Move - This Shell command does exactly

what it says, it moves files (what did your expect? SnoopDOS - Don't you just hate it when

you have a program that just won't run and you can't figure out why? Well, SnoopDOS should be able to help out with problems of this sort, and as such is a necessity for all hard drive owners (especially as it is a Public Domain program) What is it? Well, as you should be able

to see from the picture. SnoopDOS resembles a shell window with current tasks scrolling upwards through it. SnoopDOS will tell you what files a program is looking for and, more importantly, will inform you if there are any failures to load or open a file. Because SnoopDOS gives a path, it means it is usually pretty easy to see where any problems you are having lie.

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Wordprocessor: Compose a letter, check your spelling with the 50,000 word dictionary, malmerge details from a database file, add graphics, was text around it, load ASCII text, highlight, with bookd, italic and underline... and more!



Graphics: Enter data directly or load from the spreadsheet







Disc Utilities: Avoid the discs, copy files from disc to disc; make directories; delete and rename files, make multiple copies of your discs...



f you use your Amiga for anything besides blasting Space Spuds from Planet Londo, then you'll appreciate the importance of quality fonts. For desktop aublishers they make the difference between mand, look-alike documents and attentionambbing designs.

Video producers require fonts that are dean enough to be read on fuzzy TV displays, but distinctive enough to grab attenton. Early versions of AmigaDOS supported anily low-resolution bitmapped fonts, which were fine for screen display (if the font hansened to come in the size you needed), but boked terribly blocky on the printed page.

AmigaDOS 2.04 and later support Compugraphic outline fonts, which can easily be resized to provide top-notch results on both the screen and printed page.

The perfect panacea for font users right? would be except that the PC and Script and TrueType, not Compugraphic, as their font formats.

Because of this, there are thousands more. amefaces available in those formats, ranging from free TrueType fonts to professional PostScript fonts that cost hundreds of rinlars.

Soft-Logik's newly upgraded TypeSmith 2.5 lets you convert both PostScript and TrueType fonts for use on the Amiga - now you can find virtually any typeface for your

TypeSmith allows you to design your own proeface and save it in any supported format. design and modification editor, although many Amigans use it primarily for font conversion, making only minor tweaks to type-

#### TRUETYPE

The biggest improvement to version 2.5 is the addition of TrueType support. TrueType is the font standard used by both the PC's Mindows 3.1 and the Macintosh's System 7. The ability to convert TrueType fonts to Compugraphic or PostScript formats gives

you access to a huge library of inexpensive TypeSmith has always supported PostScript import (Type 1) and export (Types 1 and 3). Release 2.5 features significantly better hinting for PostScript fonts.

The program will also load and save IFF DR2D drawings (allowing you to create or modify characters in a drawing program, or import clip art into a font), and load (but not save) fonts in the original PageStream font format. The program's native font format is



with total contrast via splines

# Paving



Looks familiar, but it's all change inside the software

RFF, an IFF format that allows for very fast loading and saving, but is so far only used by

You can also load and save bitmapped fonts (standard Amiga bitmaps, PostScript ABF, or Soft-Logik format), as well as Amiga IFF bitmap pictures (useful if you want to scan a printed typeface). New commands to remove unnecessary

points and correct path directions to PostScript standard are handy for both converted and traced fonts TypeSmith's font editing features aren't

changed in this version, but they were already pretty complete to begin with Using an interface similar to PageStream's, with multiple editing windows and a floating tool bar, you can load one or many fonts, and simultaneously display mul-

tiple characters from each font. You can copy, cut, and paste characters from one font to another, a feature useful for adding missing characters, such as the pound or copyright symbols, to incomplete

Outline fonts are edited using splines. You can also create and edit bitmap fonts, although TypeSmith's features are geared more for outline use

Characters can be rotated, flipped, or skewed (useful as a start for creating an italic font) individually or throughout the entire font. A help bar at the bottom of the window TupeSmith has been upgraded. Now you can use every popular font in existence. Denny Atkin reveals all

the way

always displays the function of the gadget under the mouse, making it easy to learn how to use these features.

If you want to sample your handiwork. TypeSmith allows you to print samples of your fonts. Earlier versions of the program would only print individual characters or a limited sample of the characters.

Version 2.5 will print a complete font reference sheet, with samples of all the characters printed next to their ASCII values.



Thanks to the new version you can now get a SYSTEM ESSENTIALS BLACK - Rec

TypeSmith is the only game in town when it comes to cre ing and converting outline fonts on the Amiga, so Soft-Lo; could easily have rested on their laurels and expected it

Instead, the company has taken an already good progra ad made it nearly perfect. There are still a few nits to pick stotrace could be made a bit smarter, for instance – b

If you use your Amiga for desktop publishing or video tling, this program is a must-have, as it opens the door to sing virtually every popular font in existence on your

vourite computer.
And if you own a PC or Mac along with your Amiga, or use
nemulator, you can use TypeSmith to convert typefaces, so
su can have access to the same typefaces on all the platms you use.

2.0 2 Mb Workbench Memory (\$12 k ehis) 2 Mb Memory (1M8+ chip) Hard drive

#### The bottom line Product: TypeSmith 2.5

Supplier: Soft-Logik Price: \$199.95 Tel: 314-894-3280

Ease of use Implementation. Value for money Overall

R



MEE HELPLINE SUPPORT

CREDIT & CHARGECARD

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ten Pol is compatible with any Amiga - from the A500 to the late A1200-4000 ranges with a minimum of 1Mb available free RAM Available from all good Amiga software dealers or NoftWood. Places above for a list of maximum distributions of

## SoftWood

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spent time installing additional hardware will know, actually fitting and configuring hardware can often make you wish you'r saved your money and stuck with what you I must admit after reading through the

installation procedure I had an impending feeling of disaster. In most cases, installing means removing the case and perhaps setting a few jumpers - not this time. In the case of the Warp there's few. any, jumpers to be set. However there was

the minor inconvenience of dismantling the After getting half-way through, the only thing left in the case was the motherboard

Quite literally everything else was out on the desk

#### DISMANTLING The plastic front cover was off, followed

by the floppy bay, then the hard drive and finally the original 040 daughter board. The only thing that you don't need to touch are the Zorro slots - thanks to the fact that the entire Warn assembly comes on a direct replacement for the aforementioned daugh-

slots to their own devices - no pun intended - is another bonus of the Warp Engine. Thanks to the daughter board replacement you obviously don't sacrifice a Zorro for the extra speed - and of course the on-board SCSI II controller saves even more valuable Zorros, not to

After contracting the usual case of installation rash from the razor sharp pressed steel interior of the machine, it was time to oop in the new daughter board, throw all the bits back together and boot the machine - installation disk at the ready.

checked the menu bar and all the memory had configured perfectly - things were going a little too well. What the hell, lets try

The fact that you can leave your Zorro

Surprise, surprise, it booted first time.



speeds - in some cases three times that of a standard 25MHz 040 A4000.

#### of the chip - which in the fastest Warp Engine means swapping your 25MHz chip for an 40MHz.

MONSTER

Although this would make a difference on its own, it hardly accounts for a near threefold increase in rendering times. However if you combine such a chip with DMA - direct memory access - actually on the CPU's daughter board, you have the makings of a monster.

Due to the basic design of the A4000 memory access, the motherboard of the machine doesn't even come close to filling the potential of the on-board RAM

Thanks to the Warp, the BAM being linked directly to the 68040 bus, access leans by more than a factor of four

Not surprisingly this means the Warp Engine provides jaw dropping performance. And of course there's the added bonus of a fast SCSI II controller also built directly onto the board. Add all of the above together and you have the fastest all round, none Risc-based acceleration and data transfer system on the Amiga. As anyone who's

s technology marches ever onward. even an 040 A4000 can be found wanting when it comes to rendering and using other high-end applications. As a result the race is now on to squeeze even more speed from the machine As it stands there's two schools of

thought. You can either pump up the existing technology or opt for power of Risc technology and parallel processing. Although the latter offers astonishing per-

formance, way above that of even the fastest 040 or even 060, it does have two major drawbacks, namely huge expense and very limited compatibility. We'll look at the risk options later, and

concentrate for the time being on the only approach to 040 acceleration which guarantees compatibility with almost all your existing software, while still delivering rendering





though we tested the fastest Warp configuration, there's a number of irrnatives including a 28MHz, 33MHz and 40 MHz board. If you're work 4 about upgrading, USMacroSystems claims it's possible to upgrade mobil the 28MHz and 33MHz to the 40MHz very easily. It's also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed that the standard board will be compatible with 060 or 18 also claimed the standard board will be compatible with 060 or 18 also claimed the standard board will be compatible with 060 or 18 also claimed the standard board will be compatible with 060 or 18 also claimed the standard will be compatible with 060 or 18 also claimed with 060 or 18 also c

he 28MHz uses your original CPU and clocks it up slightly. It's the D hat makes the real difference – and should provide a very notices approvement in the speed of applications and even rendering.

# odrive;

Uprdict | I you've got the cash get the card.
Although there are a number of acceleration systems for the A4000 and A3000 this is far and away the

Paul Austin goes boldly hounnd the 25MHz harrier with the aid of .

figurin

aps set-

few. I

direct

Warp

instal

ime.

ets try

out on sticky mitt?

the Warp Engine

After listing the install disk, it soon

became clear that the board doesn't

actually require any configuration whatso-

Leaving this aside, the disk's sole pur-

pose in life is to format and partition any

hard drives you may wish to use with the

The ability of the board to work first time

without the assistance of any additional

plowed ever - the only none essential option

ve and seing a ROM Remapping utility, which if

rd. The sed employs 512k to remap the

ich are sistem ROM, thereby speeding up intuition

built-in SCSI II controller

ere was a mips test - million of instructions per secling the and. After firing-up SysInfo and clicking on me speed test, a whopping 30.5 mips ne only popped-up as opposed to the usual 17.5, rboard set I still had the installation disk in my

software is just one of the many testaments to the inherent quality of the product. Over recent years I've had the pleasure and sometimes pain of using and reviewing quite a number of accelerators, the vast majority of which all demand at least some sort of software intervention to operate properly - but not this time, plug it in and you're off.

#### REFLECTION

A fairly

Engine

complex scene rendered in a fraction of the

time, thanks to the power of the Warn

Although I've made a point of the physical problems associated with installation, it must be stressed that this is a reflection on the cramped and curious design of the A4000 rather than the Warp Engine.

As far as the Warp was concerned, you only need do two things: plug it in the slot. and turn on the machine - installation com plete, the tricky bit was the former...

## Warp speed

Obviously rendering is the primary target for Warp Engine but general application speed also rockets. During testing we ran the following

### LightWave test

Using the standard textures example rendered at video resolution

Normal A4000 25MHz 16.17 mins Warp Engine 40MHz 6.43 mins

**ADPro** test

Using internal IDE drive, a video resolution Jpeg image was loaded, scaled down by 75%, converted to image using small ordered dithering. Process automated via Normal A4000 25MHz 23.92 sec. Warp Engine 40MHz

a negative and rendered as a Hama

tions which regularly access files on disk - Imagine2/3 being prime examples - would show even bigger improvements when employing the Warp's SCSI II controller.

BLACK = Recommended

60ns RAM

One of the big advantages of the Warn Engine is the ability to use your existing RAM. This is fine for both the 28MHz and 33MHz configurations but in the case of the 40MHz board you could run into problems. Although the latter will work perfectly with

both 80ns and 70ns 72 pin sims, it's only at its best with 60ns RAM. Unfortunately it's almost certain the RAM shipped with your machine was either 80ns or 70ns.

As a result, investors in the 40MHz board may need to shell-out for faster RAM if they

want the board at its very best. However, it's not essential, and in fact we tested the board with 70ns RAM by adding wait states, and as you can see the results were still cretty impressive. Thanks to some inspired design work it's

even possible to mix and match sims of varying sizes, ranging between 4Mb, 8Mb, 16Mb and 32Mb, giving a theoretical maximum of 128Mb within the four sim slots provided.

There are occasional restrictions to ensure the RAM is contiguous - fortunately all is explained in the brief but impressive manual.



## Memaru

Reachball, Floor and Mentest individually point towards the power of the Warp Engine, it's

only when they're put together within an application that you see the

## шагпіпо

Product: Warp Engine Supplier: Premier Vision Price: 28MHz without 040 = £ 599 28MHz with 040 = £799 33MHz with 040 = N/A 40 MHz with 040 = £1199 Tel: 071-721 7050

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**Amiga Computing** 

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# The lighter side

# of life

Ithough undoubtedly one of the friendliest modelling and animation systems on the market, the pure umber and variety of features inevitably make Lightwave, and it's accompanying modeller, a tough nut to crack for even experienced 3D enthusiasts.

What's really needed is a little hands-on advice from a real expert. Thankfully, that's swactiv what's on offer courtesy of Desktop

Although formally only available to our excolonial cousins in the States, Lee Stranahan's series of Lightwave and modeller tutorials are now out in PAL. As anyone who's waded through a fairly

michnical manual will know, ten minutes with an expert often equates to exactly the same ming - minus a couple of days of head scratching and frustration, Thanks to Mr. stranahan, this old adage is now proven beyond all doubt.

As luck would have it, our omnipresent presenter is not only blessed with a wealth of knowledge and a natural air of confidence, but also a dry wit which goes a long way towards negating the trip to the dentists leeling all too often associated with tutorial

During Lightwave Essentials, our hero starts off gently with a guided tour of Lavout. As existing users will already know, Layout element in the Lightwaye repertoire.

With this in mind I sat back, fully expecting to learn very little, confident in the knowledge acquired during six months of hard slog with manual and soft-



At which point Mr. Stranahan put me firmly in my place. Obviously most people will be pretty au fait with the basics, but when it comes to time saving, tricks of the trade and basic working methods, a few choice comments soon translate into hours saved in design and rendering times.

As the name suggests this, the first in the series, is fairly basic stuff and doesn't touch on some key stumbling blocks such as surfaces and the application of texture

However, what is provided during the two hour introduction to the six -part collection does lay the ground rules and may well provide enough information on its own to cater for those who aren't likely to take their Lightwave creations any further than the ubiquitous flying logo.

A gentle, but never the less essential introduction to the art of Lightwave animation. Picture quality could be a little better though - no doubt due to the NTSC to PAL conversion.

Nevertheless, I'd recommend every Lightwave user to watch it. The time saving tips alone will soon cover the initial outlay highly recommended.

> Supplier: Desktop Images Tel: 0101 818 841 8980 Price: \$49.95



As the Lightwave inuasion gathers pace. Amiga Computing looks

> at uideo tuition andsome amazing

seamless textures -

### DMM Undate

For those who caught our September issue and subsequently rushed out to invest in a copy of Dynamic Motion Module, only to discover it didn't work with the new standalone Lightwaye - don't despair

Like many third-party developers. Positron were caught unawares by the arrival of Lightwave 3.5. However, the incompatibility problems have now been eradicated and updates should already be shipping. Contact Positron Publishing on: 0101 402

## Pro-Textures

With the sudden profusion of CD-Rom and assorted texture collections, there hardly seems any room left for yet another collection of textures. However, in a seemingly flooded market the Pro-

Textures combo collection does have one huge advantage over the opposition. Unlike almost every other product on Not the kind of news to send most people gaily

romping through the fields naked in a state of uncontrolled euphoria, unless of course you're a 3D fan of

The big problem with most textures is that when rapped around any 3D model, a very noticeable seam runs down the object. Not the case with this collection. After what must have been a torturous process, each



edge matches precisely with it's opposite number. As a result, waves glide off into infinity, bricks wrap effortlessly around walls and so on. In total, you receive 24 textures over eight disks, each provided as a Ham, GIF and 24-bit Jpeg. Being an American import, the resolution is 736 x 480 which obviously will require some image processing for use as full screen backdrops. However, this isn't really what the collection is intended for. Purely thanks to the seamless texture mapping, I'd

say the Pro-Textures series is a must for any self respecting 3D enthusiast. And of course, although ideal for Lightwave, the collection is equally at home with Imagine. Real 3D or whatever package you prefer.

> Supplier: Visual Inspirations Prices: \$99.95

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has never been one of Commodore's strong points Advertising, that is. This latest operming system upgrade is no exception to that OK, perhaps that is a bit harsh bearing mind their current problems, but their veil secrecy does them no good at all.

Yes Kickstart and Workbench 3.1 have men released with the usual lack of fanfares = peremony. Even more surprising, is the that Commodore haven't released it

Instead they opted to contract out to a med-party organisation. VillageTronic - of Picasso II fame - to blow the ROMs and met the manuals.

The launch was very high profile (not) with a small mention in a couple of magazines. The volume of the sound was little more than

This upgrade has to be the most expenwet! Release 2.0 started life at around 30 to the average man in the street and this the baby will set you back a cool £100.

Even worse, there are two versions of the parade kit, depending on which Amiga you For the A500/1500/2000 owners, the Sostart version is 40.63 on one chip, while = A3000 and A4000 owners get version #0 58 on two chips, yet both are release 3.1! Confused? You will be! Alright, you have parted with your hard earned wongs and time furiously opened the parcel which has arrived at your door. (It is too large to fit mough the average letter box). What do you

and for your hard-earned cash? The first thing you get is the rather roughly ward Workhench 3.1 and AminaDOS 3.1 manuals. These are obviously not the usual

No colours here. Instead they have a plain white cover with a rather stark Commodore logo in black and the manual's title on the mer, held together with a cheap plastic

They look rather shoddy to say the least, then who reads manuals? Let's be bonthese wouldn't even look good on a mell OK, they go back into the box, never to

seen again. Like I said, no one ever reads manuals unless something goes wrong. The Workbench disks are the only items

which look like they have come from Commodore, and are the same standard sue for both upgrade versions.

#### A little colour

Add a Picasso to a non AGA machine and you can even enjoy a 25b colour Workhend



new OS courtesy of Sysinfo

Operation

Kickstart

Another operating system, another

ungrade, but can this one outdo its

aredecessars? Keuin Kitching finds aut

The Workharch 3.1 manual is basically the same as its predecessor, both having been written by the same team on a variety of Amigas There is additional information in chapter

one regarding the selection of monitors, languages and keyboards, and chapter two expands on using pointers. This seems strange, as this is an upgrade and many users will already know these operations. The pictorial screen representations (i.e. screenshots) within the manual are not as clear as in the original manuals, but this is compensated for in the additional informa-

#### and its functions. MANUAL

tion and clear explanation of Workbench The initial "cheap and nasty" feel of the manual soon subsides as you realise that the book will stay flat on the desistop or can be folded over because of the binder

This is certainly a well written manual and more surprisingly it was written by Commodore. VillageTronic make no apologies for stating that it was self-printed by them, although you do get the impression that they perhaps used Pagestream to do it. There is practically no need to buy a third-

party Workbench book, this has it all. A very welcome addition is an appendix devoted entirely to AmigaGuide, which for some people has caused frustration under

Workbench 3.0 by being called MultiView. AmigaDOS 3.1 is a joy to read! This is a mega-upgrade to the original. Not guite the incentive to roll up your sleeves and get your hands dirty, but at least all the information is there in front of you if and when you take the plunge

The book even begins by explaining how

to use the manual, and takes three pages to fully explain this. Easy or what?

There are more directions and cross references to sections than an insurance document - the difference is you can read and understand this. A complete novice can be up and running in no time, it really is that simple and well laid out.

Now, down to the bones of the upgrade. The main ingredient of the package is the chip or chips, depending upon which Amiga you have. This has a small white stick-on label with

the words 'Kickstart 3.1' typed on it. Again. rather cheap looking, but once inserted into the Amiga's ROM socket, no one will ever notice. Fitting is very simple for anyone with nor-

mal eyesight and a reasonable level of manual dexterity. All you have to do, observing the usual anti-static precautions, is identify and remove the old ROM and insert the new one. This is done, preferably, with the Amiga turned off If you have never removed a chip, this is

the most traumatic part of the operation. If you have changed a chip, all you have to do

of you who expect an improvement in the number of colours available h are in for a big disap rse, you have a 24-bit graphics card in your Amiga. With a

palette editor in Prefs really does show the colour wheel which was previ inly accessible with an AGA Amiga. ECS owners will not be able to see this a bar is shown with the words 'colour wheel'. You must click on this bar to

reen. Clumsy, but effe le in the Prefs drawer, iPrefs on non-AGA Amigas will not allow romotion. This feature effectively de-interlaces the display to prevent flicker, wires the AGA chipset. is try to stay awake

Remember, you will probably have to remove most of the inparts of the Amiga to do this especially on the A2000! Anyway. here's one we did earlier

Alright, the chip is snugly in its new home and you can power up the machine. The immediate difference is that the normal startup that Kickstart 2 gives, in the form of a light grey screen, has gone

The machine now looks to have crashed. All you get is a guick grey flash, the screen goes black, and your heart misses a beat. Only the hard disk activity light gives a clue that the Amiga is booting up as normal.

When the Workbench screen appears, it now has a white title har identical to the A4000. The speed at which Workbench loads is a little faster than with Kickstart 2. which indicates that there are some welcome changes in the ROM to boost performance.

The next exercise is to install the six Workheach 3.1 disks to the host partition of your hard disk. This is simplicity in itself being totally idiot proof, which is just as well as there are no instructions Just insert the Install 3.1 disk into the disk

drive, double-click the Install icon, select your language and away it goes.

#### **OVERWRITE**

Commodore have used their standard installer software to overwrite your old version 2.x files, and the whole installation is a doddle. The software is all version 40.xx and takes up less disk space than Workbench3.0 did. After the disk swaps have been completed, all that remains is to reboot the Amiga and sit back.

Many disk operations are faster, and so are the screen updates. The maths libraries have been reworked to provide extra speed with some applications, although there are PD versions around which are both smaller and much faster

Generally speaking, the new software is the GTi of Workbench releases. And yet, strangely it seems, there are some die-hards out there who insist on staying with Kickstart and Workbench 1.3. Come on people, wise up, no one is writing for the old system these days. Move with the times

Workbench 2.x users will find that they now have the ability to display graphics and text on workbench, thanks to the Datatypes

Even non Amiga filetypes such as the PC's PCX and BMP graphics formats can be

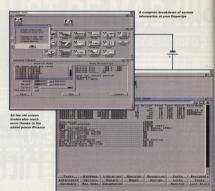




in time, the price may fall, as it did with Workbench 2, but at the ent, the quality of the product set against the usability does qual that much dosh teresting note is that the upgrade will not be available for A600 or A1200 owners, and there are no plans to offer any

de in the future This is definitely an upgrade for those with "big box" Amigas no must have the latest operating system. After a while the ness wears off and you realise that it's just another operal

g system rs (official Commodore devel opers) already have Kickstart v40.68 which they can soft-kick into memory. The po Kickstart 2.04, who will part with £100 for Kickstart 3.1?



displayed in a window. There is support for some CD operations too such as CDXL (CD animation files).

Yes, the software carries CD-ROM support. This is not as good as the PD AmiCDROM system, but at least it works this

The format command now gives additional options too. Directory cacheing allows faster window updates with the FastFileSystem.

So far everything sounds too good to be true. I must confess that I have some reservations about the reasoning behind this

Kickstart 3.1 was announced as being in the A4000T by Commodore. The version number of that chip was 40.70. Now it is common knowledge that the A4000T has never seen the light of day in the UK, so therefore no one knows if the chip does suppromised by Commodore).

A little detective work reveals that VillageTronic were going to use version 40.70 BOMs, but here is the crunch - there were timing problems with the SCSI bus and it simply would not work with the 040 accel-

erators out there. So, a compromise was reached - use a version that does work. Simple, just go back to an earlier working version tested by

developers. Consequently there is no direct support for CD-ROM and no real difference in performance on the A4000 (other than a speed increase on accelerated ECS Amigas).

So what is the point of the costly upgrade Well, for the ECS Amigas (A500+ etc.) then are no real additional benefits. Okay, the titl bar and pull-down menus on Workbench ar now black on white. This looks more pleas ing than the previous attempt. But these ar just the "bells and whistles.

Workbench 3.1 is definitely for hard dis systems only. Six disks are a lot to swap of a floppy-based system. Some software wri ten with Kickstart 3 in mind will work, but the AGA chips are required, you've had it Game over player one.

The situation is even worse for A400 owners. The changes are so subtle that the definitely is a non starter. The software doe not drastically outperform the previou Workbench 3.0. Not for 100 folding token anyway. 10

#### The bottom line

Product: Kickstart 3.1 Supplier: Blittersoft Price: £100 Phone: 0908 220196

Ease of use Implementation 7 Value for money 6 Overall



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special set of structured drawing tools for

driver programs for outputting to

can be achieved when running with twin floppies, it's not possible to offer more without losing performance. Final Writer is the first and

only bard drive compulsory Amiga word processor; the only package that doesn't make compromises to be floppy compatible!



Final Writer

Now, as other on put a starting to add similar framers, supple dry's revolutionary, Final Witter count for constant part of the Batthewa Plan<sup>2</sup> - adding coes flows and more functional options, recluding coes flows and more functional options, recluding an another than the part of the similar coes flows and more functional options, recluding and hashing the vary with his interdiction of Fanch Foods<sup>22</sup> and Starting of the Royal Foods<sup>22</sup> and such as of all foods<sup>22</sup> and another work of the Foods<sup>22</sup> and another work of the Foods<sup>22</sup> and and a single cloth of the Foods<sup>22</sup> and another work of the Foods<sup>22</sup> and the Foods<sup>22</sup> another work of the Foods<sup>22</sup> and the Foods<sup>22</sup> another work of the Foods<sup>22</sup> and the Foods<sup>22</sup> another work of the Foods<sup>22</sup> another work of the Foods<sup>22</sup> and the Foods<sup>22</sup> another work of the Foods<sup>22</sup> anoth

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## It's the business



have recently purchased an A1200 Amiga. computer and have to confess to being completely lost as to where to go next. I have an 80 megabyte hard-drive and got some free games with the package

I hope to be able to use my Amiga for a range of practical purposes. Firstly, I want to do some business projects could you suggest a good database package? Also is there a personal finance package that would be suitable for my machine?

Secondly, is there a good but cheap package I can get to develop smart presentations for my business projects? I already have a word-processor that came with the computer but it does not compare too well with the ones I have used in my old job. Please could you tell me which is

the best word-processor on the Amiga. Steven Ross, Berkshire

OK, we'll go through the standalone options first. As far as a database is concerned it might well be worth scanning the PD section to see if you can pick something up for a couple of pounds.

If PD or Shareware doesn't really interest you could go commercial with either Superbase Personal4 or its hig brother Superbase Pro4.

An alternative would be Prodata, perhaps in concert with its word processing partner Protext. As luck would have it, Protext also happens to be an excellent

word processor. However, it must be stressed that although Protext is ideal for business it isn't the first choice when it comes to pretty presentation. The question is would you prefer glamorous printouts or a symbiotic database and word processing system.

As for a personal finance manager. I'd definitely recommend Maxiplan4. Although it's not the prettiest software in the world it's in my opinion by far the best

As for presentation, especially in a business environment. I'd seriously consider Scala HVT, Although the acronym stands for home video titler it's still ideal for simple presentation work. It's also easy to use, and better still relatively cheap.

If you're still in the market for an opinion on the best word processor I'm a devoted Wordworth3, although Final Writer has just as many devoted followers. Both offer a mixture of excellent word processing

features mixed with a good helping of DTP add-ons which makes for very impressive hard copy. The final alternative is to invest in a combination

of all of the above - with the exception of Scala HVT. And as luck would have it, good old Europress Software have the very thing in the form of Home Office.

Although the individual components don't match-up to the individuals head-to-head, the overall package does offer a nicely integrated system at a bargain price.



as follows:

Window 0, 120, 70, 200, 40, \$10000|\$8, \*\*; Window\*,1,2

tutorial.

Notice the changes in lines 5 and 6. Line 5 was WorkbenchenchToFront, and line 6 was WorkhenchToScroon

Please don't take this as a criticism as I was otherwise very impressed with your excellent approach to the subject, but this could cause some confusion. I am looking forward to the coming instalments of the

Robert Polding, Colyton

Well what can we say, apart from thanks for the help. If anyone spots errors in any of our columns please feel free to get in touch and we'll put things right as soon as possible.

For those who prefer the e-mail approach here's how to contact Amiga Computing on-line:

CompuServe: 70007.4734

CIX: amigacomputing

●Internet: amigacomputing@cix.compulink.co.uk

## In communication

I am trying to start a Blitz User Group which will enable Blitz Users to communicate via a free disk magazine. The system works like Users send one blank floppy plus a self

addressed and stamped envelope. I then collate all the elements of the magazine and send it return post to members. As I said it's all completely free except for the price of the If you're interested send your questions,

answers, ideas and programs to the following address: Daryl Booth, 22B St John Avenue, Ramsgate, Kent CT12 6HE.

ferent to plight of their product and its If there's anyone else who would like a shout for a similar non-profit making ser-

vice, whether it be a newsletter or user group, feel free to drop us a line and we'll get you in print.

Well it's great to see that users are contin-

uing to support machines even though

the remains of Commodore appear indif-

### Blunder blitz

On opening a recent issue of Amiga Computing I discovered with great surprise and joy a brand new Blitz 2 column. I followed the instruction and realised there was an error in the listings. The listing should read

Died a grim death?

Can you tell me when the CD drive for the A4000 will be released and approximately how much it will be? Also, could you tell me whatever happened to the DSP sound chip with the rumoured 32 channels, built in sampler, etc.? This seems to have been

Gideon Cresswell, Maidstone

If you're waiting for an official Commodore A4000 CD-ROM, I wouldn't hold your breath. As it stands, Commodore will be hard pressed to get their existing hardware back on-line for As a result, its highly unlikely they'll embark

on an official release this year. Although you've not mentioned it, I assume you particularly want a Commodore drive primarily for the Planar chip and FMV available on the CD32

If that's the case, I'm afraid you'll have to wait and see what happens to Commodore. If, however, you simply want an A4000 compatible CD-ROM it's worth getting in contact with the First Computer Centre. They're already selling a standard IDE CD-ROM with the appropriate installation software and connections. Obviously this won't offer Planar or FMV but it will read any ISO 9660 CD - the industry standard on all formats As for the DSP chip, this, like many Amiga

rumours, has been consigned to the vapour ware cupboard. I'm afraid it will be next year at the earliest before you'll see a built-in DSP on any machine in the Amiga range - if at all.

#### What the future halds

are a note to let you know how much I enjoy magazine like yours, dedicated as it is to the an computer enthusiast.

have followed your various features with referest and have gained insight not only The world of the Amiga but also into the of computing in general.

It's so exciting to wonder what surprises sennology holds for us around the corner. Is Pal as good as people have been amo I certainly hope so! Then there's the memet - as it touches more and more peoan doubt that it will entirely revolu-

the way we live and let us not be so foolish as to forget me possibilities offered by virtual reality. - long before we'll be able to rest and play all amout even having to leave our an all have our own Cyber-

Andrew Filler Dancaster It's good to know our efforts are making you so deliriously happy or are you delirious by nature? as for Lightwave, it is indeed a very

special product, However, it must be

line 6

Colutor milton

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If I may introduce myself. I am Eneko, a spanish student. I have recently finished my studies of fine arts last year. Since then I've been working on a study of both computer and traditional animation - believing the future lies in the former of the two. I'd appreciate some much needed advice.

As I regular reader of your magazine I know you have extensive knowledge of 3D imagery, more traditional graphics programs and of course the all-important hardware. My first idea was to develop an easy way to produce images via the computer. Of

course, most artists are frightened of the technology and need to see immediate results to maintain any prolonged interest As I know a little more than most, this soon evolved into the idea of making a film/video

of animation, mixing both computer and traditional animation. My aim is to produce the whole thing over the next year using drawings, my Amiga 3000 and the Opal Vision What I need to know is how to transplant the computer images to film. Any information

on video or movie production which uses computer technology - particularly the Amiga since it is a computer easily affordable for the artist - would be welcome. What kind of technology will come in the future? I mean, could I make and ren-

der my scenes in virtual reality in the near future? I don't need concrete answers, just your personal opinion.

I have many questions to ask, but I don't want to waste your time. So if you can help me, or know someone who can, I would be grateful for any contacts you can offer.

Eneko Caligas Mazorriaga, Vizcaya, Spain

As far as creating graphics quickly is concerned, there are literally hundreds of alternatives on the Amiga. The real question is what sort of images you need?

If it's simply a case of titling or presentation graphics, packages like Scala and MediaPoint are the obvious choices. Although they don't provide a lot of painting tools, they do offer a means of dis-

playing existing artwork as backdrops and clips as part of a larger overall multimedia presentation For example, both can combine stills and animation with Midi, laser disks, CD-

ROMs, Canon ion cameras, sound modules and samples.

They also have the added bonus of being interactive with the user/audience something which many artists find particularly appealing.

I realise much of the above may have raised even more questions, but if you simply want quick results, pretty much any paint package will do the job As for your existing system, it appears you're fairly well equipped. However, if you're planning to expand via the mythical add-ons from OpalVision, I wouldn't

hold your breath The OpalVision farce has been an ongoing saga for over two years and there's still no sign of the Roaster chip and the other videographic goodies. Vapourware at

its host As for your query about transferring Amiga art onto video, there's a number options. In the past the only accurate method was to invest in a BetaCam SP edit recorder

However, recently we've seen the arrival of desktop digital video via the PAR card from digital processing systems.

Not only is the quality superior, but it's also a much cheaper alternative - even when fully configured with a realtime frame grabber and the essential IDE hard drive/s

However, before investing in the PAR it's well worth catching next month's review of the VLab motion system. Like the PAR, this new card provides real-time video capture and playback in both Composite and S-VHS.

But perhaps the best news is that the system will retail considerably cheaper than the PAR and doesn't necessarily require investment in an extra hard drive. It remains to be seen if VLab Motion can match the usability and reliability of the opposition, but if it manages to come even close it may well prove an attractive

option for those wanting a single frame and real-time recording facility at reasonable cost As for you plans to model in virtual reality, I'd say it's very early days. Although VR is beginning to make its mark as a training and research tool in medicine and industry, the system overheads on the Amiga are simply too high to make it

As for the query about additional advice, I suggest you read on and take the advice of an obviously very satisfied member of the 24Bit Club.

machine to use it - 8Mb being the minimum Ram configuration. As for the Internet, it's true there's huge potential, but as it stands I doubt the mirase of modern e-mail will be reaching out mo every home for quite some time At present the net is still a very harsh environment for the novice and unless it's

memain the preserve of the technological With regards to your fantasies of nubile ander women, I'd suggest a trip to a cyberpsychiatrist as your first port of call. nowever, if we can put your strange taste in women aside, it's still good to see such mmusiasm for the brave new world - lets hope it lives up to your expectations.

made a little more friendly, it's likely to

24Bit oraise

in this day and age it is refreshing to find that somebody still exists that offers superb service with expert knowledge and a caring atti-

These guys are the best. They have helped me immeasurably with CoalVision, Imagine and some very serious problems with LightRave

If you are serious about 24Bit processing, get serious with the BARR Club. A very satisfied 24Bit Club member who is wondering alty you have never reviewed the club in your magazine Steve Calkin, Canvey Island

Alias the Scottish 24Bit Club - Ed

Well, I'm very happy for you. As for a review of the club it's mally a case of what they offer that warrants the coverage. As I've already mentioned, any club that feels they offer someming special will certainly get a shout in the magazine. Just write in, it's that simple.

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#### A Star is born

I am writing to ask you how to set up a Star LC100 colour printer. I have tried the Workbench3.0 manual and followed the steps open

manual and followed the steps open schench and select devs printers, but there is not a Star LC100 colour printer Therefore, I decided to rename another there Star LC100 colour and then fol-

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and the instructions again, but still no by I have checked the printer cable and arrier but nothing seems to work. Please and you tell me what I am doing wrong?

A Power, Kilmarnock

The files in the Devs:Printers drawer are called printer drivers. They allow you to print along a dedicated printer driver.

This means that printed output is

maximised for neatness using the driver that has been especially written for your printer. However, Workbench doesn't come

complete with a set of Star drivers, so you will need to order one from Star Electronics.

They will explain exactly what you have to do and how much it will cost

have to do and how much it will cost (mine was free as I remember).
You can contact Star Electronics on

## Write enabled, protected disks

I have had trouble loading KindWords 3 onto the required four disks and as a result I have sturned them as faulty and asked for placements. Eventually, following my

No more 8-bit

I recently bought the September issue of Amiga Computing for the Spectrum Emulator on the CoverDisk. Since then I have managed to load some old Spectrum games

unfortunately, when I try to save the game as a snapshot I get a window requester stating YOU NEED ASL OR ARP LIBRARY. The same happened when I tried to load the Batman game

What am I doing wrong, or what do I need to to get them to save and load?

W. Hepworth, Kent

#### Yet another mixed bag of computer worries -

comes under the surgeons knife in time for a speedy recovery —

letter dated 18th July, I did receive an envelope with just two more disks.

envelope with just two more disks.
However, try as I might, there is no way I can de-crunch these two disk onto four working disks, because each time I follow the instructions I am told that the disks which will receive the de-crunched information are write protected, when in fact

they are most definitely write enabled.
As a result I have not been able to get into and use this word processing package. It would appear that looking at the individual files from Workbench the programme does not recognise the drive DFO, although this is the defined drive in

The replacement disks have not in any way been tampered with, nor has the write protect been altered while trying to de-crunch the program.

I would welcome your help in this small matter, as this KindWords 3 program is just what I want for my A600 and with your help I look forward to being able to load and use this programme.

G. Earls, E. Yorkshire

Apologies for wasting precious ACAS space with a CoverDisk enquiry but I am still getting a horrendous amount of letters and phone calls regarding this problem which I have explained twice before. This is the last time.

In order for our disks to de-archive successfully we are forced to use the A600 version of the Format command as it is the only one that works on all

Amigas.

There is a problem though. The A600
Format command has a bug so that if
the disk that the machine is booted



from is write protected, further disks that are inserted will be understood to be write protected, whether they are or not.

The solution to this is to make sure

The solution to this is to make sure the KindWords 3 disks are write protected before you boot your machine. Please, no more!

#### Still no Viking warrior

Many thanks for your response to my problems with Heimdall 2. I tried all of your suggestions and have just received, from Mark Price at Core Design, a new set of disks and the request to remove my RAM expansion.

I have sent him a letter which sets out.

I have sent him a letter which sets out further problems I encountered. When I



The ZXSpectrum emulator utilises ARI

The type of file requesters that the Spectrum emulator uses require the ASL or ARP libraries in order to function. These libraries were written to improve the original, gaudy file requesters. If you own an A600 or above machine and you used the installing program, there should be no prob-

lems.

If you have an A500, ASL will not work and ARP was not included on the disk. You could look through the Libs drawers on AmigaDOS disks in your collection for a copy of ARP.library, but if this proves fruitless send a letter asking for ARP and I will send you a copy.

removed the RAM expansion and tried again I got the following message:

Memory fragmentation - reset and try again 131100 1288928 1980001

These numbers change each time I try to load the game. My Directory Opus shows that with my RAM expansion removed I have 748k.

have 748k.

On checking my RAM disk I find that I have three files within it on startup. They are Clipboards, Env and T.

Please can you help me further? If I can sort out what appears to be a memory problem on startup and the game runs without my memory expansion in place, I would like to disable this without physically removing the board each time I play the game. Many thanks.

A. Bernascome, W. Sussex

This is a complicated one. As I have installed Heimdall 2 several times on an A1200 and have had no problems, I would imagine this is a fault of your machine or possibly a virus. It may be a good idea to check your machine with a reputable virus killer such as John Veldthuis' Virus Checker.

AGA machines do suffer from memory fragmentation but not to the degree your machine is reporting, and so

#### (ar that won't go



in frustration? Aaaaah!

Ok! I give up. I've edited the teams in F1GP-Ed, saved them to the disk and finally tried to save the files to executable (disk two of the four F1GP disks), but each time I am not asked for disk two of F1GP and once the machine finds out it

tells me that I haven't got the required disk inserted.
Call me thick if you want, but how do you go about writing to executable? I'm 33 years old and balding, so please tell me before I pull out what little hair I have left

S.Ramsey, Co. Antrim

What! Leave that hair alone. We may have the answer yet. First off, it would have been great if you could have sent me some details on your Amiga set-up but as you didn't I'll have to take a rough guess.

Boot your Amiga with the CoverDisk containing FIGP-Ed and load the program up. When that has happened take out the CoverDisk and insert your FIGP disk two in the drive. Now click on Read Data From Executable and use the file requester to load up the file called 11gp.

When this has loaded, edit the teams etc and then press Write Data To Executable. If any screen requesters appear asking for another disk, just click on Cancel till they go away. Select the figg file from

#### AmigaGuide



Apologies for the missing AmigaGuide part 2 article but it will be present in the next issue of Amiga Computing. Promise.



More from the world of AmigaGuide in next month's issue



You got problems too? Then drop a line to Amiga Computing Advice Scruice, Europa House, Addington Park, Macclesfield SKIO '41P and we'll move heaven and earth to help in these columns. But sorra, we cannot reply personally, so save those SAIS.

suddenly. You could be very trusting and send your Heimdall 2 game to me and I will try and install it for you. If you do want to try this please send only the

Otherwise I can only see this as a fault with your machine, but it may be worthwhile trying the alternatives suggested before you fork out cash for a check and repair service.

the file requester and click on Okay. This should save the new settings to the original file. Don't forget to back up the original filg file first. And that's it. If you own a copy of FIGP from the

Wild, Weird and Wicked A600 pack you should immediately upgrade to the latest version of FIGP-Ed, details of which were printed in last month's Amiga Computing CoverDisk pages. Hope that helps.

From Name Frontier Manue (Inflateron (Carpetal State S

F1GP.Ed - improve your racing skills and add a new challenge

#### Protext no text

On getting hold of my first hard drive I attempted to install Protest 4.3 from your CoverDisk.

In no circumstances was it going to work so I contacted Arnor who told me that the CoverDisk was for demo purposes

only and would not work on the hard drive-They suggested that I buy the full working copy which I did. On executing HDIN-STALL, all the files are successfully copied over to the partition WORK, but that is as far as if ooes.

The program will not run by clicking on its icon, even if I boot from hard drive and insert the original floppy in DF0. I can only get the program to run if I boot directly from

I wrote to Arnor again and they could only suggest that there was something wrong with my startup files and that I should remove them one at a time until I solved the problem.

This I have tried and still the program crashes every time I click on its icon. The configuration setup is correct so that isn't the problem. Any suggestions?

V. Stramy, Morfolia.

Wow! You have been put through the wringer. The CoverDisk version of Protext will install to hard drive but it was probably a wise decision to upgrade to the fully working version.

Why it's not working is another matter and one that seems quite confusing. I would imagine it is probably an error in the HDINSTALL, although if such an error existed Arnor would have probably known about it.

You could try copying the program to your hard drive manually by using a directory manager program such as SID 2 or Directory Opus.

2 or Directory Opus. You could then add an assign into your startup-sequence by doing the following. From the CLI type:

Just before the Loadwb command add

the following commands:

assign : WIRC:

As an example, suppose Protext was in a drawer called Protext in the WORK partition and the Protext disk was called PROTXT1 you would type:

You could then save the new startup-

sequence by pressing Esc, x and then Return.

If this doesn't work write in again, but this time explain the crash in more detail and any requesters that may appear.



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U395 MIDGLE MID EXTRAS (MIDS.) [20]

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bounh billed as a disc designed to demonstrate Syndesis's Inter-Change 3D object conversion softthe latest collection of models to reach is one of the best yet.

the company's growing CD range 3D-Rom Volume 2 (3DR2), containing

andreds of models, some superb, some good, and at its price of approx £65. Dwating models when you don't

an expensive 3D digitiser can a laborious process, particularly if are less experienced than some, and the on this disc, mostly donated by commodelling companies as samples of

wares, could be a real Godsend. For those who make a living from the 3D numess, the facility to call upon a permanent many of objects at the drop of a hat makes

ER2 a must buy. The models, arranged in directories by conmader, are very well organised. Unlike the store ware approach taken by some CD-TM companies when nutting compilations sumer. Syndesis have obviously put some

mucht into the structure of the disc. There are 202 models in total, many of are made up of several smaller objects. as the scenes containing whole rooms or and every effort has been made to make them as easy to use as possible.

Both the major Amiga rendering systems, wave and Imagine, are directly supporas are Wavefront (for Silicon Graphics marrines) and the PC's Autodesk 3D Studio.

For quick previews, the manual carries numbnail piccies of every model, but for a mally good look at each creation there is a mactory packed with GIF images showing the undered results. Most of these are 256-colour muscales, but they show each model in seed to facilitate a bit

all window shopping. LightWave users spoiled more man most, as each model is presented complete with its own scene. Many of them have image maps as well, mough in some cases the ampanies concerned have limited their usefulness.

# light infantry



flage images which I was forced to simulate with a few quick fractal noise maps.

The originals, though much more suitable, had been rendered multi-coloured to tease

users of the disc into buying the complete In cases such as Tim Nign's superb tank model, it's not difficult to see why he has held a little bit back. Even

scenes set up with groupings in awkward places, the models themselves are of a consistently high quality and take only a little editing or texture mapping to fit straight into any scene you like. As an educational aid on how to put good

models together without over complicating things, the package would sell itself, but as there are so many top-quality creations of such a wide variety (everything from WW1 biplanes to kitchen utensils) you'd be mad not to give this one a whirl.

If you don't already have a CD-ROM drive and you are a 3D afficionado or professional. discs such as this one make the drive itself the next thing on the shopping list.

#### The tank shown here, for example, was Net those models

Syndesis's other new CD-ROM title is the Avalon collection, a "snapshot" of the Avalon site on Internet where, apparently, the 3D dudes hang out in their

Models on the disc range from excellent to pretty awful, and as many have been uploaded by an army of Joe Schmoes like you and me, consistency is not a major feature of the collection.

The Star Trek/Star Wars theme is well represented, but there are enough different types of object to keep most browsers happy. What is disappointing, however, is mat there are no load and go LightWave or Imagine

If you don't have a copy of InterChange Plus or Pixel

Pro, there's not much here to interest you apart from a directory of textures in raw RGB format.

This is a pity, as some of the models from other program formats are stunning and would grace any scene. There are those, such as the ubiquitous NCC-1701, which we've all seen a million times before, but others are more original, such as the rather gruesome 3D scene set up to exactly match the last few seconds of John F Kennedy's life.

The latter is a new departure for the Americans, who seem at one stroke to have combined a hobby with a national tragedy, and plumbed the depths of bad taste Mount St Helens eruption? (Avalon CD Rom approx £32)



#### The hattam line Product: 3D-Rom volume 2

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#### t first glance, you'd not even notice that ImageFX had been upgraded. But diving in and trying ImageFX 2.0 sike taking a swig of rum punch when multe expecting Kool-Aid - it's a lot stronger

This new release maintains the ease of me of earlier versions, while adding a suite of new and improved features that promise to as it to the forefront of the Amiga image-

Howeve, before we go any further it must stressed this is a preview of an almostbeta version of ImageFX, so some feasees could be drooped at the last minute.

Wore likely, though, you'll find that Nova mmmed in a few more at the last minute. New to version 2 is the ability to run on the Markbench, complete with the preview win-

me - previous versions forced you to work aind on the Workbench. Working on the Workbench saves a bit of The RAM, and is handy for creating art such

mare the Workbench palette. Another interface improvement is the addi-

non of previews for most of the special effects. When selecting settings for an effect such as punch, two thumbnail views open wat to the control gadget.

One shows the original image, and the second window shows you the image after applying the effect with the current settings. If your effect looks great in the thumbnail view but lousy at full size, ImageFX features andie-level undo and redo.

mageFX 2.0 features a new optional numbrail file-requester that should be stanand on all Amiga graphics programs. instead of just bringing up a list of file-

names, the requester displays thumbnail icon mages of all the graphics in your directory. These are stored as small, separate files meated by ImageFX, for fast loading.) Inimation station

egabyte anima fred kilobyte

P, mentioned earlier, makes in the perform image-processing to perform image-processing the perform image-processing the performance of the perfor

# Spitting

Looks can be deceiving. Denny Atkin shaws you why there is more to ImageFX than meets the eye - ımaqe



ImageFX 2.0 features a high degree of retargetability. You can display the interface window on just about any graphics card that installs itself legally in the Amiga's screenmodes list

The preview screen (the working screen before you render your final images) can be displayed on Amiga, DCTV, Firecracker 24, Ham-E, IV24, OpalVision, or Retina cards, or on the Workbench on unsupported cards that do feature Workbench emulation.

Final images can be directly rendered to Amiga-mode screens or DCTV, EGS, Firecracker, Grafexa, Ham-E, IV24 OpalVision, Picasso, Retina, or SAGE

A Foreign render module lets you render images for graphics boards you don't have installed on your Amiga - you could use this to create an AGA graphic on an ECS Amiga, for instance. No matter what graphics subsystem you use. ImageFX 2.0 will let you use it to the fullest.

ImageFX 2.0 features a series of IMP (ImageFX Multi Processor) which is a new batch processor module that lets you run a process or effect on a series of images automatically, without having to mess with ARexx

IMP can work with single images, a series of images, or Op5 ANIM animation files. IMP lets you do processes such as doing a videocolour-limit operation on all the images in a



directory, or adding a water-droplet effect over a series of animation frames.

Browser is a stand-alone version of ImageFX's thumbnail file-requester which can be used to select image files, animations, and Mpeg streams for viewing.

And as in earlier versions, a complete version of Nova's Cinemorph image-morphing program is included, and fully integrated with ImageFX.

Nearly every individual feature of ImageFX has been dramatically improved - even the most simple have been fine-tuned to the

ImageFX sports a wide variety of image-Toolbox menu. You'll find all the expected

mageFX's new iconbased file requester.

**Amiga Computing** 

There's a lot more to ImageFX 2.0 than I had room to cover here. I haven't even touched on Cinemorph. which allows you to create high-quality single-image or

Or on the full ARexx interface, with dozens of prewritten macros, which adds even more image - and batch-processing capabilities. Or on CMYK support. region loading and saving, or auto-cropping

ImageFX has the best memory-handling of any Amiga image-processing program - not only does it work well even in a system with fragmented memory, agement units

Online AmigaGuide help brings answers (and full ARexx programming documentation) at a press of the Help key And available documentation for ImageFX's operators and loaders means third parties will continue to extend the program's capabilities - some modules,

made out of coloured crystals.

impressive - depending on the grid size, per-

turbation and sparkle amounts you choose. It

can make your image look as it it's being

viewed through a lewel, or as if it's actually

Next is a series of lighting effects, and

these can result in some of the most dramatic

effects of any image-processing program.

These effects not only place impressive stars

and lens flares on your image, but they also

an aircraft image, the fuselage around the

exploding flare will be realistically brightened

the lightning effect - you can adjust the area

around the lightning bolt so that it "lights up"

Lightning is fully adjustable and variable.

Next there's Hockney tiling, a completely

If you've ever seen Fractal Painter on

controllable tiling effect that's useful for creat-

ing emplosive wipes. Finally, there's PaintFX.

Windows or the Macintosh, you've probably

been impressed by the program's ability to

PaintFX lets you choose a brush stroke

and have it applied to an already completed

image, allowing you to automatically create

Painter-like effects. You can choose simple

stroke brushes, or complex IFF brushes for

slouch in that department either. You won't

reproduce realistic painting styles.

By varying the bolt slightly over the frames of

an animation you can create some very real-

istic lightning effects.

TILING

This is particularly impressive when using

as if an actual flare had exploded next to it.

So if you place a bright star effect next to

affect the brightness of pixels around them.

with another in the swap buffer. These include maximum, minimum, fade out and mandala, pantograph, trace through, and rule through.

When drawing, you can choose to have the brush edges feathered out or in, or an aliased I wouldn't use ImageFX to creat images from scratch, but I certainly would suggest it for changing mundane art into the surreal and fantastic.

Placing text on your image has been mag much easier. Multiple lines of text can now be created simultaneously, and you can ever load and save short text files directly into the text requester

All of the draw modes can be applied to text, so you can, for instance, use text to rul through to an underlying image. Similar offects can be created with brush images. ImageFX now supports multiple brusher which can easily be swapped back and form from a brush list. It also supports loading 3s

different graphic formats, from the corr to the esoteric. Actually, one of the supported formats the AmigaDOS 3.0 DataTypes library, so

you have DataTypes for additional formati installed on your system, they're supported

There are only 27 savers, omitting some formats, but realistically you're probably no going to be using your Amiga to create

images in MacPaint or Koala formats You can also grab screens and brusher from the system directly into ImageFX. The program also supports MAGIC, a 24-bil image-sharing standard that is adopted by

others which will allow multiple applications to open and work on a single image buffer. Finally, ImageFX can directly grab images from scanners and frame grabbers. It supports Epson scanners, the PP&S Framegrabber and Framegrabber 256, the IV24 frame grabber, VLAB, and the Sham

Although its input features are strong, as the latest beta I examined, printing was ImageFX's only weak point. It doesn't have the plethora of printing controls and poster creation abilities found in ASDG's An Department Professional. On the plus side, though, it does include

full-featured drivers for outputting to PostScript or the Primera dve-sublimation Æ colour printer.

#### The bottom line

Product: ImageFX 2.0 Supplier: Nova Design Price: TBA Phone: Not available. Email kermit@cup.portal.com, or contact your local dealer



Miscellanu

colour effects, such as colour-to-grey, solar-

ize, negative, etc.; plus a few bonuses such as halftone (nine types, including special brush and alpha channel options) and antique. Filter operations include colour limiting, antialiasing, video filtering, and median filtering.

The Convolve option allows you to do operations such as sharpening, edge-detection. motion-blurs, or relief maps of the current image - it's even possible to create your own. You can composite pictures, using both the

swap buffer and an alpha channel. Image transformations now include not only flip, mirror, roll, and shear, but also fantastic twodimensional and three-dimensional perspective rotations that are much faster than those found in Amiga paint programs

Distort operations include alpha-channel and wave distortion, swirling, pinch/punch, polar blur and mosaic, and spherize

The Dream distortion is a particularly nice effect for use in animations. It creates a wavy. swirling effect, similar to what you often see on low-budget television shows when a character moves in or out of a dream sequence. All of these effects are completely adjustable

The real fun, though, comes under the Special Effects menu. There are 12 menu buttons here, but you'll actually find hundreds of special effects available to you.

The classic ImageFX Remove Feature (remove everything in a selected region by pulling the edges together) and Oil Transfer (makes the image look like an oil painting), as well as Disperse and Roughen, are found Apply Texture lets you map a texture

behind your graphic to make it appear as if it's actually been painted on another surface. Dozens of textures are included, such as bond paper, granite, fibers, sidewalk, tile, stucon tree bark, leather, and woodgrain, or you can create your own in a paint program. Straw makes it appear as if your painting

was drawn on coloured straw - it's a weird effect, but interesting, Crystallize is very want to use it as your primary paint program - working on the preview screen is a bit awkward, although it's been made much less so than in previous releases. You can lock the aspect ratio of the preview screen so that it matches the original picture, and work on HAM8 or high-colour

truly weird effects. Speaking of painting, ImageFX 2.0 is no

preview screens. Almost all operations have been speeded up, particularly the airbrush, which now operates in real-time and has an adjustable radius, nozzle size, and roughness.

There are now a wide variety of drawing modes. Some emulate natural-media: watercolour, crayon, charcoal, chalk, felt tip, and

Others affect colours already there: smudge, disperse, relief, add, sharpen, blur, value, saturation, hue, colour, lighten, darken, and colourize.

There are also a variety of styles, some of which allow you to combine your picture



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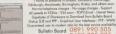
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here is a great need for products like this. If you've ever been subjected to a viewing of someone else's home was you will know this. Wobbly visual words of weddings, birthdays and holidays, mese rambling tapes turn our biggest days

at least now with the help of Hama A-Cut can scrap the irrelevant dross and start ming some structure into your videos

The A-Cut turns your Amiga into an editor the use with most video types including VHS-TVHS-S or HI-8. It is suitable for all players have a Control-L interface, meaning that I can be used with most machines in practice. What you get is a control unit an infrared smote controller and the all important A-Cut withware. Despite all the leads, setting it up is

way with the help of the good quality instructions supplied. Although it doesn't exactly look like £200. the control unit is sturdily designed with a few seasantly simple controls. The source player a plugged directly into the control unit where-

as the recorder is operated by remote control. This means that the A-Cut must be adjuand to match the infrared system code of the recorder. Thankfully this can be done autonatically via the program without too much of a problem.

Once the A-Cut has been configured, the user is presented with the interface. Large dear icons make operating the editor a simple matter, with prompts to guide you through more complicated procedures.

The beginner is well catered for with an online help facility giving explanations on every

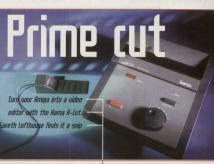


The interface has large icons and displays information clearly, helping the user to create an edit list efficiently,

### Great potential

Clips can be assembled from different

In the moment you open the instructions, this product shows unusual class. A price part in may be the that a good meaning can be alsen for granted, but anyon price part in may be the that a good meaning can be alsen for granted, but anyon the well-planned that the makes defining the required scene sizely. With some distance from the help facility, beginners should be able to become fully fielding on within an hoor of each obligation of each particular should be able to become fully fielding on within a hoor of each obligation of each and the country of the K-cold is to first a shared for the country of the K-cold is to first a shared for the cold in the cold is to the cold in the cold in the cold is to the cold in the cold in the cold is to the cold in th



of detail that gives the package an air of professionalism When it comes to selecting clins from the

source tape, any number of scenes can be defined. To get professional results, accurate single frame editing is possible if the

connected player features RC time code The time code display on the A-Cut interface is the same as you would find in a professional editing suite, giving the user a point of

reference right down to a specific frame. Vital for any would-be editor, the jog shuttle is the most convenient method of finding specific frames accurately. Unfortunately, this was the one area in which the equipment was dis-

appointing. The shuttle's inner ring is fine when it comes to the frame-by-frame viewing of film. However, it only works at one speed so it fails to give the level of control that it should over slow-motion speeds. This is a serious complaint considering its importance in an editing

Much better is A-Cut's edit list which allows you to log each shot by a name with its respective time-code reading. This means that clips can be organised and found efficiently.

videos, although this will involve some fiddling since care must be taken to rewind each tape back to the beginning after each cassette

Once an edit list has been compiled it can be previewed, allowing the user to check all clips prior to recording. The film can be restructured at this stage since clips can be shifted or copied elsewhere in the edit list.

For the Amiga enthusiast, an ARexx inter face has been provided so that A-Cut can communicate with other programs supporting the language. This means that a video film can be produced with a title program in a single operation while editing.

Those with more technical experience may also find the optimisation facilities useful. Most people, however, need not worry about this as the default settings seem perfectly adequate.



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# Tools of the trade



You've mastered the window You've conquered menus and screens Naw Michael Milne shows you how to control gadgets in Alite

adgets have been by far the most brilliant invention of any intuition system. Whether it is Workbench. for the Amiga or Windows for the PC, you won't see a single program for sale without some gadgets.

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> But why are they so popular? Well gadbe found in workbench. With them you can take user input, display information or have your own logos and designs on screen, and all this comes with such relative ease that almost puts you to sleep.

> So how do we do it? The first thing that you should know about gadgets in Blitz is they are handled in groups. A group is made up of a window full of gadgets - i.e. all gadgets relating to the gathering/display-

> ing of information for one purpose. An example of such a group would be for a database file where one group of gadgets is used to take name and address information from the user.

isk

The easiest way to group gadgets is to remember that they can only be used in windows and only one group of gadgets can be assigned per window. After you have decided which gadgets you need and for what purpose, you can then continue with the declaring of them. Yes, that's right, Gadgets are just like menus in the sense that they need to be declared before they

can be used. This is how we do it. A typical "Textgadget" is as below:

#### Textpadget 0,10,10,0,1, "Mello there!"

If you check your reference manual, Chapter 26-1, you can see that the first number is the group id number, or as Blitz calls them "GadgetLists"

After that follows the X,Y coordinates which are both relative to the top-left corner of the window in which they will be used. Then follows the flag parameter which is

used for extra functions, which can be seen on the table on the same page I have currently set this to zero which makes the gadget a plain text gadget, but if

I had made it equal to one then it could be toggled on and off by the user After that is the gadget's own id number

so that we can identify the gadget itself and



In a word, yes. If you are having problems with getting those old gadgets to work with the new ones then don't despair as help is at hand. In the last issue I mentioned about subscribership to the Blitz User Magazine with con-

tinual updates to the Blitz language. Well, if you are a subscriber then you should have received issue number six. On the new libs included on the disks are some extensive updates to the gadgets' and

gadgtools' libraries, making them almost completely compatible. Therefore, if you are experiencing difficulties with gadgets and gadtools and you are not a subscriber, write in straight away to: Blitz User Magazine Subscription, Guildhall Leisure Services, Unit 15. Guildhall Industrial Estate, Kirksandall, Doncaster DN3 1QR

the text which appears inside the gadget. After you have declared all your gadgets you are ready to start using them, which couldn't be simpler as all you have to do is to extend the window command by one more parameter - this is the gadget list id number which for the gadget above would Here's an example to demonstrate. First

of all we need all the usual things for

×	ė							
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	ŧ			è	ė	'n		
è		ı						

#### Now let's define our gadget:

TextGadget 0,20,18,0,1,"Click on me to Guit!" and open our window as the active window

with our gadget attached: Window 0,120,70,200,40,\$1000,"My Window",1,2,0

We can use the Events system, as used in

the last tutorial, to wait for the user to press our gadget. This can be done by waiting for

As you can see we can also check to see which gadget was hit by using 'GadgetHit' Now we just close down:

and run the program and you'll see how easy it is to produce an interactive

window with gadgets in only twelve lines

Gadgets: Simpler than buttering toast!

## Window

#### Quit! to Click me

By now you should have noticed how the grouping system of gadget lists works and how you can see which gadget was hit by using the id number

If you have two windows open and you have one gadget list for each then don't worry, because you can still find out which window the gadget came from.

You can do this by using the EventWindow command which tells you the id number of the window. Then you can check the gadget in the same way as above and you'll know which gadget was used from which list, by knowing which list was assigned to which window.

The gadget just used is one of the four basic gadgets which the Amiga 500 supported, the others being: Shape Gadget, String Gadget and Slider Gadget. But if you own an Amiga 1200 then you'll

almost definitely know about theGadtools extension to the old gadgets, bringing almost complete flexibility to your programs. Gadnets You declare them at the beginning just like menus and gadgets and you can even out them in the same Gadget list as normal Gadgets.

The difference comes in attaching them to a window. You still put the GadgetList parameter at the end of the window command but you also need to add another command after you have opened your

This command is:AttachGtList. This command has two parameters - GadgetList Id number and Window Id number. So if we had some GadTools in the previous program we would add the following line after opening our window:

Now let's actually add some GadTools to our program. Remember you can only proceed with this section if you have an Amiga 600 or higher. Workbench compatable:

Now let's define our gadget and gadtool:

## Teatfadget 0.20.18.0.1.\*Click on me to Auit!

with our gadgetlist attached:

attach our GadTool:

Retrieuing and open our window as the active window information

In the original gadgets there is only one major gadget which can gather information from the user and this is the StringGadget. The string gadget has an area of memory dedicated to receiving information from the user when he/she uses that gadget.

There are several options which you have in controlling these gadgets, ranging from pre-setting the contents of this gadget to clearing them completely, as well as being able to read the contents.

Here is a quick list of the commands to hand:

ClearString

(See Ref.Manual Chapter 26-6 onwards for parameters) If you wanted to pre-set the string with a response you can do this with theSetString command, whereas if you wanted the StringGadget cleared before the user uses it then this can be done with ClearString

There is one thing to note about StringGadgets, and that is they have to be activated before the user can enter information into them. This is normally done when the user clicks on the gadget with the mouse and is

shown by a cursor which appears in the gadget. But if you wanted to ask the user a question and then make him/her write the response in the gadget, you can do this with the ActivateString command and then wait until he presses return (Event code 64). To retrieve the response that was entered into the

gadget into a string variable, you use the StringText\$ command detailed in Chapter 26-5. Information from GadTools can be retrieved in almost

the same way by using GTGetString to retrieve information from GTStrings and by using GTGetInteger to retrieve information from GTIntegers.

The only other information retrievable from a GadTool is one of its tags, as explained in B.U.M.#5, by using GTGetAttrs. Here is the syntax for the GadTool retrieval commands as I don't think they are documented anywhere:

StringS-676etString(GadgetList, 16)

Well it's time for me to say goodbye but don't forget, keep practicing and try out as many gadgets as you can, as only practice will make you confident enough to

In the next issue I will start on the first part of a WorkBench compatible program, using all the information I've tried to cram into your heads in the last three issues, including this one.

HELP is at hand



I you have any questions that you have any questions that you have a didressing from reading the column then you can write to Michamiline, Bitzing on the Amiga, camiga Computing, Europres Publications Ltd, Europa House Publications Ltd, Europa Hous-Adlington Park, Macclesfield SK1 4NP. (NB: Please state what machin you are using and any periferals yo

then we wait for the user to press our no mal gadget by waiting for the event cor \$20 and close down:

And as well as showing the simplicity GarTools this also demonstrates the cor update brings between Gadge

My Window This is an info box

Notice our new GadTool under the original or



Just a taste of what GadTools can do for yo

Unfortunately there is one minor proble with GadTools, and that is that you can use events to tell you when a GadTool ha been pressed (i.e. Event = \$20does n

So the only way around this is to wa until the GadgetHit command returns ti right GadTools Id number instead of wa ing for the event code.

In a way this can be used to your advar tage in the sense that if you have a gado list of both gadgets and gadtools mixe together, you can determine whether or n an old gadget was used if an Event of \$2 is returned. If not then you know that GadTools was probably used FR

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ake two stereotypes - the typical exercise fanatic as perceived by the general populous. A health moscious, active and thoroughly bodyrained individual who likes the outdoors. muts high fibre food and believes that their nodies are indeed temples.

The commonly perceived computer nut mough is decidedly health ignorant, inactive other than the stabbing motion of fingers on envisoard and believe that their bodies are usually the equivalent of a Sainsbury's TV

These extremes are changing as we speak, as more and more people from all malks of life realise that computers can make life much easier but, when confronted with a program to aid body training, the two seemingly alien-to-each-other hobbies still ar in the mind somewhat.

Heart Track, to the initiated, is a utility to help monitor that vital organ's activities durno exercise. To the uninitiated the heart is a pump-like vessel situated slightly to the eft on your torso. Opening the box reveals a single disk, a chest hand, a transmitter and

The process is simple. Attach the transmitter to the chest hand and out it round your rippling torso, plug the receiver into the Amiga, load in the software and you're in possession of a package that senses ECG

signals The transmitter captures these and sends them to the receiver, which in turn pumps them in to the program to be displayed on

screen for your delight. That's it. Well, almost. Also included is a foam hoop that apparently (although it's not clear at all) attaches to the handle of an exercise bike or other contraption which then allows

you. I assume to fix the receiver onto this must finde Heiniter U.S. \*1983 Healthcare Technology Ltd. P.





ult the graph for an

with a Velcro band for a more consistent eignal. The whole affair is just a touch flimsy and, as far as I can see, pretty redundant

The program itself offers an extremely simple-to-use system, mainly due to the fact there really isn't that much to it. If you just want a general heart reading, pressing on start begins the monitoring.

For the more serious users, schedules can be created which cover the four basic areas of training - warm-up, work, rest and

By adjusting the time of each and the desired heart minimum and maximum limits, the computer keeps a track of each session, providing the user with a countdown and a warning alarm when you step out of the predefined heart parameters.

Once the exercise session is completed. a graph can be called up detailing, via



colour coding, your heart rate during each stage of your workout. These results can be saved or printed out for future reference and for Charles Atlas "before" and "after" comparisons later on.

#### RANGE

Due to the fact the whole thing is wired into the Amiga, it's hardly the most portable of devices. It's range is a rather limited four feet but can be increased through the use of an additional Infrared system that

expands the range up to ten feet. While being ideal for running on the spot and multi-gym work, for the more active punter this is obviously limiting.

Heart Track sets out to do a simple task and achieves its goal very effectively, but the real question is whether the package is really worth £95

The average price of a wrist watch with the same facilities but minus the hefty equipment is around the same price bracket, give or take five pounds.

Because of this, it's hard to recommend something that at the end of the day doesn't offer the versatility and portability essential to the all-round sports person. On



Design your own schedule by deciding

the time of each section and heart rate targets within them. Then save them for

Computers, exercise, Exercise, computers, Adam Phillips reviews a product that bridges these two previously apposing pastimes...

HEART TRACK

Personal Fitz

Training System

the other hand, if you're a couch potato exerciser with an Amiga who desperately wants to get themselves in shape but are frightened to step outside in case the sun actually touches your white, opaque skin, then this is a relatively useful product at a relatively hefty price. ES

SOFTWARE



Supplier: Healthcare Technology Limited Phone: 0243 528800 Price: £94.95

Ease of use Implementation Value for money\_ Overall\_

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# A liberated MOS users all around the world

MOS users all around the world will no doubt have been feeling arther dejected just lately. Francois not given much thought to the product and Europress have had to put a halt on developments.

This has led to other languages stealing the limelight away from the package that since ruled supreme.

All is not lost though. There are still thousands of dedicated AMOS users and, white a sizeable user base remains, third-party evelopers will continue to cater for their meds.

One such company is the Ayr based T-Soft who, after several months of developent, have released their official Liberator attension — a product that releases AMOS from many of the constraints that bind it.

In short, it enables AMOS to access over 1300 functions from 47 Commodore and mird-party libraries. Unfortunately this means that you will not know where to start.

The possibilities are endless. With access to the Intuition, Dos. Req and Rexchost libraries, you will be knocking up your own system-legal utilities in no time at

#### SUPPORT

Further more, because Liberator provides support for the Intuition library, the program can open up its own window upon the Amiga's Workbench screen and multitask properly. Something that was simply not possible until now.

That is not the end of it. Liberator is com-

That is not the end of it. Liberator is compatible with all Commodore library calls, including those available in version 3.1 of the operating system.

Those that have a data burst cache between their earlobes will realise that this, coupled with the Intuition support, means AGA compatibility. Well almost.

With Liberator installed it is possible to

open up your own AGA screen from within AMOS. But unfortunately, because of the on OS friendly manner in which AMOS handles screens, you will not be able to use any of the commands that display text, graphics, Sprites or Bobs.

However, you could establish your own

Viewport and display images in 256 colours or even Ham8. Useful if you wanted to write a GIF or Joeg viewer in AMOS.

a GIF or Jpeg viewer in AMOS.

The commands that access the library functions are almost identical to those used in C and other high-level languages, but

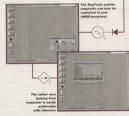
here is one advantage.

Because you are programming in the AMOS environment you also benefit from the editors syntax checking, something that C programmers would love.

Lets say that you wanted to utilise the file

# society

No matter how hard people try, they —
can't seem to nail the lid down on —
AMDOS. Andrew Deeley looks at a —
product that promises to breath a bit —
of life hark into the ailing language.



requester from the ASL library. Once you had set up an array to hold the parameters required by the function call, you would type:

In the above example, REQ holds the address of the parameter array and, if successful, FILE returns a TRUE value that points to the file name chosen by the user. If you were to write the same line in C you might type:

#### file=aslrequest(EREQ,0)

As you can see the two are quite similar

## Coming soon

The best is still yet to come. Close to completion is an upgrade for Liberator called OrgAsm (which stands for ReCRGanised ASseMbler) a really exciting utility that turns GUIs, created with GadToolsBox, into a form suitable for use with Liberator.

For those that do not know, GadTootsBox is a shareware development tool that allows you to design your own front-ends in a very easy and intuitive manner.

Having designed your GUI, GadTools will then create the source code that sets up and communicates with your user interface.

When released it will cost £2.50, as will all further updates to Liberator, which among other things will include an AMOS Professional version.

Liberator's documentation is supplied as an Amiga Guide file and provides you with all the necessary information concerning its installation and use.

Instructions concerning all the various function calls are not supplied. However, you are told where to get hold of the Commodore Autodocs and an address is given for a PD larary that can supply Arniga Guide documents for all the third-party libraries.

Learning how to use library function calls is not all that difficult, especially if you have already gained a good knowledge of programming in AMOS.

#### LEARNING

On the other hand, beginners will no doubt find a learning curve ahead of them. Although, as the programmer says, "This learning process is what keeps us addicted to the great Amiga, so don't despair!!"

releases that AMOS has seen in a long time. I cannot see it convincing those of us that have already moved onto other languages, such as C, to switch our allegiance back to AMOS, but it will certainly brighten up the lives of those who have stuck with this legendary programming package.

#### The bottom line

Product: Liberator Supplier: T-Soft Price: £22.50 Address: PO Box 598, Ayr, KA6 6PI

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t one time, colour font applications were expensive but these days you can pick up capable packages at reaches prices. 2 Many Forts is cheaper than the commercial offerings in this area, but at 35 6 fis not exactly a rain, 50 is if worth it? Over 100,000 colourfont combinations! The same boast on the front of the box, a claim as impressive but perhaps misleading, in the same package the processing the combined with 205 seams a think package and the combined with 205 seams.

Nevertheless there is ample room for experientation, especially considering 2 Many forts is used in conjunction with paint pro-

gams like DPaint or Brilliance.

Setting started could have been easier. The sackaging is cheap and the introduction amual is put together in a rather shody manuer. I'd have booed for more considering the

ce. Furthermore, we'd recommend manual statistion if you're planning to use a hard disk. The typefaces themselves aren't too impresses. Too many of them look like left-overs from its album covers – not too useful if you're winting to make video titles, for example.

what's more, there are only two font sizes, though at least variation can be achieved and italics or bold. On the plus side, antiasing is good, giving the characters smooth

The program does offer a plethora of brushwith which to create your fill patterns. These grouped into five categories: designs, patms, textures, gradient fills and environment

Using these you can develop fonts with anyming from simple gold textures to detailed segons resembling walloper. The quality of the patterns is variable, but given the amount achoose from this is not a serious complaint. As you'd expect, these textures are fully

erchangeable with a stack of palettes, mough the brushes usually look better in their shuft colour. A small but time-saving addition is the

ule so that colours won't bleed on the video creen.
Time-saving in general is an advantage ou'd particularly look for in a package like this, or in other areas 2 Many Fonts doesn't seem



# ABCDEFG ABCDEFG ABCDEFG ABCDEFG ABCDEFG ABCDEFG ABCDEFG ABCDEFG ABCDEFG

# A B C D E F A B C D E F A B C D E F A B C D E F

# Planned funts

With a name like 2 Many Fonts,

here's a package that promises a lot.

Does it really offer tantalising titles or is it just another font parkage?

Gareth Lofthouse investigates

as quick and easy as it could have been.

Once font and brush styles have been selected, it basically becomes a matter of knowing your way round your paint package well. Beginners might therefore struggle—thankfully there's a helpfine you can phone.

#### VARIATIONS

The manual gives some examples of the sort of variations that can be created by using, for example, DPaint. The fort appearance can be altered by resizing a brush, or by adding thicker edges creating a bevelled

Once typed, a title can be picked up as a brush and dragged several pixels along, creating an effect similar to a 3D extruded title. Fonts can also be given shadows using DPaint. These are a few examples of the variations that can be made, but Mediascape can't take much credit in this respect. These enhancements rely entirely on your use of the paint package.

Initially 2 Many Fonts, with its range of colour typefaces, may seem like good value. However, the fact that there are PD colourfont packages available ranging from £5 to £15 puts things into a different perspective.

With PD software offering hundreds of clip fonts and the ability to edit them, it is hard to see how 2 Marry Fonts can justify its relatively high cost.



The utilities disk supplied gives you examples of some of the variations that can be achieved using your paint package

The bottom line

Product: 2 Many Fonts Supplier: Meridian Software Tel: 0533 863501 Price: £59.95

Ease of use Implementation Value for money Overall

2 Many Fonts could have been a welcome addition to anyone's software collection if it had come at the right price. As a source of textured fonts it is a good enough product, offering a wide choice of brushes to enhance a title's appearance.

The trouble is, that's about all it amounts to. When it comes to playing around with the lists, it's a matter of reaching for your DPaint tutorials.

This raises the point that you could design any of these fonts and brushes in DPaint or Brilliance yourself with the aid of some PD colour font packs, so unless you're very short

of time the advantage of using 2 Many Fonts seems small considering the cost.
It's not going to make things a whole lot easier for the beginner either. A sub-standard surplanatory manual and awkward implementation creates some confusion, even for those familiar with the ins and outs of their paint program.

If cash in a problem and your looking for a collection of pre-designed fill-textures, 2 Many Fonts should be considered. Images are of sufficient quality to use at, say, the low and of the video market. For most people, though, its not worth the asking price. Offering little more than the cheaper alternatives, 2 Many Fonts costs too many pennies. 5

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# Install with Steve White opens the door to creating -**P**35P

your own installation scripts in our quide to using the official Commodore Installer -



p until recently the Amiga has never had its own totally dedicated installation program, and in the past hard drive owners have had to wrestle with AmigaDOS script files, programs that shut out the Workbench environment, installation procedures where flexibility goes out of the window and many programs that are installable, provided the user does it by hand. Fortunately. Commodore came to the res-

#### Speaking the language

que by developing an installation program that could be programmed by anyone, was totally flexible and could function guite happily from This program - Installer - is now used

by most software developers, although game developers continue to neglect its advantages

What this tutorial aims to achieve is to teach you how to use the language and apply it to your programs. However, I will not be concentrating solely on hard drive users, as Installer is quite capable of installing software to another floppy disk.

In order to follow this tutorial you will need to own an Amiga running Workbench 2.0 or higher. Obviously, you will need to apply the



Part 1

techniques you learn in this series yoursell as I cannot write example scripts dedicated to software which I know nothing about. There will be plenty of examples, but these will be purely for demonstrative

purposes. You should copy the Installer program found in the C: directory of Amigi Computing Cover Disks into the C: director

of your hard drive or floppy disk Installer was created by Commodore as a tool for hard drive owners and floppy owner to install software with the minimum amount of fuss. It allows total control over installation procedures, offering the user a friendly inte

face to work with in a familiar environment-Workbench It is this flexibility that makes Installer so

Now we've got that out of the way, let's take a look at the language. The language offers different procedures for installing different types of file. General files, Each routine has its own associated commands

applicable to the type of file being installed. This into easily readable modules, which makes debug-

What we'll do now is take a look at a particular rou-As an example routine, we will be looking at the one which installs libraries. I will show the routine and

then describe each function individually. show a compile error. These functions will be labelled.

erosot "Isstalling diskfoot, library to LIBS:")

Let's take a look at each command to see what they

actually do

This tells installer that the routine that follows should be understood as a library routine. We don't end the cocylib function with parenthesis ) until we have fin-

(prompt "Installing diskfont.library to LIBS:")

This function merely tells the user what is going on. If you don't want to display a message simply type prompt ". Both parenthesis are included () because this function is classed as an independent command. Prompt must always be present.

Installer has certain in-built help pages which are displayed when you click on the Help button on the main

Installer interface. If you wish to add your own help text you can, but I will be explaining this process later on. Help must always be present.

This tells Installer which file it is that you want to install. It is always best to first copy everything you wish to install into Ram as Ram is faster and also eradicates multiple disk swapping. Source must always be present. (dest "LIBS:")

This tells Installer where the source file should be copied to. This must be a valid assign or path name. Dest must always be present.

Confirm requires you to okay the copying process by clicking the Proceed button. In the case of libraries. confirm will inform you if you already have that particular library in the LIBS: directory. It will also inform you of the version number of the

library being installed and the one that is already

Whenever a file is copied a blue bar appears indicating the progress of the copying process. You can muerful. It has the ability to cater for all mas set-ups and is also capable of providerror script files should something go

The Installer itself is not capable of instalmon alone. In order to function it needs a medial script file which it translates and executes. It is the script file language

shall be looking at. The language owes most of its structure Lisp, a language which relies on the

my use of parenthesis or brackets (). The parenthesis control all the functions the language and therefore debugging

#### MASTERING

However, once the actual functions have understood, more time can be spent making sure the parenthesis are correct and once these have been mastered, the mire language becomes much clearer. The parenthesis control the functions in

much the same way as parenthesis in - thamatical equations - that is to say that me amount of open brackets '(' must be maily matched by the amount of close mickets ")" and vice versa. This is where must of the errors creep in.

Below is an example Installer script. This mample's main function is to show the use parenthesis (don't worry about what it mes right now):

mount of close brackets as there are open mokets. It is very important to get the bracamounts equal otherwise a compile error

in order to successfully install a program

the processes Installes An icon is attached to the rint file which in turn is directed to

tonname command in the icon Too Types tells Installer to print the message Welcome to the installation utility when it is run



via Installer, there are certain files that are needed. Apart from the actual Installer program, you also need the installation script file and an icon which when double-clicked loads and then directs Installer to your script.

The icon must be a Project and must be attached to your script file. For example, let's imagine you had created a script file called InstallMvProg. You would save the Project icon as InstallMvProg.info to the same directors

With the icon complete, you then need to direct it to Installer Clicking once on the icon, select Information from the Icons menu on Workbanch and where it reads Default Tool: type in the path of the Installer - say MuDisk v/Installer as an example

Add a new Tool Type to the icon and type

#### APPRARIENTEDS

The Appname Tool Type is needed by Installer when it prints Welcome to the installation utility. In this case it would display:

You will be adding other Tool Type commands

to the icon at a later date. For a visual description of the above, check out the diagram. In next month's article I will provide you with

a complete Installer script using the routines explained this month and a few extras so that you can gain a good impression of how to set up a fully working script. 1500



Thanks to Commodore's Installer program, users can easily install software to floppy or hard drive



The script language is difficult to learn, but once mastered groves extremely powerful

monse to turn this off with the nocusage function. If it

has basically ends the routine by closing the parenmesis opened by (copylib. You must make sure sopen brackets, otherwise a compile error will

Hopefully, this will make sense and you will begin see the way in which the Installer language

At this moment in time you will obviously still know enough about the language to compile own scripts, but the Installer language dictates

So at the end of this series I will provide a com mete listing of the routines and their associated Let's now take a look at another form of copying,

Time on files. Take a look at the example and

As with copylib, but this routine expects to copy files rather than libraries. You could use copyfiles to install a library but it is best to stick with the dedicated routine.

(prompt "Installing MyProg program")

This is the same as the first example and is used to inform the user what is happening. Must be present.

Same as the first example but displays the help information associated with the copyfiles routine. Must be

The file that is to be installed. Must be present

This is the same as the first example, but the destination is contained in a variable called @default-dest. This variable would have been set earlier by the user

This tells Installer to copy the .info file (icon) of the file

be explained later. Must be present.

Finishes the routine called copyfiles.

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THE EASYBASI		HOW TO You can either tick the titles y		EASY PD OR	DER FORM

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# What's o the menu

dssembler

here's an amazing amount to get through this month and we kick off with the Gadtools approach to menu creation. Gadtool menu definitions are based on sets of data blocks called NewMenu structures that, to the 580x0 coder, looks like this:

STRUCTURE	Neufens,0
UBITE	gos_Type
UBITE	ges. Pad
APTR	gns_Label
APTR	ann Connter
CACAD.	gom Flags
LONG	one MatualExclude
APTR	gen Userbata
LABEL	gen Sizenf

know these pseudo structure units seem a bit frightening but don't panic - we will not be using most of the fields and I'll be restricting my explanations just to the fields

The gnm\_Type field is used to specify a

neng	dr.b	MR TITLE, O
	dt.L	menu title, NULL
	dc.v	0
	deil	O.MUL
	de.b	NW ITEM.O
	deil	itemO.comekevO
	dr.v	0
	de.l	O, WILL
	de.b	MM_ITEM,O
	dt.L	item1,commkey1
	dt.v	0
	dt.l	0.WLL
	dt.b	NN END.O
	dt.1	MILL MILL
	de.w	0
	dt.l	O, NULL
menu title	dr.b	'PROJECT', WULL

Listing 1: A 680x0 gadtools menu definition

SetVisleto movem.l

Paul Overaa tackles the next stage of his example utility by adding some menu and message handling code...

menu title, a menu item, or a dummy 'end of menu' value. Standard definitions are:

ANTITLE MITTER MEEN	EQU EQU EQU	1 2 0

The gnm\_Pad field is always zero - it's just there to ensure that the next field is word aligned). The only other fields you need to worry about are the gnm Label and gnm CommKey fields, which are pointers to text strings giving a name and a keyboard shortcut for the menu item.

The menu I'll be using is very simple. It's just a PROJECT menu with two entries: "Select File...." and "Quit To Workbench" and all we do to set up the NewMenu structures is define some data statements to represent the menu title, the two items, and a terminal end entry.

Take a good look at listing 1 and compare my field definitions to those given in the NewMenu definition - all should become clear in a relatively short space of

Notice incidentally that the structure holds pointers to strings - that's why I've defined the strings using separate dc.b pseudo-op statements and placed the corresponding labels into the NewMenu defini-

Attaching a menu to a window is not easy because several steps have to be performed. Firstly, we have to make a call to the Gadtools GetVisualInfoA() routine and on exit a corresponding FreeVisualInfo() function has to be executed.

Secondly, a CreateMenusA() routine

must be executed. This too must be coupled with a FreeMenus() function before the pro-
gram terminates.
Thirdly, a call to LayoutMenusA() must be
made. This needs to be checked for success

but there is no corresponding de-allocation

Part 3

Finally, the menu can be installed using the Intuition SetMenuStrip() function and ClearMenuStrip() call prior to the program

#### ROUTINES

So, we've got a whole load of routines. any or all of which could conceivably fail as we try to attach our menu. If an error did occur, we would have to ensure that only those routines that had been successful get their equivalent de-allocation routines executed.

Now you'll know from last month how I'm handling this problem. Each task that has to be performed is being written as a sub-routine pair that contain the initial settingun/allocation code, and the corresponding

Whenever a routine is successful the deallocation routine address gets pushed onto a de-allocation stack. Listing 2 contains one set of the new routines - you'll find all the

Study these arrangements well because they form a coding pattern that I'll be using

We preserve some registers, set up and make the required function call, check for any errors and then either return an error

Listing 2: It's

important to grasp the underlying plan

```
Segment state actions are seen to the second seed of the second second seed of the second sec
```

handler routine

# Collecting the pieces together

Once the various routines had been coded it was just a matter of getting them executed and, for simplicity, this sort of code was chosen:

far Lockic	reen
beg.s closed	love
isr CetVis	
beg.s closed	lown
(SF CornWi	ndow
beg.s closed	lown
isr Create	Acre
ben,s closed	041
jar Laynot	tere
beg.s closed	(ren
jer Install	(Recu
beg.s closed	cen

The closedown routine discussed last month does of course handle all the new error/non-error closedown operations automatically although, as far as calling the above routines is concerned, I ought to mention that there is a rather more elegant list/loop based approach that can be used instead.

At the moment however, so you can see the various stages as explicit steps, I'll continue making a linear series of sub-routine calls, By the time the above roufileMandler momem.( d0-d4/00-a),-(all) preserve some registe ; notice how I've included a call to this domey ; routine at present. This allows are to structure ; the GetMessagel code even though the file handler ; does not (yet) waite.

movem.i (a7)+,60-d4/a0-a2 restore some registers

Listing 4: A useful dummy 'Display File' event handler!

down routine onto the de-allocation stack.
The message system used on the Amiga

The message system used on the Amiga is, at the grass roots level, an Exce facility. Information can be sent from one-task to another by creating a data packet known as a Message structure and then transmitting it (sending it) to its destination.

Messages pass between tasks using another Exec defined structure called an MsgPort, more commonly called a "message port" or just a "port."

Ports are basically software entities whose job, among other things, is to act as a receiving station for messages.

Before a program can receive a mes-

sage it must have allocated and initialised a suitable message port and the good news here, as far as our program is concerned, is that Intuition will have automatically set up the required port (called a User Port) automatically. Gaddools-created menus are quite easy to handle hecause the messages sent to the

window's user port are just conventional IntuiMessages. As with all Exec messages, the real message data is always provided as a message

For other examples of function utilities relating to the listings given here, see the Assembler file on this month's cover disk which also contains the usual Assembler code. structure extension and, in the case of IntuiMessages, the data packet ends up looking like this:

STRUCTURE IntuiNessage,0

(basic message structure. Subsequent fields are the extensions that provide the real (fatal)

roal data)

(35) in\_((1)xx

(37) in\_(1)xx

(37) in\_(1)xx

(37) in\_(1)xx

(37) in\_(1)xx

(37) in\_(1)x

With only one port to look at there is a simple function, called WaitPortt), available tuse and we use it to wait for the window user port to become non-empty, then colect and examine any messages that has arrived.

Listing 3 shows a simple menu even handler that performs this task, and you see that message class and code value are used to decide whether we have a menu event and, if so, whether the code value indicates that the message should be ignored or not.

If you trace through the code you'll se that the only messages of interest a MENUPICK messages, whose item cocorresponds to either menu event 0 (seleca file) or menu event 1 (quit to Workbench Function definition box-outs are no

Function definition box-outs are nobeginning to encroach on the space should be using for explanations, so the month, although I've included a few boouts (see CoverDisk) for the menu relate functions you are expected to get the use details from the source code.

You'll notice that the delay loop from a month's code has been removed becauthe window will now stay open until be "quit to Workbonch" menu option is seen ted (this option causes the menu handa routine to return so that the code execution falls through to the closedown code). On the Devpac specific front incidents.

you should notice that I am now beginned to make quite a lot of use of local label beginning with a period.

If you hit snags with a non-Devos

assembler you'll need to get hold of par two for details of alternative conventions. Anyway that's it for this issue.

 Next month we tackle some ASL to requester issues so until then, may any your coding problems be little ones.

tines have executed without error the menu will be set up and active – so we can call the event handler by loading an address register with the address of the window, loading the user port address, and passing that walle to the menu handler routine like this:

moves.i window\_p.al moves.i wd\_UserPort(a1).e2 user port addres jsr MenuHandler bandle user actions

Notice incidentally that I've used a dummy call to a file handling routine in this month's code. The reason should be prefit obvious but I'll have more to say about the menu handler next month. For now here are some final notes to help with this month's code:

Firstly, you'll be able to assemble the code using the

because, at the moment, I'm continuing to use standa Amiga system definitions but placing equivalent defitions within the source rather than using the officiinclude files.

This means the program can be assembled with any assembler – even if you haven't got the official locksteel.

# AMIGA SUPPLIES

0442 233393 CALL 0442 233393 CALL 0442 233393 CALL 0442 233393











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Dave Lusick is practically skint, so there's no better man to pick out this month's most outstanding public domain.

sharpulare and licenspulare releases

Once there lived a man who owned a goat, upon invest in many extravagant gifts to shower upon it, intend-

Meanwhile his poor neighbour, who also owned a goat, had precious little money to fritter away on frivolous fan-

Then one day, the first man got a message from his And yea verily his neighbour did chuckle for three whole

And believe it or not, Amigas can be a bit like goats. In

#### Duinan

Programmed by: Mat Fascione Available from: Magnetic Fields Disk No. GA196

There are some people who have a natural knack for doing incredibly well on those pub quiz arcade machines, standing in front of the thing for hours, pumping in streams of ten-pence pieces, racking up huge scores and often watching piles of coins build up in the winnings tray The rest of the population lack any kind of ability in the obscure trivia department

Prepare to say "Blimey, I don't know that" quite a lot - it's Quingo

but nevertheless love participating, as is evident by the outstanding success of that

If you can't stand collecting pieces of pie but still yearn for the challenge inherent in plucking long forgotten dross out of the dark depths of your mind, then Quingo is

It combines often horrendously taxing multiple choice guiz questions with a scoring system borrowed from bingo, to produce an interesting, if fregently frustrating

What was on the B-side of the Strangler's "Peaches"? Which geological period first saw the reptiles as dominant species? These are the sort of brain-bending teasers you will have to contend with However, since it is impossible to transfer winnings into usable credits, many will

find it practically impossible to win more than a counte of quid The difficulty level is sometimes fiendishly high, but nevertheless Quingo does hold the attention for a while.

#### Please Release Me

Programmed by: Iain B McCaffrey Available from: NBS Disk No. P159

Worthy of a mention, if only because it raised a fair bit of interest when first played, this extremely short animation cannot really be described without giving the whole joke away.

You'll need a 2Mb machine to run it, for some reason. Once it has eventually loaded, there's a nice sample of the



(Very) small but perfectly formed, Please

Available from: David J Cruickshank Disney may have had a box-office floo or

their hands when they came up with cut sci-fi classic Tron, but they were unwittingly inspiring hordes of programmers when they dreamt up the infamous light Unfortunately, there have been

very few decent computer versions of on slipping this particular disk into the I need not have been concerned, how-

professional game which boasts a whole

It also offers the chance to involve up to five players in the PD demo version

animation which lasts a matter of seconds - and that's about it, really

Still, it's quite amusing the first couple of times and for that reason alone it might beworth a look.

#### Operation Firestorm Programmed by: Phil Ruston

Available from: Amiganuts PD Disk No. LW26 Remember Green Beret? It was the ulti-

mate 8-bit walky-shooty game, and while the gameplay wasn't exactly mentally demanding, it provided amusement for well, maybe a couple of minutes For the uninitiated, in a walky-shoots game you take control of some fellow

who's either incredibly brave or incredible stupid - or more likely both. He wanders from left to right brandishing

a large weapon of some description, which he uses to ensure that every other moving sprite on the screen is removed. At the same time he occasionally

makes the effort to dodge enemy fire because if he takes one too many hits he'll explode. The emphasis, the astute observer will notice, was not particularly on realism The cynical might ask, why bother

resurrecting such a tedious genre of game? Well, commercial games producer ICE tried it with Fireforce a cou ple of years ago and it wasn't actually too

I suppose this version could be a lot worse. It's well presented with reasonable graphics and adequate sound, although the aging coin-op style wibbly music quickly gets irritating.

There are bonus weapons to be picked



Chaos is excellent fun

good company mingling with the likes of me facility to add up to 60 computer-conmolled Wall Hoggers, or to tailor the speed to suit your ability, or even to comeffects, which appear to have been sam-



could be spent crowded around the key-

Bunny-munny action with Operation Erestorm, a blast from the past that ight tickle Green Beret fans' fancies

up, with which the enemy ranks can be more easily decimated. Fanatical fans of the genre will enjoy it. although it's not really my cup of tea.

#### Ask Me Another Programmed by: Gina Mears Available from: F1 Licenceware There are a wealth of educational programs

knocking about in the public domain, but Ask Me Another is especially well presented if not awe-inspiringly original. A selection of games are available, rang ing from telling the time to completing words, and common to them all is the simtoo

ple interface.

The guestions are displayed in the topleft section of the screen, with possible answers listed on the right. Each answer is given a number, and the user clicks on one of ten little buttons in the bottom-left corner to enter the answer

Instructions can be displayed on screen

from the main menu, and there are two "packs of cards" each with ten

different games included. The difficulty level ranges from pretty low to relatively high on some stages, although not frustratingly so.

Correct answers are rewarded with praise from the infamous Amiga "voice" and incorrect ones are met with a "Try again" message. Get a question wrong the first time and another go is granted before the computer moves on to the next one.

Unfortunately, if it's wrong the second time the program does not point out the correct answer, which seems a little strange for a piece of educational soft-

Despite this, Ask Me Another is still an interesting program and if you can afford

Programmed by: Andrew Campbell Available from: Bus Stop Licenceware

One of the most powerful and fun to use art packages to have appeared for a considerable time comes in the shape of this shareware production aimed squarely at younger users.

A whole host of bizarre drawing tools enable the on-screen imitation of all manner of primary schoolstyle artwork. Unique tools such as runny jam (which drips if the pointer is held still for too long) and messy comb are present and are great fun to use

Other features include a selection of flower and plant parts which can simply be stamped on, and in the full registered version a selection of built-in pictures is included. Standard load and save options are of course present.

Silly sounds accompany most actions and these further add to the appeal of the product to children.

However, it isn't missing any of the features you would expect to find in a traditional art package and

## falling all PD libraries....

you haven't seen reviewed yet, why not



Impressive educational title Ask Me

the time to supervise the child's use of it. then there is no reason why it should not prove a rewarding and beneficial activity.

#### Strike

Programmed by: Simon Camilleri Available from: Bus Stop Licenceware-

Ten pen bowling is an unlikely yet game, and Strike proves to be not only well designed but also guite playable.



when combined with some of the more wacky effects. quite impressive pictures can be created.

experiment artistically. The only problem may be pris-



All the fur without these enneying shoes which never fit properly - and that ball's on target for a Strike

Graphically it is simplistic and only around a third of the main screen is actually devoted to the action, but to be honest the visuals are not important since Strike is engrossing and good fun to play

A smattering of sampled sound effects add atmosphere, although it would have been nice to have had a noise for the ball rolling up the alley as well as the actual collisions between ball and pins

As might be expected, two players can challenge each other to friendly games. However, for once there is also a single player tournament mode which adds a degree of longevity.

In this the player tries to make it through six international events which are nothing if not challenging. Each tournament has six knockout rounds - even the first of which is pretty demanding.

Bowling is achieved by a couple of timely clicks on the fire button and nothing more, but there is still much skill involved in ensuring good scores are consistently obtained.

Those who are somewhat inept at real ten-pin bowling will be pleased to learn that complete misses, where the ball trundles lazily along the gutter, are extremely rare. However, scoring strikes regularly requires practice and up against computer

competition beginners will find the going tough at first. All in all. Strike is a high quality piece of licenceware which is definitely worth the asking price.

#### Draptaal

Programmed by: Charles Parker

The problem with the increasing number of programs which support Appleons for dropping files onto, is that once a few of them are installed the workbench can start to get quite cluttered.

A program called Dropbox appeared to offer the perfect answer, being able to display documents, decompress archives and so on whenever a file was dropped on it. but unfortunately those of us with Kickstart 3 machines found that strange things started happening to its preferences file on

## Love ACA

Produced by: Fairlight Disk Nos AFD066/AFD067

Hardly original but fairly well done. Love AGA is a demo featuring everything you'd expect - a couple of rotating 3D shapes, the odd well-drawn if unimagina-

although a nice colourful line-changing effect and a

illustrated is one of the other more notable bits. and the end credits scroll over an impressive rendered - and rotating, funnily enough - Fairlight logo. However, the whole demo still seems to lack any real individuality or flair, and well programmed though it may be it is hard to see it being booted more than two or three times before being consigned permanently to the disk box



ware, but Fairlight's Love AGA demo still made me feel a strange sense of délà yu

an alarmingly regular basis

Drontool, which incidentally is in no way advantage of automatically being able to decide what to do with a file - you have to tell it by clicking on one of eight options.

However, it completely blows away Dropbox in terms of reliability, since I have so far experienced no difficulties whatsoever in using it.

Using Droptool, files can be passed to to the printer so that a hard copy can be obtained. Alternatively, information about the icon

or the version number can be displayed. .lha archives can be extracted to RAM:. and Multiview can be called. This latter feature is especially welcome

because, since Droptool can unpack Powerpacked files. Multiview can now be used to display packed documents.



Don't overcrowd your workbench. Instead try getting hold of Droptool, a one-for-all Appl

release is imminent. If you liked the idea of Dropbox but were annoved by the constant problems, then the answer to your prayer may well be Droptool. ER lay your hands

At the time of writing, only the AGA ver

sion is available at a very reasonable

shareware fee, However, a non-AG



David J Cruickshank 58 Aln Street, Hebburn, Tyne & Wear NE31 1XT

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# +SYSTEM

Your essential guide to the world of Amiga gaming

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# Park life

Pull down the safety bar as we give Electronic Art's Theme Park a test run.

#### **Dawn Patrol**

Empire Software, famous for its brilliant talents in the simulation's department, are back with another one. Dawn Patrol, created by Rowan Software, famous for emphasis firmly on pilot control and "seat of the

The PC version uses such up-to-date techniques as image mapping layered on a polygonal frame, with light sourcing, gouraud shading and 640 x 400 SVGA anything you've seen so far on the PC. The Amiga version might not be as graphically fantastic as the PC, but

choose from 15 period aircraft from World War 1 that will fly just as the originals did. Choice of planes include the Fokker Triplane, Eindecker, Sopwith Camel, SPAD 7, so you can choose which side you want to fly for

The effects of battle damage are significant and are in accordance with every aerial manoeuwe you make. Bullets rip canvas and chop up the woodwork of the plane, plus bits of the fuselage and wing sections slowly peel away from the aircraft. Likewise. the sound effects are superb and simply add to the

It's been a quiet time for flight simulations just



recently, but Dawn Patrol promises to make noises in the Amiga world. You can have a closer los at Rowan Software's flight sim via a System Previe which will appear in next month's magazine



#### **Another blow** for Team 17

Yes, those barmy bargain boys (and girls) from Wakefield are out and about on the budget run once more with the forthcoming release of Body Blows AGA. This best-selling beat-

'em-up features no less than 11 tough combatants, 256 colour graphics. six beautifully drawn background screens, four or eight player tournament.

the unique "Tag Team" mode previously only seen in Ultimate Body Blows and

it's hard drive installable to boot. Body Blows AGA should be out by the time your eyes have scanned over this



page and it will cost you nal Body Blows can upgrade their game by sending their original Body Blows disks (box and manuals not necessary) with a cheque or Postal Order made payable to Team 17 for £7.99 to: Body Blows Upgrades, Team 17, 6 St John's Square, Wakefield WF1 2QX, England.

#### Cannon Fodder 2 It had to happen. Those Sensible

Software geezers are proud to previolent Cannon Fodder. The aptly named

around the modern day Middle East then will progress into a Medieval

leaps to the 1930s and promises to



supremo Jon Hare. Details are sketchy at the moment and the Sensible lads seem

their hats, but Cannon Fodder 2 is same, mainly due to the fact that



#### It's showtime!

The twice-yearly industry computer trade show will have been and gone by the time you read this, but System will be at the three-day event once again and it promises to be the most The big boys are back in town with

Nintendo, Sega and Panasonic all in attendance and all with machines on the way. Trade and media focus will be on trade body ELSPA (European Leisure Software Publishen Association) who are expected to unveil a White Paper outlining the





#### All change at Gremlin!



I was ten years ago that a character going by the name Monty Mole achieved national notoriety on ITV's News IT Ten by starring in a computer game with Arthur

Little did Monty or Arthur know that the ensuing publicity would help turn this early platform game into the

first six-figure seller for a fledgling games company called Gremlin Graphics. Since those early days of 16K RAM packs, hardly a month went by without a classic game from Gremlin fea-

Monty on the Run, Jack the Nipper, Thing on a Spring. Switchblade, Hero Quest, Lotus, Zool and Premier Wanager, to mention but a few, have all helped turn the

meffield-based software house into one of Europe's premer developers and publishers of computer and console To celebrate the ten years of success, Gremlin have

secided to change things around slightly. They will now be known as Gremlin Interactive and will have a new corporate image. In a bold move designed to reflect the company's con-

fidence in its plans for the next ten years, the famous mychedelic rainbow lozenge is about to be replaced.

Gremlin's Managing Director, Ian Stewart, has this to my on the change: "Of course there will be some sadness tremendous change in the computer industry. Gremlin never was a Graphics company and there have been times when this has been rather confusing

"As for the logo we'll miss it, but it was beginning to be a bit like wearing flares and platform shoes in a room full of Doc Martens."



The world of computers is ever-changing and System is here to keep you aware of what else is happening within the fast oving computer entertainment industry

biggest games of the year on the biggest games of the year on the MegaDrive, failed to hold its RRP on the first day of its release. The game was discounted by many stores by around £10-£15 and its intended £59.99 RRP and a flat cartridge market has been blamed.

problems posed by computer pornography, its methods of distribution and recommendations for action Among the highlights of the show

Shaquille O'Neal is appearing in Shaq success later on in the year. Virgin Interactive Entertainment will be parading the game of Disney's massive hit movie, The Lion King. Produced in association with

Disney's own animation team, the game looks set to be as beautifully crafted as the film itself.

Multimedia giant Time Warner will be unveiling its interactive division's biggest ever project. Rise of the Robots. It's one of the titles everyone is talking about and people within the industry will be able to get their

ECTS Event Marketing Manager Minnie McBride, when quizzed about the forthcoming event, offered: "The next generation of gaming hardware has been talked about for years, at the ECTS it finally comes into focus.

"And with all the world's major software publishers also preparing

to show their breakthrough products. ECTS will be the place to take a peek into the future of interactive entertainment."



Looking for a quality game to spend your cash on? Have a look at these selections from the last three months which will help you make that important buying decision.

#### Benefactor

Benefactor is the best thing Psygnosis have released in a long time. It feels like a montage of Flashback and Psygnosis' very own genoridal pets, the Lemmings

Both the graphics and sound have been implemented very well. The variety of both location and puzzle aspect of Benefactor make it an engrossing challenge Benefactor is the type of title that will

keep the most dextrous platform freaks and puzzle lovers alike twiddling well into the

## Banshee

I do like this game and the weirdest bit it, I've never been a fan of shoot, emilins! They usus sive quality that drags you in. Each level



#### **Quick the Thunder Rabbit**

Casting aside all previous platform games, Quik is really a perfectly funky little game. Admittedly, my first reaction to a platform game about rabbits was not printable in a

sheer professionalism of it all It's probably more suited to younger players, due to its simplicity and cuddly approach but despite every aspect of it screaming "cliché" it comes across as a very fun game.

#### **King's Ouest 6**

Adventure fans will be delighted that Sierra have finally decided to release the sixth adventure in the King's Quest series onto the Amiga. As far as adventure games go, they don't get much better than this. With its brilliant graphics, a fairy tale of a plot, superb playability and a level of addiction that will keep you coming back



#### Pinkie

A cracking little platformer, It looks beautiful and cheesy poptastic soundtrack and even the heavily puzzle-based. Pinkie, as a concept, isn't anything different and doesn't contain own works remarkably well. Pinkie is a harmless little platformer that won't hurt

#### Universe

Without doubt, Universe is one of the games of the year so far. It has class in copious The combined icon and text control system is intuitive and friendly, making this a simple game to get to grips with.

completely mystifying, until suddenly the solution dawns on you and you wonder why on earth you didn't realise what to do a little earlier on. Universe is the type of adventure game that will be enjoyed by even those normally disinterested in the genre, and must be highly recommended.

#### The scores on the doors

Come on regular readers, you must know how it works by now. New readers welcome you to the most exciting part of the magazine, hold on to your hats...

I'm size many of you are now familiar with our one scoring system, but for those reading Amig scoring system, but for those reading Amig shared to the system scoring are yet reading and the system scoring are system. In our spoins, we wise scores have lost their on in our spoins, when in truth they were only which were only a few percentage short of lining at which were only a few percentage short of lining at which was only a few percentage short of lining at which was only a few percentage short of lining and percentage short of lining and percentage of lining and percentage of lining and percentage of lining and percentage of lining and lining and percentage of lining and lining and percentage of lining and linin

















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rom the beach go to the crossroads. Use the poem on the nightingale who will in-turn take it to Cassima. Click on the note, then walk to the village and enter the pawn shop. Use the flute on the shopkeeper to get the tinder box, then leave. Walk back to the beach and use the map to go to the Isle of the Sacred Mountain.

When you arrive at the beach, walk up to the mountain side and click on it. A puzzle will appear Click on the circles in the corresponding order 4.1.2 and some steps wil then appear. Walk up to the next puzzle, using the manual click on the symbols which

On to the next puzzle and this time you must click on the symbols which are represented by the letters Q, G, Q and D. Walk to the top of the cliff and go and pick up some peppermint leaves. Next walk north to the city and get picked up by the guards. You will now meet the Lord and Lady of the city but don't be downhearted when they decide to throw you into the catacombs, this is the right way to go.

You will now have to follow the right directions to get out. First go north, north, east, east and north to get to the skull room; here take a skull. From here walk south, west, west, north and west to get to the spike maze.

Walk through the spike maze and then go west. and head north to the shield room. Get the shield then walk north, north, north, west and west and you will be at the crypt room.

There will be some coins in a dead man's eves Take them then go east, east, south and east. You will end up in a room where the ceiling will come down and crush you. Throws bricks in the gears to stop the ceiling coming

> Now walk east, east, north and east to a trap door room. Go in the trap door and fall to level two You will now have to use

beauty, but what does it contain within its walls?

your tinder box to light the room. Now walk we west, west, west, south, south and east to fin a cul-de-sac room. Use the hole-in-the-wall to loo through the wall and you will spot a minotaur. Gr west, west, west, south, south, east, south, east, each north, east, north and north to find the entrance the liar. Walk over to the pit and use your scarf or

00000

# beat the

# King'



the minotaur. You now leave the catacombs and your next move will be to visit oracle. Go and get the sacred water then go back to the beach. Use the map to go to the Isle of the mists. After landing on the beach, head west to the

druid woods - take the scythe and the lump of coal Go back to the beach and go to the Isle of the Beast From the beach walk to the stone archer. Use the shield on Prince Alexander to walk past the archer then pick a white rose from the rose bush. Next use



Make your way to the harbour and have a good sit-down and a chat with the ferryman



On the Isle of Mis ents will was



important, while others are there just to confuse and distract you



and you'll gain entrance into the castle

# Quest 6

Part 2

Inside the beautiful and majestic castle walls and the

and the scythe on the rose bush. Wait to receive the ring from the beast. When you have the ring go back to the beach and go to the Isle of the crown.

the beach and go to the Isle of the crown.

Once on the Isle, go through the village to the garden. Use the rose and the beast's ring on the beauty.

Return to the beast's garden on the Isle of the Beast. In the garden you'll receive a mirror from the beast and clothes from the beauty. Go back to the stone archer and pick another rose, then go back to the book shop on the Isle of the crown. Talk to Jollo, then so to the beach and then the Isle of Wonder.

#### CHESSLAND

. Go

the

use

On the Isle of Wonder go to the swamp – click on the milk weed to get a milk bottle. Walk to the garden and use the bottle on the baby to make the oth-

Use the old lamp on the baby tears to collect them and use the Oracle's vial on the old lamp to add the sacred water. Enter into Chessland through the gate



he Prince must find his lover, who is inside the castle omewhere, but you'll have to get past those quarel dogs first

and watch the two Queens fight.

Use the lump of coal on the Queens. When you get a spoiled egg return to the beach to go to the list of the Beast. From the beach go to the beast's garden where you should use the old lamp on the fountain.

Use the spell book on the old lamp and from here go to the Isle of Mists. When you land on the beach watch the bonfire, then do the rain spell.

Use the skull on the bonfire to collect the embers, then return to the Sacred Mountain. Land on the beach and walk up to the logic cliffs, in the inventory, use the hair on the skull, then use the egil on the skull, then use the exit and the skull, then the spell book on the skull and finally use the skull on Nightmare the winged hones, on and ride Nightmare and you'll end up in the Realm of the Dead.

Talk to the King and Queen and get a ticket, then walk east to the entrance. Use the ticket on the Door Master. Look at the Knight and the gauntlet. Take the gauntlet, then walk north to the River

At the River Styx use the tea cup on the river to get some styx water. Give the dead man coins to Charon, Walk towards the Lord of the Dead.

To challenge him use the gauntlet, then make him cry by using the magic mirror on him. You'll now return to the beach with the King and Queen in tow.

After landing on the beach go to the crossroads

and give the rose to the nightingale. Walk to the village and swap the old lamp with the genie replica lamp at the lamp sellers.

Enter the book sellers and give the lamp to Jollo, then leave and go to the pawn shop. Swap the tinder box for the painters brushes.

Go now to the Castle's side wall and stir the swamp ooze with the feather. Use the paintbrushes on the castle's wall and then the spellbook on the wall to create a door.

wall to create a door.

Return to the pawn shop and exchange the paintbrushes for the nightingale. Go back to the newly-

created door and go through it.
Once in the castle walk up the left stairway and

when the guards move away place the nightingale on the floor, then walk in the alcove. Click on the pillar and hide behind it. Click on the

portrait to remove it, then take the nail. Walk out of the alcove and go into the Vizier's bedroom – use the nail to open the trunk. Click on the letter to read it, then exit the room.

Walk north to the north hallway and talk to

Cassima through the door, then place the dagger under the door. Walk back to the main hallway and show the letter to Saladin. Walk up to Cassima and the King, Queen and a genie will appear.

Follow the Vizier and then get the lamp off Joilo

to use on the genie. Get the sword off the wall and use it to defeat the Vizier.

Well done you completed Kings Quest 6 and all that's left to do is sit back and watch the end animation.



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GRAPHICS

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SOUND SITUATION
EMPERGUNO 62.1 SOUND campling VIDEO WORK

ilmaril's Ishar games have earned a INTRODUCTION well-deserved place in most RPG games players' collections. Renowned for their superb graphics which have their own unique style and their deep and absorbing plots, it's little wonder that they have

become one of the most popular RPGs around. And now Silmarils are set to stun once again with their final episode

to complete the trilogy.



The complete story of Ishar stretches right back over four games, starting off with the "Crystals of Arborea" where Jarel. Prince of the Elves, sets out to find the magic crystals which Morgoth, the black god. He succeeds and kills Morgoth, Jarel becomes

Ishar: Legend of the Fortress went on to tell of how the fortress of Ishar - which belonged to Krogh, offspring of Morgoth - was con-The powers of chaos were banished from Kendoria and it then became the 'in' place to be, so to speak.

A city developed and was named "Zach's Island." A powerful figure emerged - the cities bad guy, Shandar, monk of chaos - and he became your modern day drug dealer, selling hallucinogenic

In Ishar 2, Messengers of Doom the "Messengers" succeeded in freeing "Zach's Island" from Shandar's influence. Shandar was killed or so everyone thought, but he devised a spell before his death that allowed survive even after the death of his body. He now intends to return in the form of the deadly winged dragon, Wohratax.

Shandar's plan is flawed however, take place during the planetary conand the planet Ishar. You must destroy the dragon before this



bikini-clad women in thigh boots



vast amount

Tina Hackett dons her wizards hat, grabs her

magic wand and stumbles in

to the world of spells and

sorcery to see what's

conjuring in Ishar 3

One of the most outstanding aspects of the Ishar series has been the graphics. They create the rich atmosphere that always seems abundant in the Ishar games. This third offering is no exception and continues the high standard set by its

predecessors. The many different locations provide variety and the vast attention to detail that has been paid to each scene is amazing. Outdoor locations include everything from towns, jungles and fortresses to caverns, while indoor settings range from libraries, taverns and temples. Each one is full of intricate detail and really make the game However, while a great deal of atmosphere has

been created by using night and day time sequences (i.e. the scene goes from dark to light) it has been done at the expense of practicalities such as being able to see where you are!

This results in having to lie low until dawn break

and is rather frustrating when you are just in the mid dle of getting somewhere. Characters have been nicely animated and add real ism to the game and the sprites are imaginative and

well created.

There have been many RPGs on the Amiga to compare Ishar 3 to. Ishar 3 is your more traditional role-playing adventure, both visually and in sameplay. It is superior to a lot of its counterparts in its superb graphics and web

al plots and sub-plots. Recently we have seen Thalion's Ambermoon, the sequel to Amberstar. This

moressed and received a mighty 81% (AMC75). Ishar 3 is similar in the graphical mile it uses which is that of 'traditional' RPGs. However, Ambermoon also moloys an overhead, two-dimensional view

A more obvious comparison to make would be with Ishar 1 and 2. Ishar 3 comures favourably, both graphically and with the actual size of the game. Ishar 3 will prove a classic RPG, rating among some of the classics of this genre

Unfortunately there isn't a great deal of sound to comment on, which may be a good thing compared to the sound that is actually used. For instance, the occasional bell tolls in the distance, or a brief if rather irrelevant tune is played when you walk into an Inn.

The game starts with a moody tune which does conjure up the atmosphere and it's a great shame that some other music couldn't have been used throughout the game.

In a title of this nature, things could have really been enhanced by a good choice of tunes or effects

#### We live in a fantasy world, a world of illusion. The great task in life is to find reality

Iris Murdoch, English novelist



wn at the local Inn you



#### **ADDITIONAL INFO**

The plot in Ishar 3 focuses on the idea that Shandar's soul can come back in another form. This belief, known as reincarnation, says that the human spirit can still live again in another human, plant or animal. It is also referred to as transmigration or

Many religions such as Buddhism, Hinduism and Jainism have this belief as a fundamental part of their religion. The Hindus, whose beliefs originated around 4,500 years ago, say that all living things are part of a divine life that transmute to one form or the other - sometimes a plant, an insect or human depending on its karma or past

beer



on is to rest for a while



Despite some of the grumbles I may have about the night-time effects and the sound. Ishar 3 is one of the

There are a massive 100 characters to make your

On your quest you will meet bad quys as well as place the stronger characters in the front line for

pick up key plot points found throughout the history

Inns play a vital part in the game and offer the opportunity to rest your team, eat, listen out for

and fun aspect of Ishar 3. There are about 30 spells to to 'telepathic reconnaissance' and teleportation

There is an unlimited game saving facility which, ity to re-load teams from Ishar 1 and 2.

There is just so much to do in Ishar 3, apart continually boggling over specific puzzles and

problems Even for the most experienced role-players this will of the previous games will not be disappointed. It

Silmarils have excelled once again in their aim to create, "the computer version of a Tolkien adventure. rich in dream-like images, colour, sound and plot."



move in Theme Park enabling your visitors to travel around in style



dmit to thinking that the game might ten hyped to oblivion and that it can't y be that good.

INTRODUCTION

I don't have to wait
ntil the end of the review to tell you just h
nood Theme Park is, it is bloomin' marvell
at I know that it'll be top of the softw.

charts for a good long time to come.

On the surface it looks like a cutesy,
OK kinda game, but underneath there
is a startling, in-depth business/strategy
simulation that you can't fail to be im-

pressed by.

Theme Park heralds a new era in colganes and it's an era I've been waiting few years for.







You are now entering the Theme Park zone. A world full of over-inflated burger prices, coasters that roll and castles that bounce. Jonathan Maddock takes you around what must be the game of the year.

# SOUND

The sound in Theme Park is the vital part of atmosphere generation and thankfully Bullfrog has included it in abundance. Each ride has its own specific tune which plays when your mouse pointer wanders over it. The tunes don't last forever though, which means you're not plagued by annoying

music which starts off good and then gets monotonous. The sound effects, of which there are many, seem to go by without you noticing them and it's quite hard to name a specific sound, but they are there. It's just that they add to the whole atmosphere of the game rather than just providing you with a second's

The only other bit of sound is the introduction which features plenty of sampled speech and I guarantee that you won't fail to raise a grin by the time you see the roller coaster sequence. Buy the game to see what I'm on about!











Rard Bigh Inefall- Top Control System: Monco Supports: A500/A000/A1200/A4000 Decomposited \$1020 property

TUPL OF GOODS SOLD COSTONIAS SO FAR AMOUNT OF SALT

BIG TIME FRIES

Park

and the happy visitors all pile out to be met by a man wearing a chicken suit!

#### GRAPHICS

I don't even know where to begin where the visuals in Theme Park are concerned. From the amazing introduction (even though it's not quite as good as the PC version) you know that you're about to experience a product of sheer quality.

Once you've found your feet and you begin to experiment a little, you start to notice all the hundreds (literally!) of little touches.

Your visitors wander around with expressions that range from happiness or that burst out in tears, to green faces after a particularly rough time on one of the rides, due to Hamburgus fillus faceus toomuchus.

The rides themselves are the real stars of the game. You start off with basic and very safe rides, such as the bouncy castle and the tea-cup ride which are beautifully presented. After a bit of research you then

progress to bigger and more scarier rides, such as the roller-coaster and the haunted house. The control system is clean, well-presented and the icons are designed, so it's obvious just what you're clicking on. The static screens are also spot-on, the management deals over the table and the end sequence when your

parks goes bankrupt are two prime examples. The animation is smooth and everything flows nicely around the screen like it should do. The little graphical touches such as the introduction of scenery (trees,

stumps, fences, fountains) enable you to design a park which can be as picturesque as you want it to be. There is graphically so much to Theme Park that I'd take up the whole maga-

zine talking about it. The best thing to do is just sit back in a comfy chair and

Cute as hell and in quiet moments even the toughest male on the planet has got a good chance of going "Ahhhh".





#### SIMULATION

Theme Park can be played three ways. Your first choice should be the sandbox level which is aimed specifically at beginners. You can enjoy all the fun of the Theme Park without having to trouble yourself with the strains of dealing with the bank, play out don't have to do any research and you'll never run out of stook for your shops.

The next level upwards is the sim level. Here you can do some research and also some negotiation screens pop up periodically where you have to barter over staff wages.

over start wages.
Only on Full level do you get to utilise all of Theme
Park's options. You're personally responsible for every
financial transaction and rival operators can have
shares in your park.

Theme Park looks highly cutesy on the outside, but the game is so in-depth that every single thing you could possibly think of has been fully catered for. Chips shops on your park have salt levels which can be decreased and increased. An increase will make your park visitors thirsty, so a few sign-posts pointing your park visitors thirsty, so a few sign-posts pointing.

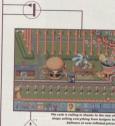
towards your Pokey Cola shop can reap you big financial rewards.

Theme Park will take you an hour to master the controls, but you will spend weeks before you start to run a profitable business for any length of time.

The game is the first in Bullfrog's Designer Series. The series is entirely made up of business simulations, which is where Bullfrog believe the future of computer games will lie.



One of my favourites rides in Theme Park is the superb Pirate Ship and, orr here's a picture of it just for your



#### FLASHBACK

Looking back throughout games' history, there isn't anything exactly like Theme Park, but there are few that come fairly close. The Populous series of games, also created by Builfrog, virtually changed the software industry overnight and expanded game creators' thoughts past the platformer and the shoot-fem-up.

The idea was to create your own populous by flattening and raising land while battling with an opponent who had the extra tame goal, via some help from natural disasters.

The actual laying down of houses and settlement is very much like the construction section in Theme Park, but that's where any similarity ends.

I can't even remember anything else remotely like Bullfrog's business simulator, but that just goes to prove that the game is a completely original product.

#### ADDITIONAL INFO

The first theme park, Disney a opened in 1955 in Anahe- California. The park centraround Walt Disney's certoon du acters and covered approximate. A acres. Walt Disney World cover a massive 27,000 acres and a opened in 1971 near Orland

Walt Disney World enhanced in 1982 thanks to introduction of the EPCOT century which features displays of fututechnology and re-creates historcal landmarks.

Other Disney parks include the Tokyo Disneyland and EuroDisne in France, which covers an are one-fifth the size of Paris. That the USA, France and Japan catered for, but Brits haven't got it so be with 15 theme parks spread throughout the UK.

The three largest are Alto-Towers in Staffordshire (opened in 1979) which attracts over 2 million visitors annually. Thorpe Park (1980) and Chessington World of Adventure (1987), both of which are situated in Surrey.



Placing food shops too close to rides like the Spinner can cause your visitors to go green and thus start producing assessment.

#### OPINION

92%

Theme Park is by far the best game I've played this year. Just as Populous arrived and changed the industry for the better, I think Theme Park is here now to give other software houses a good kick up the backside, just to show them what can be done on the Amiga.

It is a product of sheer high quality, is bound to sell by the truckload and it's all down to one simple and often forgotten thing. Originality. Theme Park, with its three simulation scales, will appeal to just about everyone. Via these scales you can make the simulation as in-depth as you want it to be.

The best thing about the game in my opinion is that it is a fun game to play.

You can't help but smile and have a good laugh while you're busy creating your park.

The only down point to Theme Park is that it is a tad slow on the lower grade

The only down point to Theme Park is that it is a tad slow on the lower grade Amigas. To get the best out of it you'll need some fastRAM or an accelerator, but that said it still plays well, upgrade or not.

The graphics are simply exquisite, the sound is excellent, it is as playable as hell and more addictive than any drug. It oozes sheer class and everyone that has seen it has had nothing but praise for Bullfrog's business simulator.

I could enthuse about Theme Park all day, but I don't want to because right now I want to get back to my A1200 to continue constructing my park.

To quickly sum up, Theme Park is a quality title designed by a quality software

developer, and if you decide not to buy this game it could well become one of the worst decisions your ever likely to make.







engine for some real speed



don't bring anything to the gar

Take note of the weather before you buy

## SOUND

This is the sort of thing nightmares are made of! Imagine a lawnmower sample for the roar of the engine, the nitros conveyed by the hum of a washing machine and the squeal of the breaks by the sound of a

demented Hamster This is about all you need to accurately recreate the sound in Top Gear 2 - it really is this dreadful.

The music option is quite a com petent attempt but it is very tacky and mindnumbingly boring and repetitive after a while.





Don't collide with your opponents or it'll put you back a fair bit



#### FLASHBACK

There are quite a few games that are rather like Top Gear 2. Many have taken on the formula of a sports car racing along the open road in various countries, with things getting difficult when bad weather occurs or there are obstacles on the track.

Lotus, for instance, is similar both in looks and gameplay, with the typical rain and fog scenes, or Crazy Cars 3 is also quite similar, but the game

added interest with an extra element of betting wagers with rival racers and also the option to upgrade your car.

Top Gear 2 rates around average with games of a similar nature. It does introduce some sort of tactical element with the upgrades you can buy for your car, and you'll need to decide when and what to spend your race winnings on.

Check the weather report to see whether you should replace your tyres with better versions adapted for wet or dry conditions, or spend your cash on improving nitros for better speed ups.

other games of this nature with the obligatory rain scenes, fog, night and city skyscrapers, but it has been done to a high standard

and looks good The actual car itself seems to hover uncon vincingly above the track and the rear view of the car is relatively unimpressive even when the nitros are activated, with a feeble fine effect appearing out of the exhausts.

The apparent "cut and paste" job on the scenery also spoils things quite a lot. While it is a nice idea illustrating the background with significant landmarks of a country, it become so obvious that the scenery has been contin ally repeated that it looks unconvincing

In fact it becomes quite laughable as you count how many Sydney opera houses you pass, or how many Pyramids and the like.







## Tina Hackett plays girl racer for the day to take a look at Gremlin's Top Gear 2...

#### IMULATION

Well, having never driven a high-powered super sports car (any offers?), it can only be left to the imagination how close to the real thing this is. Unfortunately the control method certainly doesn't do a great deal to enhance realism and the steering isn't all that responsive, constantly reminding you that you are just using a joystick and controlling a graphic on the screen.

The game does create the speed of the car well and you do actually move along at a fair old pace The sound effects are adequate, but they don't create the nail-biting

tension that these games should and don't sound all that convincing Also you are blessed with a rubber car, in the sense that even when you crash at full speed into a concrete wall you'll still bounce right off again with no harm done.

Great for prolonging the race but hardly realistic - I mean whatever appened to those impressive explosions that kept things exciting?

What I'm trying to say is you don't really get absorbed into the action as with some racing games and somehow the excitement isn't there.



For makes driving conditions trea-



Count the landmarks as you drive past

## ADDITIONAL INFO

Car racing has always held wide appeal, both with participators and spectators alike. It has taken on many different forms from Stock Car Racing to Formula One Grand from Paris to Rouen in 1894

There are many circuits that have been built for the purpose such as Silverstone and Nurburgring, along with street circuits including Monte Carlo and

Monaco.

Many racing drivers have become household names through their profession - Graham Hill, Stirling Moss and Jackie Stewart all finding fame through this means.

Motor racing is not without its dangers though - even for the spectators. One of the worst ever motor racing disaster was at Le Mans race-track when 80 people were killed when three cars collided at 150mph crashing into the spectators stand.



#### OPINION

70% There are a few things that worry me about this game. While on the surface the game plays fairly

well and everything chugs along guite acceptably. there are things that let it down. For instance, gameolay is distracted by these supposedly "hip" phrases interrupting the proceedings. Overtake a car, for example, and a bubble of speech will appear reading "Yo, eat my dust",

'Crash 'n' burn" and other equally irritating And another point to note: all your opponents never put a foot wrong, who never crash into barriers and if you should collide - well, it's you that gets put back a few seconds while they speed off in

No chance for any foul play, no scraping together of paintwork and no mad scramble to overtake - removing tonnes of potential fun! It's not all bad by any means. In fact it is a very playable game with plenty of different tracks - 64 cities in 16 countries - to test your skills. And it is a very, very fast game, especially on a one-player

A two-player game is the usual split-screen affair and is great fun, but unfortunately you can't easily tell who your opponent is from the many other cars The sound and graphics let the game down a lit-

tle and it doesn't seem to have all that much to it. Around five years ago it would have

enthusiasm but now it is a If you're a fan of rac

ing games and you have to have another. it is worth a look. It it's just not particularly original





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INTRODUCTION

at side of things.

On The Ball similar to set that traight, offering up to four properties of the pro



Taylor failed, but can you succeed? Dave Cusick tries to lead England to international glory in Ascon's foray into the football management genre

# World Cup Edition

your evening than getting smashed in the bar

concentrate on plenty of different skills on the training field, and you can

agerial games are Gremlin's Premier Manager 2 and Domark's Championship Manager 94. You can Premier Manager opts for a fast and friendly approach, where you are given the task of taking over a humble conference team and making your way into the top flight of professional football.

FLASHBACK Without a doubt the two top man-

Championship Manager is probably the most detailed game of its type ever conceived, boasting unparalleled attention to detail. It because you can immerse yourself

On The Ball tries to break the mould in several areas, not only in its use of the numerous in-game action sequences, but also in opting for a much less text-based

There are far fewer player statistics than in Championship Manager, as a system of assigning "Goal poacher" to some players is employed which works well.

#### SOUND

Located on the desk in your office is a compact disc player, which you can use to select one of two tunes which tinkle away in the background during the off-thefield sections.

Both tunes are passable but not particularly aweinspiring, and to be honest you may well be tempted to turn down the volume and stick some decent music on in

accompanied by suitable crowd sound effects. The closest style messages which are interspersed with the commen-

52%

want to see you wasting time. hacking their mer and always taking the dives. You can tell this game was



#### SIMULATION

Dre

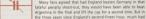
Without ever actually having been an international football manager. I'm not really in the position to say whether or not On The Ball accurately reflects the day to day life of such a character. However, it does seem to include every aspect of the job, both on the field and off.

I can't think of another management game in which you get to plan out your player's days in this amount of detail, or where all manner of actions from

andorsing products to imposing sex bans on the squad can be carried out. The game sections themselves usually seem to reflect reality to some extent, aithough after a while you do become used to certain animations and as a result

can predict goals before they are actually scored. This doesn't really detract from the excitement however. You'll still have your

heart in your mouth during penalties or free kicks from critical edge-of-box



BOº/6



denies the

the chance

of taking

the less

Few management games are as visually pleasing as On The Ball. The programmers have clearly poured a lot of time and effort into creating a realistic and stylish game throughout, and the graphirs certainly go a long way towards capturing the correct mood

The feel of every situation, from the quiet solitude of your hotel room office to the intense glare of a post-game press conference, is captured perfectly by the atmospheric visuals

For most of the game you'll be looking at these beautifully drawn static screens, but where the action really comes alive is during training sessions and matches.

Here your players perform for you in a range of animated sequences. Despite the size of the players on the screen, these sequences are generally smooth and will certainly impress initially. Of course, whether you'll still be

so keen on them after you've had the game a few weeks remains to be seen, because it doesn't seem possible to skip these animations.

80%

## ADDITIONAL INFO

Wednesday 13th October 1993 was the night on which football fans the whole nation over watched their national team miss the world cup boat. This was all the more shocking and disappointing, coming as it did only three years after a heartbreaking and indeed quite unlucky semi-final loss to the eventual winners of

the 1990 World Cup. Germany. Many fans agreed that had England beaten Germany in that fateful penalty shoot-out, they would have been able to beat

After two impressive World Cup campaigns, Bobby Robson decided to return to club management. The FA appointed

Graham Taylor, whose club credentials were impeccable With players such as Bryan Robson and Peter Shilton at the end of their international careers, Taylor decided the time was right

for wholesale changes and took several controversial decisions. such as dropping Chris Waddle and Peter Beardsley He seemed unable to translate his club success to the interna-

tional arena and adopted an alarming habit of playing men in roles other than their natural positions.

After playing On The Ball, you will either feel an affinity with Taylor - perhaps he faced an impossible task - or have an ever lower opinion of him than when you started. This could largely depend on which difficulty level you play at

After failing to qualify for USA 94, Taylor resigned as England Manager. His three year tenure had been an often stormy yoyage. through the footballing ocean, and few were sorry to see him go.

Now Wolves fans will be hoping he can find his earlier club management success. He shall be remembered as the man who not only managed England's way out of the World Cup, but also for the improper use of the English language that brought him

notoriety through the medium of national television Indeed, that now immortal phrase which is adorning Fantasy Football League T-shirts the whole country over, accurately sums up for me the whole of Graham Taylor's international career: "Do

Facing the press is fine after a win, but if the result hasn't gone your way





#### **OPINION**

Accomplished and enjoyable though it is, On The Ball: World Cup Edition still only simulates the quali International management is interesting enough,

but for many there simply won't be enough involvement with the players on the almost personal level. such as that which can develop during extended sessions playing Championship Manager To be honest I can't help but feel that

domestic league and cup competitions work definitely lost through the use of fictitious player

However, there is still plenty of depth; taking one of the footballing minnows to the finals is a real challenge on the higher difficulty settings.

You'll need a hard drive for the A1200 version,

although the A500 version won't call for one. Ascon say this is due to the improved graphics on the AGA



ers of pliability to reach one of the important stars which further enhance his abilities







Putty calls upon the powers of his airship to help him get rid of his apponent who is secure in a bunker

#### INTRODUCTION

wo years ago a game arrived on the Amiga games scene that redefined the parameters of the platform s character. Putty was its name was received well by press and players alike. With scores that below 90%, Putty was a breath em 3, responsible for such quality pieces ware as Myth, created Putty, a character as able to stretch and morph his (her?) to computer game success. There was so a more that you could do with your flexi-riend that it was quite unlike any other Even though the idea was highly origin Putty also shone brighter in the graphics a sound departments than anything that h gone before it.

The sound effects such as carrots shouting "Uzi 9mm" played a major part in the game success by making it far more entertaining and dare I say it, more fun than a lot of it

We're now heading towards the end of 19 and System 3 are back with a vengeance. To sequel to their platform star of 1992, Put looks bigger and better than its predecessor.

I fear the world is about to go Putty m





green crates which are sporadically placed around the level, you'll eceive a wealth of

Sonically, Putty Squad is a notch above the rest. The musical tune which runs throughout isn't too loud and although it sounds rather nifty, the volume is set at this level for one reason. The musical stars are, of course, the humourous sound samples which pop up every few seconds.

Almost every character within the game has their own select sound. From when the Putty shouts when he collects one of his mates to the end laughter when you fail after losing all your lives, every sound, err, sounds great and I can do nothing but applaud

the music maestro who put it all together

Just the introduction of these select samples makes the game more fun to play, inducing you to

search out new characters just to see what they say. Perhaps the best use of the sound sample is when you pick up the musical note icon. Sitting behind a pair of decks, the DJ promptly appears and spins an outrageous scratch-filled hip-hop record

Immediately, all the enemies stop doing whatever they were doing and start to dance their socks off for a good 20 seconds, allowing Putty to go about his business untroubled. A nice touch of the high quality.



#### **ADDITIONAL INFO**

The aim of Putty Squad is to rescue all your plasticine chums who are being held prisoners of war by the evil cat tribe. Along the way through your missions there are several objects which can be picked D. Pick up ten stars and Putty will gain a more powerful punch, 20 will give you arrows to fire, while 30 will give Putty an electric finger to zap his enemies with.

Other goodies include food to top up your health, springs to reach those hard, err, out-of-reach places and jars of nitro-glycerine which enable Putty to make bombs which will cause as much destruction as possible



#### GRADHICS

As you might expect. Putty Squad contains some of the best cartoon graphics you've seen in a long time. The variety of characters and the sheer quality of these finely sculptured pixels can't fail to impress even the most platform-hating

The characters range from new stars such as bulbous toads and menancing magicans to Indian rubber men. The game doesn't forget old favourites such as the rampant rocket men and the maniac gun-toting carrot, who incidently has changed his catchphrase to "arhtung!"

improved upon, mainly due to the fact that the Putty Squad development team have now got access to AGA technology. The location of the game seems to be set in and around the far east with Ruddahs dotted around the Arab-esque landscape.

The actual Putty character isn't that appeared in the first System 3 platvastly improved simply because the name creators did it so well first time

The blue blob can still squash himself the air to collect objects, form a fist to whack the enemy and can encase/morph

into a haddie and take control of him. The animation is spot on and the smoothness by which the star of the game jumps and squishes around the

screen is very impressive.

Punch this pesky cat in the outs and he falls to the ground. You can now bounce on his tum to reach those





ditions for the part of Alfie.

alnful airshin et another MA rocket mer

The smell of plasticine is in the air. What

quaa

else could it be? System 3 hits the stretchy platform trail once more and Jonathan Maddock is nothing but putty in their hands...

line quick morph later and Putty of the rocket men

an

# I have nothing but praise for John Twiddy, the program-

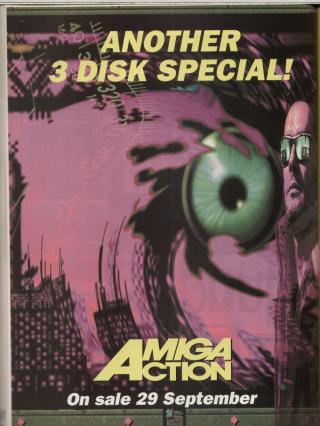
mer of Putty Squad, because once again he has produced another quality piece of software. The on the main character. The sound adds a lot to

the game, giving the player a lot of laughs as he/she makes his/her way through the various levels. The vari-AWARD

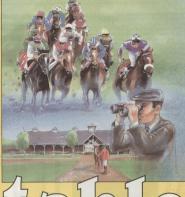
heroes might have a few problems later on Thankfully the development team have put an ever-so

problem is that Putty Squad is for the A1200 only, so A500

only a couple of goes. It is extremely addictive and I put.



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WELCOME



ng even approaching gameplay.

unately, over the last year or two many companies seem to hav
message and as a result, sprawling CD-based adventure game

"Stunning animation maketh not a great game", as some wise soul once said. Gremlin's latest could change all that, as Dave Cusick has just discovered

if Mutt isn't careful he could

#### I've never really been

Obviously a reasonable proportion of the CD storage space has been given over to providing a decent soundtrack to accompany the action While you are romping gaily around the Labyrinth, a selection of tunes

ranging from cartoony themes to all-action blockbuster movie-type things are pounding away. At times it sounds like a whole orchestra is packed inside the monitor, and the music always fits the scene perfectly.

Our hero Mutt's large repertoire of moves have appropriate samp sound effects, many of which are quite humourous.

#### STORYLINE

although I don't like the look of that bull thing!

Mutt Divil is a highly ranked amateur sleeper with aspirations of becoming a professional in the near future. Annoyingly he's had to attend the Chamber of the Ancients. It might be the only thing that ever happens in the Underworld, but he'd still rather

The Council are meeting to decide who will be chosen to go forth into the Overworld, through the Labyrinth of Chaos, to retrieve the Mystic Pizza Unfortunately, and also fairly

predictably. Mutt has drawn the short straw in this rather critical draw and as a result will have to attempt to complete this seemingly impossible task. Nobody really holds out a hope for

especially when the

him, except his trainer Vice Alderman Muzzle, because the task has yet to be completed. Still, everybody's thoughts will be with him, if only because they'd really enjoy a piece of that pizza. If possible, his fellow litil divils would also greatly appreciate it if he could get extra anchovies

Mutt's guest takes the form of wandering around the maze-like corridors of the labyrinth, entering rooms where he must complete tasks to progress further into the game.







### INTERACTIO

Luckily Gremlin saw fit to think about the gamesplayer when producing this piece of software, because for once there's actually sufficient depth and addictiveness present to support the excellent

presentation Interaction is not limited to simply pushing the joypad in a certain direction at a certain moment. Mutt can perform all manner of tasks, from treading on spidery things to leaping across pits using a combination of buttons and the

directional pad Your main problem may in fact be deciphering exactly which button does what, since in different rooms their func-

tions are often totally different As a result, whenever you enter a new location it is wise to quickly experiment so that you do not become caught in a tricky situation with no idea which buttons to press.

Admittedly there are situations where you will be left with no idea what to do and there are rooms which cannot actually be completed until you possess certain items, either through picking them up or obtaining them from the store.

If you don't have an item, it may not artually be obvious that you need it, so you could find yourself perplexed as to how to deal with the room

Still, unless you've failed in a room several times in which case Mutt will automatically leave the location in disgust, it's don't feel simply like a spectator called

If interactive cartoons are to succeed then they will have to take a leaf out of Litil Divil's book



#### GRAPHICS

Let's get straight to the point. Litil Divil looks wonderful. The backgrounds are moody and atmospheric, with the puzzle rooms in particular being beautifully drawn and boasting lots of colour.

The Mutt sprite moves excellently and behaves realistically throughout. His range of actions is huge, yet he always moves fluently. He will often amuse thanks to some imaginative and cartoon-like animation

In short, this is one of the best looking games in a long time. True, the actual corridors of the Labyrinth are a little dull and very similar to one

another, but this doesn't really detract from the overall effect They add to the interest because they make find ing your way around the maze all the more challenging when one hallway looks much like every other

#### FLASHRACH

Well, since the CD32 itself is still a relative newcomer, there have not really been many games on this platform that Litil Divil resembles. It would be unfair to group it in with the Don Bluth games on other formats because they really are grossly inferior. Litil Divil is the first of what is sure to become a successful genre on the CD32

There's little doubt that Litil Divil is an entertaining title which looks and sounds almost like a proper cartoon. Initially it certainly impresses and to be honest it's

It is that most rare of products on the CD32, a game which takes full advantage of the machine's capabilities and is not simply an Amiga port with additional

Five levels, none of which are easy, should be enough to last quite some time. It's not the sort of game you would go back to once it has been completed, but then again I shouldn't think many people will finish it in a hurry anyway

Gremlin should be congratulated. In Litil Divil they have borrowed the best elements of the currently popular PC CD-ROM

adventures and have produced one of the best CD32 games yet. It might not be the sort of thing you will want to play for hours in a single sitting,

but there's enough long-term interest to warrant And if Commodore are looking for a product AWARD which will show off the CD32 to prospective customers, then Litil Divil could be the ideal solution

Armaier 1884 117

all oaks from little acoms grow", as they say, and although an old cliché, this certainly rings true in the case of Manchester-based software house, Ocean. The story begins with the tale of two entrepreneurs with a vision, a vision to move into an emerging market of

home entertainment.

And the rest is history, but it was obviously a decision that has paid off for the two entrepreneurs, Chairman, David Ward and Managing Director, Jon Woods, as they lead Ocean Software into its second decade.

Starting in 1983 with only four staff, it has now grown into one of the largest independent software houses in the World. In 1987 they expanded into the French market, setting up Ocean France on the

outskirts of Paris, and only two years later their rapid development was increased further still with the setting up of Ocean US in San Jose, California.

up of Ocean US in San Jose, California.
Ocean's foresight into the industry meant that they pushed the market forward in areas such as licensed games, and the release of their budget label, "Hit Squad', in 1989 opened another market for budget software which as well as the top Ocean titles, also includes products from the likes of Fietronic Art. Domark. Arcalade and

## Virgin.

In 1983 Ocean licensed its first coinoperated game and two years later they released their first movie-based game – a move which has led to the company being renowned for its licensed titles, including licenses from seven of the largest eight Hollywood

Ocean now has titles licensed by big names such as "Rambo', 'The Terminator', 'Batman' 'The Addams Family' and more recently, the industry's first million dollar license when they signed to produce 'Jurassic Park'.

they signed to produce 'Jurassic Park.'
As well as its film licenses, Ocean signed advertising tie-ins including that with Walkers Crisps and Quavers, resulting in their platformers Pushover and One Step Beyond.

Ocean has also incorporated the charity aspect into the games with the release of Sleepwalker, which used the voice of comedian Lenny Henry, and raised a considerable sum for Comic nation.

The company has employed the talents of pop giants such as Frankie Goes To Hollywood, Utah Saints and Alien

Sex Fiend in their releases.

Utah Saints worked on their track 'I want you', for Ocean/ID's game, Burning Rubber, while Nik and Mrs Fiend (Alien Sex Fiend) composed the

sound track for inferno.

Ocean's development centre in
Manchester has over 100 specialists on
site, with another 25 in San Jose, and
also have top name developers such as

D.I.D. working for them.
As well as the Amiga, Ocean has produced software for many other platforms including those by Sinclair, Atari, and Amstrad, along with the IBM compatible PC.

So next time you're considering the merits of what Manchester has to offer while supping your Boddingtons and watching Coronation Street, think that in the unlikely setting of a large city in the North West of England is one of Europe's top software houses.

### Ocean history..

mited and their first coin-censed 984: Ocean release their firme 'Kong Strikes Back' 985: The man of muscle allone and Ocean tie-in with

187: Bonjour France, as Ocean cross the continent with the ope cean Paris. 189: Ocean go down a real 'h reir budget label "Hit Squad".

> "Do they know it's Chri "Ocean did with their prod two and three in the Chri to Common to their ci field headquarters.

eveloped by Magnetic Fields, Kid haos makes a refreshing change o the usual platformer offerings

# A life on

## Ocean's tidal wave

system

Amiga owners are in for a barrage of releases from Ocean in the next few months and gamers can look forward to the sequel to the brilliant Desert Strike. Jungle Strike will make its appearance around November time and will continue from where its pre-

Deep in the heart of rainy Manchester is a ra



decessor left off with the madman's son, Klibaba Jr, continuing his Father's reign of terror over a jungle scenario.

He is assisted by the South American Drug Lord, Carlos Ortega, and it is your job to complete the nine campaigns to defeat them.

Also in production is Mutant League Mockey which follows the same rules at Hockey – getting the puck in the back of the net scores a goal – but apart from that it's a case of foot play wim the game, and you'll have to find a gony end to your opponents existence! Axes, sicks of dynamies and the like are available to use. Ocean will be bringing out another platformer, Mighty Max, and it it is up to the same standards as

or chaos then the platform genre will definitely idergo a change of image!

Colourful locations and a cartoony feel will make



this a fun escapade as you play Max or his friends against the exil Skullmaster – the bad guy who is trying to build a weapon powerful enough to destroy the world. The weapons are hidden in separate locations





#### A drop in the Ocean...

Over ten years in the business and Ocean have a softography of Amiga games to be proud of. We take a look at some of their finest.

• Kid Chaos - Ocean's recent platformer developed by Magnetic Fields. stunned with its gorgeous graphics and fun gameplay.

 Rainbow Islands – classic platformer. sequel to Bubble Bobble which involved throwing rainbows at baddies! Parasol Stars - the sequel to

Rainbow Islands. Similar to Bubble Bobble in that the two-player mode adds to the fun.

New Zealand Story - platformer action that is both highly playable and aridictiva

Bart vs. the Space Mutants - cartoon style gameplay as the roque himself, Bart Simpson.

 Robocop 3 - fun arcade adventure with the film license tie-in.

The Addams Family - platformer with nice animations of the film's main

characters • Pushover - Quavers advertising

license which involved an ant!

 Jurassic Park - huge film licensed game that managed to conjure the atmosphere of the film well.

# Ocean waves

and you will have to find them. Games players partial to the occasional round of Golf will be treated to PGA You can play over five top-ranking European courses, including Wentworth and Valderrama, and in real

Championship and Canon European Masters New features include the one-four player sudden-

teath shoot-outs and improved wind and weather consitions that effect the flight and roll of your ball. Shag-Fu is also set for release before Christmas and is

fighting game starring the NBA star, Shaquille O' Neal. You take on a number of opponents who are servants of an evil warlord and each have their own different

Tournament mode is available for one or two players



Mutant League Hockey will add a new twist to the

and you will be able to choose to be any of the eight Hindu Temple to a laboratory!

Racing roller-blade style is the order of the day in

Skitchin'. The idea is to get across the finish line in the fastest possible time, finishing in the first four - even if

Eliminate the other Skitchers with elbows, fists or even crowbars, and hitch a ride on passing cars. There

are 12 stages to complete, based in major US cities. from Denver to Los Angeles. Flight sim fans can grab a copy of D.I.D's and Ocean's TFX this Autumn. You'll have the opportunity

to fly some of the world's most advanced military aircraft such as F117a Stealth Bomber, the Lockheed F22 Superstar or the Eurofighter 2000. With all these play options it will allow the game to

be an arcade flight game, realistic flight simulator and 3D aerial adventure. The game will involve "Real riginality is not usually a thing synonymous with computer games these days, so when Millennium announced that they intended to bring out a game based on a true story it was met.

game based on a true story it was met with a mixture of cynicism and hope! But on hearing the tale behind the game, it's not hard to see why Millennium saw potential in a story that makes reality seem like fantasy. The game is Myster X, the story is of four martial arts chames who curle.

around 4000 miles across the states,

sparring in various towns. And talking

to the team leader and the man who originally came up with the idea for the game, it's obvious that this release is

going to be more than a bit special.

A man highly suited to his current role supervising a martial arts sim, 29-year old Neil Axe has spent around 20 years training in the arts and has an extensive and most impressive list of achievements in this field.

Starting at the age of five, under the tuition of his father, Neil learnt a Karate-based style of self-defence. Moving on to various other forms of oriental disciplines including Kirk Boxing, Wing Chun Kung Fu and Atemi Jutsu

Karate, Neil became somewhat of a champion in his chosen sport.

In 1988 Neil came up with the idea of the cycling expedition. A team, led by him, would cycle the distance, sparring in towns along the way, ending the journey with a huge tournament.

#### RITUAL

Originally it was intended that Neil and the rest of the team, Julian Carlino, Graham Cradle, and Michael Graham, would travel along the Great Wall of China, a ritual which goes back to the ancient martial artists, but restrictions with the authorities meant that they

money as they went along, they had give out an address for it to be sent which, as you can imagine, isn't nearly

effective.

At first it was intended that the who team would cycle the entire distand but Julian began to suffer with his bileg. A van was hired, leaving the tea severely strapped for cash, with only \$ a day between them.

A new plan was decided. They wou all alternate between driving, naviga ing, sleeping and cycling except who the temperatures became too low night. This way one person would cycling at all times. And as if all the ph

# Master Axe - The system of genesis

sysiem



ast month we looked at Millennium's forthcoming ame based around the true story of four martial rts experts. This week Tina Hackett talks to the



The moves are going to be as authentic as possible and Neil has worked closely with Millenium to make sure it stays realistic

could not actually cycle along certain parts of the wall and it was called off only weeks before they were due to go. Determined that all their intense

Determined that all their intense training and 18 months preparation should not go to waste, it was suggested that the team should cycle across America instead, but this would almost double the distance meaning cycling nearly an extra 2000 miles.

Many, including medical experts, believed the guys from Bucks were mad to take on such a feat, especially as two of the team have health disabilities – Nell suffers nerve damage in his lower spine while Julian needs surgical braces to even walk properly.

Setting off from New York deliberately close to April Fools Day (everyone believing them to be fools), they began their arduous journey across the States to San Diego. One of the purposes of the expedi-

tion, apart from the spiritual objective to find ones inner self, was to raise money for the Great Ormand Street hospital. However, the fund raising aspect did not go as planned. Neil believes that some of the charities did not want to be associated with a sport that was of this.

nature.

And in America the charity side didn't fair much better. When over there they were informed that they couldn't open a bank account which they had planned to keep money raised in, and while publicity was good in one sense, it also meant that they were easily recognisable by gangs intending to roll them for the

The team had to be on their guard the whole time. Instead of collecting the



the locations the team cycled round









etches of the four cyclists and soon-to-be game sprites

ical trauma of the journey wasn't enough to cope with, the route took them through some of the most notoriaus neighbourhoods in America and brought them up against racial hatred to the extent where their lives became

In Yeso, New Mexico, a major "red neck" area, the Ku Klux Klan took offence at the fact that white men would fraternise with a black and actu ally threatened the team with death. The hostile weather conditions they came across, such as the sand storms in

the dessert, made things even more difficult, and despite trying to navigate the route from 7-11 stores, 32 days after their departure the team made it against all the odds.

A month after the crew had set out

the journey was over. They completed the ride by crossing over into California on May 6th, 1988

But the celebrations came to a tragic end when Kay Baxter, a close friend and girlfriend of their host, died in a car accident in which Neil was passenger.

This affected him immensely and although he only received minor injuries he suffered deen shock Neil has dedicated the game and the script

to her memory. And it's this story of their epic journey that is making its way into a com-

puter game. But why choose this medium of all means? Well firstly. Neil sees the computer as the most modern way to convey

such a tale, but it's not the only outlet for his story. On their return, Neil and Julian worked on a script that combines fact with some fiction which they're hoping will be made into a film. Neil is very enthusiastic about the forthcoming game and describes it as a

"Martial Arts simulation" rather than a beat-'em-up. Neil has spent a great deal of time with Millennium making sure the moves in the game will stick to those humanly possible - and if they're not realistic, they go.

The game will also incorporate the places they went to and some of the actual people they met. Millennium have taken these real characters, for example the policeman they saw on the trip, and spiced them up a bit!

As to the future and whether there are plans for any more trips. Neil points out that with all the current projects in production, time is restricted, especially considering the extensive training involved. But it's an experience he says he wouldn't have missed for the world and would consider undertaking again.

The cycle ride also led to an invitation for Neil to lead a team over to Las Vegas a year later for a prestigious tournament. The British team took many of the awards, including first place in a Heavyweight Sparring Men's Black Belt, to second and third in Men's Intermediate Sparring, Neil himself also received a "Spiritual Warrior" award for services to the martial arts.

#### STUDIO

Neil's studio is based in Aylesbury. Bucks and houses the Axe Gar Kuin, which is the first full time martial arts centre to be funded by local government

In 1989 the AGK academy played host to the International Martial Arts Goodwill Enterprises (IMAGE) Open Tournament and was attended by martial arts celebrities such as Ted Tabura and Peter Kwong (famous for his roles in The Golden Child and Big Trouble in Little China).

On the academy's emblem is Neil's motto, "Never in Anger will you find honour" and it is this belief that he instils. into his students and the attitude that although you can learn to defend yourself, the true art is to focus on four aspects that must remain foremost in your life. These are work, discipline. control and dedication.

Myster X is not about violence. It is about these disciplines and aims to give the player an insight into the world of martial arts, rather than the usual approach of this genre to make the game as gory and blood thirsty as possible.

It is certainly different to talk to a real live computer sprite and it is refreshing to hear of a game that has more of an intelligent, as well as original, approach. Look forward to the game around November time.

# of Myster X





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The cars themselves will feature many frames of ation so that they move smoothly and realistically



of Nitro and Owak



# vstem o



rom across the crowded room I saw her. She

was partially obscured by the throng of drool-

tem, with Deluxe Paint and LightWave involved in the graphical production This collaboration is

perhaps a little unusual considering the pair live approxapart. Danny lives in London while lamie is from Yorkshire.

They telephone each other regularly to discuss the game's progress, but surprisingly they don't have modems for sending data to one another. Instead they survive using that tried and tested pre-information highway method of transferring files - sticking floopy disks in

the post. Despite the physical distance between the two men, they both have similar hopes for the finished game. Although this is the first time that Jamie and Danny have worked together. Alan Bunker, media manager for Team 17, is equally confident that they will produce the goods

"ATR is the next progressive step from Overdrive," he confidently proclaims. "The game runs smoothly in all directions, the speed is fast and the pick-ups and



The neare of the calm and tranquil forest is shattered as the racers tear around another track with scant disregard for the countryside code

weapons work beautifully.

"ATR has been in development for six months, in which time the game has steadily taken shape. We have no doubt that ATR will be well received - in particular the two-player mode is thrill-a-second stuff and real fun and frantic "

If one player drops too far behind the other, he'll get dragged along but will incur a time penalty. The player with the best time at the end of the race is the victor

#### DEFINITIVE Indeed, the list of features which will be present in

the finished product suggests that ATR could well become the definitive game of its type. In the one player game, five artificially intelligen computer cars are involved in each race, and for added

clarity each car is coloured differently. The player can upgrade his or her car in terms

steering, tyres and acceleration and so on. There are three standard types of vehicle on offer, each with in



cuts start to bite in the world of ATR



could barely wait to thrust the contents of my pocket into her inviting slot. No. you haven't mistaken a steamy thriller for your copy of Amiga Computing and I apologise for lowering the tone of the whole magazine. You've just been reliving my first encounter with

one of the most enjoyable coin-ops ever created, Super Sprint, It inevitably spawned a computer conversion, and since then countless imitators have appeared, trying to recapture the high speed thrills and spills of that three-wheeled classic. Team 17 themselves have already ventured into the

overhead driving game genre with the stylish Overdrive. To be honest, this was probably the least well received of all Team 17's productions

It seemed to lack a certain indefinable something. and it definitely missed a conventional non-modem-link two-player mode. All Terrain Racing, however, promises much more excitement with a whole host of impressive specifications.

It is being developed by a two man team with a suc-Hang on, there's no road, Public spi cessful pedigree. Jamie Woodhouse, responsible for the



itably ATR will be compared with Micro Mach

and Skidmarks. But will ATR live up to the challeng



ATR brings a new meaning to the space race. This is just one of six terrain types high Team 17 plan to incl



time, the programmers say there'll be no slow down

# Terro

own unique abilities and handling characteristics, from the four wheel drive truck thingy to the nippy spaceage car.

There are 36 different tracks in the circuit race mode sione in six different types of terrain including forest. tocky canyons and even space. Tracks include such hazands as bridges, tunnels, ramps, jumps, moving barriers and short cuts, to name but a few.

Various collectable bonuses are littered around the mack which improve traction or top speed, or arm your rehicle with weapons such as homing missiles so that you can quickly dispose of troublesome adversaries in a similar manner to that of the aging SuperCars games. Jamie says that: "with ATR, I want to make it so you dentify with what's on screen. You know - if you have a rocky track, you feel as if the car's going over rocks; if it's a snowy track, you're losing control of the car." He's promising the sort of interaction that he feels

was the missing ingredient in Overdrive. Danny agrees: "We want to make it feel as if you're actually on the mack." Danny and Jamie intend to include everything that

gould be hoped for in a driving game. Adds Danny: "I son't want to look back at the game and realise what we could have put in." Modestly described in the press release as "the growling beast we've all been waiting for", ATR looks

is though it will reach the usual high standards of

neat grap will definitely watch out for is your idea time then ATR will be

Team 17 software, being polished and playable in the

To experience ATR you'll need a 1 Meg machine, but Jamie and Danny are confident that even on an A500 the game will be smooth and slick.

It's due out in October, with an enhanced A1200 version promised for release in November which may include graphical enhancements such as parallax



scrolling. A CD32 version is also in the pipeline, which will no doubt feature an animated introduction sequence of some description, along with an improved soundtrack.

If it can match Skidmarks and other such titles in terms of sheer addictiveness, then there's no doubt that Team 17 will have yet another highly successful product on their hands.



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#### Out to Lunch

French stereotypes a-plenty as top chef. Pierre goes on the trail of his missing ingredients. He's one vegetable short of a casserole, so to speak.

and you have to guide Pierre around the six different countries and recover his escaped edibles. Making life difficult is Le Chef Noir, Pierre's arch-rival, and he will do everything he can to

release all the food you have managed to And what else must every good chef watch

out for? Why, bacteria, of course! Bacteria and insects will try and infect the food, so you must stop them before they reach and rot your farm fresh consumables.

To help you there are colthan valuable The most essential of these is the net that you use to capture the food in to carry them to the cage

A minimum number of ingredients must be collected to reach the next level in a given time limit.

This time limit really does add some excitament (and frustration) to what is simply a verordinary, though very competent platformer.

The bonus level provides some variety which takes the form of Pierre wandering around supermarket collecting fruit, but it isn't all the

spectacular or imaginative by any means Graphically, it doesn't differ much from the A1200 version but soundwise it really has here well enhanced. Springs boing and the baddle whinge to create some humorous sound effect Out to Lunch is quite a fun title for a while especially for a Monday morning/Friday after

noon because it doesn't require any thought a real effort The difficulty lies in having to jump across slick platforms and collect the food in time, but

Publisher: Mindscare

Reveloper: In-house

Genre: Platformer

Supports: CB32

Recommended: N/A

Nisks- 1 CD

it's hardly demanding or particularly original It's nicely done but at the end of the day imonly a variation on an overused idea The password system would have been useful

if it was given after every level, but unfortunately you only receive one after an entire world which become very irritating, and the levels have to be

repeated a great deal If you're desperate for another platformer to add to you

collection then by all means buy it - it's nor that it is a bad game Hard disk install: N/A just not a very original Control system: Joypad





Banshee

Tina Hackett sees what's on

00000000

Fancy being a super hero? Then take the part of Sven Svardensvart and save the Styx Empire from bad guy Blardax Maldrear. With only your trusty flying machine, the 'Banshee', you have to stop Maldrear from taking over the Courtesy of Core Design, you can now get this shoot-'em-up of the century for

the CD32. Scoring a deserved 89% (AMC76) for the A1200 version, it has now been ported over for all CD32 blood fest fans to get their mitts on.

The scenario changes frequently, flying across different terrains and meeting increasingly challenging enemies. As ace pilot of this power-propped plane, you

must blast the enemies and avoid their bullets. And ok, so maybe it's not the most politically correct of games but after all that is all it is... a game. However, if you're the type who finds blasting people to bits a little sick, whether in a comical style or not, then steer clear - though you'd be missing out on one brilliant title.

The two-player mode is a nice touch and you get the choice whether to split the power-ups or not - ideal if your friend is the bonus-hogging type! The three levels of

Graphically it is amazing. It's viewed from a top-down perspective with the flying across the deep blue ocean, the next the Arctic Wastes. Most of the time you

COLL AWARD are rather pre-occupied with

blasting baddies but when you do actually spot all the little details. you realise how wonderful the graphics really are.

This is a terrific title loaded with atmosphere, packed full of objectives to complete and millions of baddies to kill. Sound effects add realism and all the bombing going off left, right and centre makes for a real feast of pure shoot-'em-up heaven





unded: N/A





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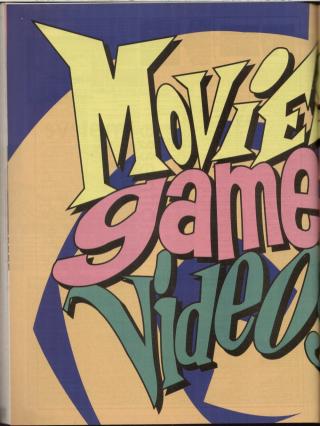
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browsing, all the best Amiga second-hand section

n this age of instant everything instant mash, instant porridge,

After all videotage is cheap, and you can always cobble something together from whatever it is you've shot, right? Well, no, in

A good video production requires planning

those haphazard folks who just turns up with a anyway, you might learn something The impetus for a successful shoot often.

begins in the planning stages. It is during this time that potential problems can be identified and, hopefully, solved, that shooting schedules are drawn up, storyboards consulted and all

Obviously, the simpler the job, the simpler

Have I got the message across yet?

How much planning you need to do if you're doing a home video for your child's will be shooting and where the power sockets.

But most of the time you won't have a due until you've been and eyeballed the gaff for

Full-scale film and TV production puts great emphasis on planning and organisation - they have to because such large projects commonly

places Besides the talent (actors, actresses etc)

there will be a substantial technical crew who handle everything from the camera and its accessories, the lighting, set dressing and

props, art direction, carpentry, decorating, hair camy out specific tasks.

All these people have to be in the right place required. They have to be fed and watered. toiler facilities and transport to and from the location have to be provided as necessary.

All this takes organisation and planning. even on a day-to-day basis. Every member of Sheet at the end of the current day's shooting tomorrow's location(s), where to park, what set, when the sun rises and sets, essential shot and where, and a selection of other pertinent data.

#### DETAIL

Now. I'm not suggesting that planning your Let's take the example of a wedding video.

and locations of the wedding and reception.

before she leaves for the ceremony, shooting

couple's eventual departure. locations in advance if possible, and talk to their

Essential things to consider include such forecast for the happy day might be and how

When you go to each location, try to get an idea of how the place will be laid out on the day you video the wedding - where the happy couple will take their vows, how they will enter and leave, and where you'll need to place

# Planning

With your expertise in uideoing you've been asked to film the 'big day'. Don't get confetti in your lens, get organised. Gary Whiteley shows you how



LUI SUOT OF DRIVE AS CAR





2 HI SHOT OF WINDOW, LACE



.THE CAR PULLS UP OUT-

#### Storyboarding is a vital element of any shoot whether it be the next

lights, camera(s) and sound equipment to get

and all its various dramas and subtleties. better to have as much knowledge as

possible of what's likely to happen, and in

and, unless you have the time - and an understanding minister - it is extremely unlikely that you'll get a second chance if you miss something important. There's probably not much chance of getting the happy couple to go through the missing bits again, so you have to be on your toes right from the start, and to do this your planning and organisation will need to be almost military in its precision.

Of course, there will always be times when all your planning falls apart, but if you're clever, and nimble-minded, you'll be able to go with the flow and keep shooting, unphased by some unexpected departure from the schedule.

If you remember that Murphy's Law states that "Everything that can go wrong, will then you should be prepared for anything

what order, so that you catch everything At each location, make notes and diagrams to help you crystallise the

information that you're gathering. Imagine where the sun (or light sources) will be at time you will be shooting, find out when suitable power sockets are, look for carr positions you can use to get the various s you'll need for the production. Have the forethought to work out the I of the day, how you get from A to B in the

tastest, and safest, way. Decide whether need extra help to move the kit around Wherever possible, make simple storyboards, lists, scripts or shot description to help you cover everything in the mos

There's no substitute for planning and organisation, no matter how you do it. Remember that there's nothing worse for

efficient way.

#### The nitty gritty There are certain specifics that you'll need to consider carefully. Will the

camera need a tripod or will you be going hand-held? Will you need a triped and dolly to get any tracking shots? Can you light the location successfully while keeping the

atmosphere natural and informal? Will you need to close-mic the main action because of excessive traffic, aircraft, children or animal noise? How long do you need to set up in each location? Will a second camera help secure those hard-to-get cutaways and establishing shots while the main action is being filmed.

Live events don't usually offer much leeway for making mistakes

# to perfection

CHURCH

ENTRANCE

#### Equipment checklist

- 1 x Sony SVHS camcorder

- 3 x Tie microphones 2 x Redhead lights 3 x Extension leads 1 x Gaffer tape 3 x Video cassettes (E40)

An example of a small checklist, A

#### Contact me

Gary Whiteley can be contacted by email as droaz@cix.compulink.co.uk Video book (ISBN 1-898275-08-4) from



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resider to be one of the happiest days of their

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aren't happy with it, applicate to them and

## Storyboards

depinnent Check Lists and transport and movement details.

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\*By detailing with details become second advance, but it always as well to have the "entropy show the common sport and the batter handy just in case you've had a hand hight and still need to be efficient in the "handy just in case you've had a hand hight and still need to be efficient in the "handy just in case you've had a hand hight and still need to be efficient in the "handy just in case you've had a hand hight and still need to be efficient in the "handy just in case you've had a hand hight and still need to be efficient in the "handy just in case you've had a hand hight and still need to be efficient in the "hand you had not be a had hight and still need to be efficient in the "hand you had not be equipment."



gets a job which falls short of their expectations and the producer gets a big headache, the makings of an ujcer and hardly enough change to buy some blank tape Even if you're an amateur, try to base your ideo production on professional principal Keep everyone hyppy, do the lob to the best.

of your ability (and the budget's) and deliver Make some profit - it isn't a dirty wordven make a fiving from it if you can. But

planning, organisation and research Film and video production isn't at all the glamorous' business many people imagine it to be it is often long, drudging, boring work. So keep everything on course, avoid too much stress and surprise everyone with your results - by getting your planning right first.

the most valuable production values is to be

found in the thoroughness of you

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# Adding panache

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There are a various assortment of Control Codes that will affect our text in different ways

screen - more on this later. In the middle of

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MODERNICA

In the second part of our Scroller2 tutorial. Steve White explains how you can add special effects to your text creations

which key combination is required to the button labelled Ent at the top right of Scroller2 will then go back to the Edit

the text after and including the J in Joe Bloggs has been changed to the font you Camera



You can also access the Font Selector from the Control Codes screen

Joe Bloggs Sound Dave Smith

Lights Sarah Jones Control Codes you can edit your text to

There are fonts galore in different styles and Sizes. suitable for every different occasion.

You can completely edit your text's size.

# Let it roll

where, in time-honoured fashion, we will pause the text so that Director - Stella Adams stops midway up the screen and stays there for several seconds before finally

disappearing.

The first part of this is relatively simple. Instead of pressing 0 to halt the scroll (as we did in Tutorial!) we can enter a Pause Code. Add four blank lines after Stella Adams by pressing return four times. Press Ctrl to make the Control Codes visible, press F4 to get to the Control Codes screen and then select the Pause 10 code (that's

You may want to use the cursor keys to scroll dow the character set in order to access the Control Codes. When you are returned back to the Edit Text scree you should see the new Pause Code added at the botton

Fress Sick for return to the main menu and then F1 to test projects so far. The credits should social up and then pause for a monent when they reach the Director credit. We can move add some better special executions credit the can move and some better special returns credit to the control of the control of the credit the Central Codes are within. Move the runs to just alto Central Codes are within. Move the runs to just alto the Pause Code, open the Central Codes screen and select the first Tade Down symbolic I asrgae arrow painting downwards in a box; and return to the main

# to Scroller2



oller2 offers you the chance to provide professional deaktop video titles for use with your favourite videos. It is easy to use and impliments a very user-friendly interface

just selected. As with most of the layout functions in Scroller2, any change affects

you should see the letters CC appear next to

Looking through your text you should see mue loss of little boxes which contain

ambols have appeared throughout your The little boxes and symbols are called ATTRIBUTES

If we take the first four lines as an is a Control Code to centre our text. on and then one to use font number 19

All the text that follows a Control Code becomes centred with a drop shadow in

FI Load text FZ Save text

E3 Nelete text F4 Format disk

F5 Append text

Esc Main menu

Don't ferget to save your text regularly We may call upon it in the next issue

Therefore, the word Sound appears in

Try looking through the rest of the credits and working out what is happening. Once Scrotter2 is very logical.

If you want to make the Control Codes invisible, simply press the Ctrl key once again and they will disappear. As you

been using Control Codes all along - it's

Scroller Guide Part 2

If you have understood the principle of Scroller2's Control Codes you will already have guessed that we need to put a font Control Code at the beginning of each line where we want a font to

The line of text after Joe Bloggs is Sound which we want to appear in for number 19 (8)ch50), the one which we started with.

To do this, first move the curson the letter S in Sound and then use the Font Selector again, but this time select Richso. When you insert a font chang you will see a font Control Code added to your text. Don't forget that y will only see it if Control Codes are

enu. Play the scroll with F1 and this time you should see the Director credit first pause and then fade away. You nould also see it re-appear again a moment later and sentinue scrolling. This is obviously not right, so we must ake a couple more additions before we are actually

inter. To correct this final problem we need to add two more Cantrol Codes after the Fade Down code. The first is monther Pause Code - this time Pause Code 2 - and then we need to tissue the Clear Screen Code (CLS). These two cotts codes will ensure that after a slight pause (to allow the fade to take full effect) the screen will be cleared so that are don't get a repeat of the Borector credit after the Fade.

Add the extra codes now and view the results. The extra codes that you have just added probably seem totally illogical. However, there is a good reason for

When Scroller gets to the end of your mand automatically resets things like font, colour and justification to its defaults. One of the other things that is reset is the fade condition. If it were not reset and you did a looping title that ended with a fade down, you would only be able to see anything the first time through. This is because the text would still be faded

And that's it. In next month's issue we will be



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SCART I

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ast of the time Aflexx functions take care of any memory allocations required automatically and transparently. Although rarely needed normal scripts, there are, however, a number of ways to explicitly allocate system memory. You may, for example, want to set up a buffer some temporary storage spacel at a known address and one way of doing this is by using

#### address=GetSpace(size)

want and address is its address.

mirtly speaking, it is not necessary for a script to explicitly release memory acquired in

To my mind, relying on Affect to do your deaning up operations is a bad thing lifnothing else it encourages habits that will lead you into trouble when working with other languages). ARexx does in fact provide this FreeSpaceII function which allows memory to be

Very occasionally, a coder might need rather and in these cases it is necessary to use the

# Memory test

lower level memory handling functions provided as part of the rexosupport library The AllocMemil function provides control

over the type of memory being allocated. It uses the same type of 'flags' as the underlying Exec values given in decimal form like this:

Public Memory	
Chip Memory	2
ast Memory	4
Clear Memory	65536

As well as wondering about the purpose of the numbers themselves, you may well be asking at this stage what a 'flag' is. In the computing world, flags are simply bits

The best way to get the hang of flags and conversion function use is to experiment with short examples like this

present in a variable, or perhaps a microprocessor's hardware register, which have

which require just a single bit of storage space. flac values

By convention, if a flag bit has the value 1, then it is said to be set for true, and if the bit. has the value 0 it is said to be clear (or false). The decimal form of combined flag values always tends to hide the identity of the flags what is needed is an appreciation of the state of

number of standard flag values are provided in the exec/memory h and memory i system

include files ARexx coders do not need to concern themselves with these files, except for the fact that they must use the standard memory

attribute flag values when allocating memory (because the system functions expect this). The bit position definitions of the most common memory attribute flags in binary form are as follows:

MEMF. PUBLIC 0000 0000 0000 0000 0000 0000 MEMF\_FAST 0000 0000 0000 0000 0000 0000 0000 MEMF\_CLEARDDOD 0000 0000 0001 0000 0000 0000

Translated to ARexx hex form these become MEMF PURLIC '000000001's

MENE_CHIP	,000000005.1
MEMF_FAST MEMF_CLEAR	'00010000's
to allocate chin mer	mony united most

a flag value of '00000002'x. To allocate and the appropriate memory type and memory clear flags together. The string '00010002'x for instance would allocate cleared chip.

# **Embedding**

Once you've got the hang of the general principles, memory allocation is easy enough to do, but embedding numbers in the way I've just described is a bad practice.

A better approach in my mind is to define some pseudo constants, ie fixed variables, that act as constant values. Being a diehard C coder at heart, I tend to adopt uppercase conventions like this:

MEMI\_PUBLIC = '000000001'x

With these definitions in place your scripts can then use expressions such as C2D/MEMF\_CLEAR)+C2D/MEMF\_CHIP) to add the required flag values together, and then use the D2C() function to produce the equivalent four byte string needed for the AllocMem() function. The need for the C2D() and D2C() conversion functions make the expressions a little more unwieldy than those coded in other languages, but this approach will allow you to write Afexx

code which makes it very clear which flags are being set. Look for instance at the following two expressions. The second call, despite the fact that it is a

little more complex, leaves you in no doubt that 1000 bytes of cleared chip memory are being allocated:

> AllocMem(1000,020(65536+2)) AllocMem(1000,020(C20(MEMF CLEAR)+C20(MEMF C+1P)))

When you experiment with these types of functions and want to view the flag values being produced, you can always use the C2XII function to produce the hexadecimal output. For instance the statement:

Say C21(MEMF\_CHIP)+C21(MEMF\_CLEAR)

produces an output value of 010002 hex, confirming that the chip memory and cleared memory flags are being correctly set in the resulting string. With AllocMem(), unlike GetSpace(), it is the responsibility of the programmer to return memory after use, and this is done using the rexesupport library FreeMem() function.

As far as using allocated memory is concerned, data can be written to memory locations using the built-in Storage() or Export() functions.

Similarly, Import() can be used to read the contents of such memory back into an ARexx string. Fill deal with these memory read/write functions next month

**Amiga Computing** 





Dan't let ARexx allocate memary for 40u. aet in control. Paul Oueraa shows uou how

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You play the part of the Smallest Billy Goot Gruiff, who worsts to get to the other side of the river where the gross is greener. In order to get there you must cross a member of bridge, each with a resident tool. Self-possoge will depend on your converse to a set of grood, reasoning operation.

TIDY THE HOUSE. Ages 5-9

A first detentine game, set in the tention tention of an unsidy bouse, where the player must get that yearing before and uiter most you go ust and as bit of triping up at the same time. The game helps develop reading and keyboard skills, plus logical flought and planning.

ther Time has game out for the day, leaving you to dog sit the Watch Dag. He's early to look or, just give him his lood and water and total him for a walk and he'll be happy. It's a pay the he l'his have got loose but if you are good at solving time problems, they shouldn't be too much able. You set the type of problems and less of difficult.

CAVE MAZE. Ages 8-13

A first adventure for a slightly older age range. You have behivened a last, hungry and slightly evidenced, body dragos. All you have to do now is to first his liverables, left him and then grade plan. The pare helps the absolute is a maze of overent. The game helps revelop reading and knyboard

PICTURE FRACTIONS. Ages 7-10
This game is designed for those who have just stanted fraction work and who are not yet ready to deal with them in purely numerical form. Observers are presented in the form of justices from which the player must work out of accidence and then answer in either word or number for accidence must work out of the accidence must work out answer in either word or number form.

A game which gives practice in fractions. Any or all of the rules of number can be selected, as as the difficulty level and type of fraction. The samplest level will allow the most hesitant novice to see asset while the hardest will probabily require penal and appear no matter how good you are.

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must be one of the most established Amiga users in the business Formed eight years. finances on a video camera and recorder, Alternative began life as a very small, fledgling video company headed by two partners, Clive Worden

After two years of various videography nonierts. Henri Buiko was brought in as the third partner. Now heading the computer graphics side of the business, Henri explain why they moved into the Amiga market.

We realised that we were paying so to get titles put on to a video and decided that the Amiga would be a cost-effective way of doing it, so we bought a 2000.

Buiko continues: 'I thought it was really amazing - it was only a 68000based 2000 with 3 megs of ram in it. Included with the machine was the usual Dpaint and also Videoscape 3D. Henri began to use the latter more and more, creating three dimensional drawings - I got obsessed with Videoscape 3D basically.

As the company grew, so did the computer graphics side of the operation. Videos began to feature more and more animations and effects. Alternative Image were one of the first buyers

added more memory and larger hard drives to cope with the increase in computer-related work. Next on the shopping list were more 2000s

and a single 3000 for rendering purposes only. Commodore graphics arsenal, Henri is adamant: The basic 4000 isn't fast enough - because we are fully 24-bit already, there's no real advantage

Their current set-up includes four Amiga



A ship elegantly descends to the bottom of the sea as digitised, screaming faces rise to greet it - all created on Real 3D v2



# Blissful

2000's, with the average spec for each including an 040 accelerator card (nearly twice as fast as a graphics card."

On the software side, things have moved on somewhat from the early days: "As graphics became more and more to the fore, more and side just grew and grew Now ADpro, Image FX, Brilliance, Imagine 3.

Real 3D v2 and VistaPro, as well as Forge and

### PROJECTS

Some of Alternative's more recent computer work has been included in projects for Walkers Crisps, Caterpillar UK, Crookes HealthCare and various fitness videos

They have also dabbled in pop videos and the X-MIX techno video series that features various animations accompanied by rave music

At the moment, they are working on a secret project that Henri claims will be "something that hasn't been done before." Take a look at some of the graphics on this page and you'll see that the rather special. Expect a full report from Amiga

A computerised flight over a landscape, created on VistaPro for Nurofen

Computing as soon as we are able to release more details. As for the future, it would seem that the graphics side of the business will grow to be larger than the video production that began Alternative Image's steady climb to success eight

years ago. While the recession did hit hard and employees were laid off, freelancers now form a vital part of the company structure and people like Yuri Large, another staff member, and Martin Bibby, a highly respected Imagine artist, continue to add to the

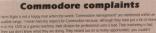
company's calibre of talent. Henri's personal ambition for the oncoming

computer graphics exclusively He also has plans to move on to the much heralded LightWave at some point if he's



Continuing on from last month's visit tn a orofessional graphics house ldam Phillios uisits Alternative mage. oraducers of commercial graphics and

uideos



They just don't know what they are doing. They missed out on so many opportunities, you couldn't Indeed, like Simon Hough of Crystal Haze last month, Henri makes it a rule not to tell clients that he

**Amiga Computing** 

# INSIGHT DINOSAURS



INSIGHT-DINOSAURS is the second title in the INSIGHT series, a lavishly produced title rich in multimedia. You can be assured NISIGHT-DINOSAURS will be visually stunning and technically correct as the title is being produced in association with the British Natural History Museum, one of the world'sforemost centres of excellence in the field of paleoratology. A unique title for trip whole family, produced in a concise, easy to read style which allowed to be used for reference and browsing allike.





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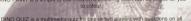


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Il seguencers provide editing facilities although they vary enormously both in terms of the facilities offered and in the s given to the various options. Fortunately, the more common editing function

mose which tend to be available on most issuencers, are usually easy enough to identify from me manual descriptions of what they do. The term 'Editing' is usually taken to mean making tunges to track or sequence data after it has been morded. In practice, the user also has some control are both the type of data to be recorded and the

my that existing track/sequence data should be The usual arrangement is that the sequencer will time a special 'global parameters' page, or list of menu options, whose settings will govern the way the sequencer actually behaves during use. it's here that the user can decide whether the

equencer should use an internal or an external took whether it should provide an audiable netronome click or not, whether it should prtinuously loop through an N-bar sequence or not

Other settings may involve things like being able automatically sending Midi start messages, or rserting gaps between groups of messages which might otherwise be sent as unnecessarily dense

packets of Midi data. In addition to all this, there may be any number of pre-record and post-record parameters and effects

which can be selected. The difference between these two classes of

parameters will govern the type of data actually mored in the tracks and sequences. Post-record parameters govern only how the stored Midi data is A good example of a common global facility is that

of Midi message filtering and remapping: There are a lew occasions when it is useful to be able to restrict the sequencer's recording or use of certain types of Mid messages.

Similarly, it's often handy to be able to ask the sequencer to modify certain types of events. The Midi Echo/Thru option, which allows you to change the channel number of incoming Midi data before it is stored and retransmitted, is one example of a prerecord effect, but usually much more can be done. Sequencer One, for instance, has a Set Filter action which allows many other types of Midi messages to be filtered and/or modified.

Note on/off, polyphonic aftertouch, program change, pitchbend, and controller information can all be selectively filtered out. It's also possible to convert

# Getting it right



& Pipes Pro provid extremely powerful

particular area is concerned and Music X is also good If you used a post-record filter option to remove

program-change messages, you would not prevent these messages from being stored in the track or sequence but, even though they ended up being present, any program-change messages would be skipped over (i.e. ignored) when the data was

#### MESSAGES

The big difference of course is that if, in the latter scenario, you cancelled the program-change filter option, any 'hidden' program-change messages would be brought to life and would again become part of the sequencer's output stream

Post-record options have the benefit of flexibility because you can always undo a particular setting. Pre-record filtering options, however, do still have a use as far as the elimination of the storage of unnecessary information is concerned Jused to be handy on machines where memory was tight).

They have, however, become increasingly less attractive as the general editing facilities of

Nowadays, it is normally feasible to record eventhing and then decide retrospectively what Midi data is to be kept and what data should be

Sequencer One, for instance, includes facilities for selectively stripping out particular event types from a given track. Again, most sequencers offer similar facilities and with some it is possible not only to strip events, but to divert those isolated events to another

channel aftertouch messages into controller data. remap controller numbers or even convert controller data into channel aftertouch messages.

the original Midi input stream get lost forever). filter options and Dr T's Tiger Cub. Music X etc., all. have similar (although not completely identical) Some sequencers are also able to produce filter

and conversion effects after the data has been stored. These are post-record options and here the effects and settings work on the output side of the

These particular Sequencer One facilities are all of

the 'pre-record' type. If, for example, you decided to

set the Sequencer One up so that it would filter out

subsequently recorded would end up containing no

program change messages at all (any program-

change messages that might have been present in

Most sequencers provide these types of pre-record

program-change messages, any track data

# Repeat performance

Usually things are not quite that bad and you simply find yourself in a situ most of what you've played sounds fine – but there are just a few places v theen made. Wouldn't it be nice if it were possible to go back and change to the second state of the second second

fuel notes in the track or sequence, remove ones that shouldn't be there, ade hould be there or perhaps alter the pitch or duration of some existing notes. ing made such changes, you just hit the sequencer's 'play' button and the 'co in' will sound the way you wanted it to sound in the first place.







Paul Oueraa shows you how to edit JOUR SPOUPORPS

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here comes a time in every mars? life when he realises he has a sprinkal side. No. If mox going to state chanting, here seems to be a thread numning strough in the little time the little time they will be the little time they will be the little time they will be so their personality and they use the Net as on poporturily for expanding these beliefs and emuring that as many people as possible get the benefit of their lides of the little time.

Some people just collect odd beliefs and add mem to the growing number of weird and wonderful files you can read on the Net.

The most interesting stuff is centred around the various bogus religions which have surfaced over recent years, which at the same time lampoon and compete with the very religions they are set up to

Discordianism is one of them, and the Church of the SubGenius is another. Other stuff is just odd anowledge with nowhere else to go, like information about UFO contactees. JFK phenies and other life-deforming nonsense of every other.

colour or another.

You can loosely categorise the mystical aspects of the Net into these groups:

- High Weirdness
   World Religions
- Bogus Religions
   Weird Science
- Weird Science
   Conspiracy Theory
- UFOs
   Magic and Occult

All these topics are readily discussed, and okay, you might not be looking for a new religion right, now, who is? But it is absolutely fascinating and well worth the time it takes to seek it all out.

So here is a roundup of various bits and bobs.
The been reading over the past few weeks. Most sources die other sources, so by copping a feed to one source you are connected to other sources of info as the same time.

 Bogus Religions – the best chat about bogus religion, and also some of the funniest and oddest



There is something for everybody on the end of the phone

## On the other side

people on the Net are to be found in

alt.discordia alt.illuminati

Stack is the SubGenius newsgroup, discordia is the Discordians, and illuminati is based on the excellent religious/political conspiracy theories of Robert Anton Wilson. Great stuff. You might also try to FTP to:

in the directory: /pub/subgenius/\* as this also has

infamous SG newsletter.

• World Religions – if you want to know more about, or flame people who believe in any world reliaine which takes your fancy, here are the

groups you should be joining:

alt.religion.scientology
alt.religion.sbannism
alt.spaps
alt.stranism
soc.religion.bahai

soc.religion.babai soc.religion.christian soc.religion.eastern soc.religion.islam soc.religion.dawker

Obviously, making people in the Satanism newsgroup mad with you is not to be recommended.

 UFOs – if you've been abducted by aliens, then these are the groups where you ease your pain with a group of like-minded individuals:

> alt.paramet.pa alt.paramet.pa alt.paramet.sc alt.paramet.sk

alt.paramet.skepti alt.paramet.ufo

Obviously if you can't get a Usenet fed in Alpha Centauri, then you're stuffed.

• Conspiracy – just because you're paranoid.

doesn't mean they're out to get you. Of course those guys across the street in the Range Rover with the tinted windows might just be lost and looking for directions. For solace, and even more things to get worried about, try these newsgroups:

alt.mindcontrol

and then... wait, what was that funny noise

 High Weirdness – the ultimate guide to high weirdness on the Net is the High Weirdness By Email guide, available by anon FTP from:

estopoke.alb.seaf.barrfs.com
among others. Usually to be found in the

directory:
/pub/weirdness/weird2\_1.doc

Look out also for weird2\_1.sup, a supplement to

 Magic, Magick, and other Occult Stuff eye of newt and toe of bat, ah yes, the black arts.
 Let's cast an eye into the crystal ball and see whathous to the too.

To find texts and documents by the completely bat's ass Aleister Crowley, you need only FTP

<slopake.mlb.semi.harriscom>

in the directory:

Also try the Wiretap Gopher, one of the best sources for hard-to-get info, by gopher on:

and check out the Occult listings.

 Weird Science – the odd, bizarre world of alternative science. I love it to death and so will you. Perpetual motion machines, forgotten patents, suppressed information. You'll find it all

Interested in cryonics? Well get you hence by monymous FTP to:

47518.815.600

/pub/usenet/news.answers/cryonics-fag/

and all will be revealed. It might be an idea to wear a good stout jacket, because it's a bit cold in there.

Try also a gopher to:

the standard repository for odd info.

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Phil South looks at mysticism on

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Acorn

essing about with screen colours is a bit of a chore in Amos, as the program lacks any really simple palette or colour niculation tools. Mostly you have to resort to tricks and tips which other people have coded which is exactly where this little beauty from Marc Due this is doubly fiendish as Marc has figured

Amos screen, and does it very elegantly The code is a really good example of how to manak colours in a user friendly way. It's also

who knows me will tell you I prefer not to use, but What? What do I use instead of PROCs? Why

submusines work faster and are easier to debug. miff like that. That's just my idea, and the other way works just as well. Anyway, back to Marc's

First a global variable assign:

meaning that the variable CBACK can be used by all

other parts of the program, including any PROCs. Next we tell the program that CBACK is equal to

Fine. We're obviously going to do a little bit of

This calls the CB procedure, then returns and calls it again, over and over until your eyes cross.

Protedure (B[0]

First define it, then dimension your arrays, two of

Then we do a little fine shuffling of the colours: 5+0840X

mod is a mathematical term which enables us

#### Monitor it

viously if you're running Easy Annot or too it Pro, then you will be able to run it orgam with Monitor and see the effect each function as it executes. It's also a good idea to clear the screen the background colour, or you will we a big brown quare in the middle of the screen. I also printed an IFF file on the company of the properties of the screen. I also printed an IFF file on the properties of the properties the properties of the properties the properties of the properties the properties

## Fade to back

## See how res to

values. It stands for modulo and works by

Int/B/C)\*C. This sounds complicated but it really interesting effects, like allowing you to toggle between two values.

So as A increases in value, B mod C creates a

of numbers to get a nice useful series of semi-

This looks at the numbers you've created, sorts

Walt 2

them, and INCs and DECs the final figures accordingly. Lastly, the figures are fed to a Colour Back command, which cycles the colour of the

background in a pleasing way.

Then wait a bit

repeat until loop in motion:

returning the remainder after a division.

tweak colo

Amos code

head Phil South looks

at a niftu rautine for fading the

harkoround

rolour

Until 0=(6(0)\*256+6(1)\*16+6(2)) (BACK=9

Then you can end the PROC

And there you have it. It's a nice simple program. but the maths is a little complicated. Try pulling out the mod part of the program and running it as a loop so you can see how the program generates its numbers and therefore

line into the program after each mod line, like so:

and the same for the Gill array, and as the

organ runs it'll print out the figures which created that event.

#### Write stuff

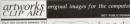
If you have an Amos question, or a routine you'd like to share with the world, then please write to Phil South, AMOS Column, Amiga Computing. Europa House, Adlington Park, Macclesfield, SKID 4NP

And carry on until a certain circumstance exito cycle a variable through a repetitive series of

It's easy to do this, as you simply add a status

Print R(0);" - ";R(1);" - ";R(2);" - ";R(3)

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#### ne of the most annoying things about fonts, including some expensive professional ones, is that they don't

sure, all the standard letters and numbers are ere, but sometimes there are punctuation marks suring, or foreign characters that you absolutely amont do without, or, as is the case with many sureware fonts, the good old British pound

What can you do? Well, you can buy a unlessional font that contains everything you red, and this will set you back perhaps £30 – or myce five or six times that if you have to buy an

Alternatively, you could invest in TypeSmith (if on haven't already) and fix it yourself. Let's go mough the steps required with a real world ample: the Times-Bold CG fore from Gold Disk's Dutine Fonts Pack, which has no fraction symbols

Luckily for us, the standard Workbench

Giffines font does have fraction symbols, so we
an ninch them from that

#### IMPORT

The first job is to run TypeSmith and import the CGInes-Jont file from FONTS\_bulke, outlines, then import the Times-Bold Lib file from GGFonts—as one will come in with CS Times Bold as the name of the font, whereas the Workbench font is called CG Times.

Organise the two windows on the screen so that they are both visible and you can see a full character in both. Click in the CG Times window and select Show Overview from the View menu. Click on the quarter symbol in the overview and press Right/Minigs-C to copy that character to the clipboard. Now close that overview, click in CS Times Bold window and show the overview for the coveriew for the content for the content of th

that font.
Again, click on the quarter symbol (it will be white, indicating that no character exists in that whole), and press Right/Amiga-V to paste in the quarter symbol. Do the same for the other

When you are finished you can close the Workbench CG Times font as we no longer need

Workbench CG Times font as we no longer need to use it. Double click on the quarter symbol in the CS Times Bold overview to open a window for that character. At the moment that symbol has a widt of zero, so the first thing to do is give it a width. Ensure the quarter symbol is the active

## All change



CG Times into the clipboard



PUBLISHING



Use the Scale feature to make the fractions better fit the Bold design

Market Ma

window, then select Metrics from the Edit menu. In the Width gadget type 900, press Return and hit the Use gadget.

nt the use gadget.

You should see a vertical dashed line appear to the right of the quarter symbol. Do the same for the other fractions if you have added them to this

Right, that's the widths sorted. The final step before exporting the font is to adjust the appearance of the fractions slightly so that they better fit the desion of a bold font.

Click in the quarter symbol window and press RightAmiga-A to select all the points, then select Scale from the Path menu. Ensure that you have the top radio gadget selected so that the scaling is performed relative to the centre of the character, type 120 into the Horizontal cadges

and hit OK.

This will slightly fattern the vertical strokes of the character so that it is in keeping with the fat vertical strokes of the rest of the font. Note that we cannot scale the character vertically otherwise it will become tailer than all the other characters and look we'nd.

Again, do the same for the other fractions. And that's it. All that's left is to alter our font attributes to give our font a unique name and ID so that it does not affect the old Times-Bold font. INFINITY

#### So select

So select Forn Attributes from the East menu and change both the Fornibame and the FallMame to CSTmesBislaDTR, and change the FallMame to CSTmesBislaDTR, and change the FallMame to CSTmesBislaDTR, and thange the Fall D number, to a specific provided by the Contribution of the Amiga user bits fornt ID number, total st would be wise to change it anyway, create you consist provided by specific provided in the Contribution of the Contribution of

message active gas mont in as a GS find, not forgetting to select the gadget that ensures the .dat and .metric files are created for ProPage. For heaven's rake, don't overwrite the old Times-Bold lib file – you might need it again some time – call your new font Times-BoldOtr.lb or anything delay you fancy.

The filesize of this new font will be quite a lot bigger than the old Times-Bold lib file. That's because in the import/export process TypeSmith has had to add more points to every character.

#### All over again

If you ever need to add to this font again, you should start from scratch using the original Times-Bold lib file otherwise even more points per character will be added, and after only two generation the font will become almost half a megabyte big and fail to display.

You can type the new quarter symbol in ProPage in two ways: either press Alt-5, or hold down the Alk key and type 188 on the numeric keypad – 188 being the number of the quarter symbol in ProPage's character set.

Perhaps into gar-roo or the reliable kepped - roo deng or reliable or be quarter symbol in ProPagae's Character set.

The half symbol is number 189, three-quarters is 190. (These character numbers are defined in the cachadrate file in the CGFonts: drawer.)

Naturally you can after and add to fonts for use in other packages – I've used ProPage and Times-Bold merely as an example. Another candidate for afteration are the CSTimes fonts that come with PageStream; these don't have the @ "at" symbol in them, which again you can pinch from Workhaper's CSTimes fore:

One last thing before I leave you to it. If you ever find that your new character won't display, It'll almost certainty be because you forgot to give it a width in TypeSmith.

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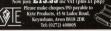


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