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SVSTEM NEWS Andy Maddock brings you all that is weird and wonderful on the Amiga games scene

HINTS AND TIPS 84 Okay, so you got a bit stuck? It took us three months to get this far, so stop complaining. We lost sleep over this - honest

WATCHTOWER Commando meets Ikari Warriors in this topdown blast-'em-up-type romp by OTM, Ooh, it's areat

CHARLIE I COOL Cool Charlie returns to the Amiga screens for the second time, although this time has been revamped and everything



CAPITAL PUNISHMENT Andy Maddock talks to the producer, Alexander Petrovic, to find out more about the excellent forthcomina beat'-em-up

XTREME RACING DATA DISK 94 Guildhall's dreams to release a data disk have come true. If you want new graphics and tracks, feast your eyes upon this

PREMIER MANAGER 3 DELUXE 96 You can forget about Actua Soccer on the PC and Playstation right now because the deluxe version of Premier Manager 3 is here

ALIEN BREED 3D 2 The sequel to Alien Breed 3D is finally here. Download a demo from their homepage - the address is on the news page



REVIEWS

WORDWORTH 5 The word is given on the final release of Digita's all new copy cruncher

CLASSY GRAPHICS The latest mouse replacement plus an all new graphics tablet get taken for a test drive



DEVKIT

The omnipresent Mr South casts a knowledgeable eve over the latest extension to our old mate Amos

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MODELLER 4.0

Paul Austin takes a close look at the straight

man in the Amiga's premier 3D partnership

FINAL WRITER LITE Could Softwood's slim-line WP steal some sales from Digita's big budget production number



MACROFORM

The ultimate LightWave add-on or just another collection of expensive macros? Ben Vost investigates

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LASER GUIDANCE Andy Maddock spins those wheels of steel in the latest incarnation of AC's very own CD special

OPERATION DATABASE 63 Paul Overaa moves to the second phase in his latest programming extravaganza

HARD DRIVE ROUNDUP 67 The big, the bad and the over priced, Frank Nord



BEGINNER'S GUIDE Dr White coughs up another panacea for the

growing pains of Amiga ownership

HE COVERDISKS

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REGULARS

COMMENT

Will the bundling exploits of AT destroy the software market? Ben Vost puts the argument into perspective

NEWS The news just keeps flooding in - needless to say our

The punter's opinions on the good, the bad and the ugly in the volatile Amiga business ACAS

Our very own tech-psychologist probes the dark recesses of Amigaphobia. What a nice blokel

PUBLIC SECTOR Dave Cusick searches through the best freebier and cheapies in the AC PD spectacular

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in-house new hound is out on the case MIGA GUIDE

Tthe menu tour comes to a close with a final foray of menu add-ons













the latest Internet developments





FTTERS

multimedia concludes with a close look at buttons



Paul Overaa scans over the 117 good and the bad in the Amiga music scene



Building the body perfect? Steve White tells all when it comes to tasty torsos



Gary Whiteley runs throuh a few videographic stories prior to a summer of fun



Paul Austin takes the first steps to building the perfect bad guy

MAKING WAVES 53



as gently as possible, the innocent Interneter through the trials and tribulations of getting online with the Amiga

Neil Mohr guides.

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t has been said before. It will be said again. The Amiga market has itself in a stranglehold. No-one else is killing our machine but the users, companies, and publishers that are supposed to be supporting it.

We all think the software bundle that accompanies every Amiga these days is the best yet, a smashing set of products, but the only problem with giving away all this nice software is that it reduces the chances that anyone will bother to buy anything else. If you supply a machine with everything its owner is likely to need, where's their incentive to go and spend some more money?

Sony themselves said that they purposely didn't bundle any software with their PlayStation console for the specific reason of getting people to fork out more cash for something to play on it. And everyone knows that in the console game, software is where the money is made. Perhaps future bundles should concentrate more on shareware products or ones that definitely don't fulfill the potential of the machine. This might also cost a lot less for AT than market leaders would, thus saving some cash for R&D or perhaps adding in a larger hard drive.

RIPPED OFF

Magazine publishers are as much at fault with a seemingly endless stream of full product coverdisks that will soon dry up as publishers realise they will get no further revenue from sales to end users. This approach also alienates the end users who have paid good money for a product, only to find it for free on the front of a magazine six months down the line. Now I don't subscribe to the theory that these people have been ripped off - they've had six months of usage out of that program, they have proper documentation and (possibly) support and a firm upgrade path - but there are those that do.

We at Amiga Computing have pretty much (only pretty much) given up on the idea of selling our souls for a quick buck as we have realised that the demise of the Amiga market can only be accelerated by such behaviour, and we are concentrating on offering our readers the best demos of new products or registered shareware which actually helps the Amiza community, or even our collection

Killing ourselves



Does bundling software or putting it on coverdisks kill the market? Ren Vost thinks so

of utilities from Aminet and elsewhere. After all, some blame must be laid at the publishers' doors for entering into the deal with the magazines for their products anyway.

If they were more willing to create demos of their products rather than simply dump out old versions, readers could get a look at new software and then, and here's the secret, go out and buy it... ...provided. of course, they can still find someone who sells Amiga software. Retailers are never happy to see something they have in stock appearing on the front of the magazine because it means they have wasted money on stock that is never going to be sold - perhaps this is another reason there are so few dealers

willing to stock Amiga software any more. I'm not asking anyone to boycott magazines that put full software on their covers. that would be unrealistic. But unless something changes in the very near future, there won't be any more programs to put on coverdisks because the publishers will have gone down the pan, the users will have sold their Amigas, and AT will be left holding stock of thousands of unwanted Amigas for which there is no market. Just thought you ought to know...



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S HOW TIME

ore news from the World of Amiga is that Zeus Developments will be alaunching a new bulletin board software package for the Amiga. Called Zeus, it will support links to the Internet and users can be allocated e-mail addresses, read UseNet, and download files from the Amiga software directory. The package contains industry-

standard communications protocols such as Hydra, RIP Graphics, IEMSI Logons. Zeus's Nick Loman commented: "Zeus contains a revolutionary new communications standard for the Amiga which features an attractive graphical user interface, sound and vision capabilities, and an increased operating speed."

ANORAKNOPHOBIA

le proud to be a competer around. Or that the message Channel Four are trying to a cross in their latest channels a prices. Called Trimped of the levels, it has the sets of not before shot understand the major players in the competer adulty to make mall militation of the competence of the processor of Competer adulty. The left programs impressing their french the beginning of the prescuol competer adulty. The first first if the first gap stress due to hook to a called main competer. Insented the The first in the first gap stress due to hook to a called main competer, insented the The first in the first gap stress due to hook to a called main competer, insented the first gint first in the rest in the series and sees that energy the manufact, and the first fideling the first is the rest in the series and sees that energy the manufact, and the first programme. Creat in State See, "A hous Elf-Carde developed the Visidous systems a competition with Maximoto Trimping of the teeds will be screened the Septime and in made by John and Productions and Organ Public Grandacting for Channel 4.

TRUE COLOURS

ver the last few months Pragma have released two new products worth a mention. They are the new range of Colory colour copier interfaces, the Colory E4000 and E5000. Both use Colory's diamond press compression technology. Doug Barnwell, Drixtional Manager for the Colory, commented

"When we first saw the new models with diamond press compression technology it was immediately apparent that the speed advantage was tremendous, allowing ripping of colour images in continuous tone of up to a tenth of the conventional size." Pragma also distribute Printronix products in the UK and as such announce the launch of the new 5000 series line matrix printers which promise new low costs. Pragma state that this has been achieved by ensuring all models use common parts, with only the hammer shuttle assembly different to each

printer.

The necessary intelligence has been incorporated onto the shuttle assembly and has therefore reduced the number of parts for each machine.

IGHTS, CAMERA, ACTION

TALK TALK

American company. Parth Calen Software, have released three programs to provide syndretic speech for the Amiga. The first product, called Soffaik, is a fully companies of the original Aming basic voice output for existing programs, it provides up to four channels of voice output. Soffaik is a programmable synthesiser and also a range of speech effects which can be accessed by newer programs.

Parth Galen have also released TransMaker which allows text to speech translation for any language, and PhonMaker which lets the user design voice phenomes. Both TransMaker and PhonMaker cost \$47.50 and run on Amiga systems using Version 2.04+ software. Their output files can be used by the SofTalk synthesiser.

SofTalk is available for \$7.50 (foreign postage charges are extra), and Parth Galen can be contacted at 24475 158th Avenue, Cold Spring, Minnesota, USA 56320.

AMIATLAS



∩ Roll up, get your AmiAtlas

ollowing our AmiAtlas review we've had various enquiries asking where you can actually get the product from. So here it is:

Andreas Regul, Gutenbergstrasse 5a, 64289 Darmstadt, Phone +49 (0)6151
718950.

0/10 Software, makers of many an educational title, are making their products available though Guildhall Leisure. The Guildhall name may ring a bell amongst those who browse our games section as the company have had great successes with titles such as Gloom from Black Magic and Super Skidmarks from Acid Software The range of software from 10/10 has

been re-packaged and is now available for £14.99. Their current titles include Essential Maths and Early Essentials, but more are on the way such as Essential History aimed at the 5 to 12-year old and Essential IT for all ages.

0/10 FOR CD32 SOLUTION



∩ The new \$X32 from Eyetech provides a portable multimedia solution

vetech have announced their plans to make the best out of the CD32. Disappointed by the lack of expansion facilities and input/output connectors, they are now releasing the SX32 expansion unit to provide a portable Amiga solution with builtin CD-ROM. Claiming to be 'every thing the SX 1 should have been' it fits in the CD32's FMV slot and incorporates the Amiga serial, parallel, video and floppy disk connections. As well as having a standard 15-pin VGA monitor connector, it also allows the addition of a 2.5 inch hard disk drive and a 72-pin

SIMM within the CD32. Evetech believe that as the SX32 only sticks out 1 centimetre more than the normal CD32, and because of it's sturdy attachment, it makes it an ideal portable, low cost, multimedia option. The compatible keyboards and floppy disk drives are also available from Evetech. The SX32 comes with a Workbench 3 CD which also has various utilities and PD/Shareware programs. The SX32 is £199.95, the Compact Amiga Keyboard, £34.95 and External floppy disk drive £44.95 (UK prices). Contact 01642 713185

FREE REER

Now we have your attention, we just want to say thanks for the great response we've had to our Reader Surveys. Still keep them coming though - there's no free beer (that was a cheap trick) but there is £200 worth of software and hardware tailored to your computer's needs up for grabs.

We'll put your surveys into a draw and the lucky winner will be announced in our 100th issue. All your entries must be received by 6 April, so send them to Reader Survey, Amiga Computing, Media House, Adlington Park, Macclesfield, Cheshire SK10 4NP.

ON THE MOVE Amiga distributors SDL have announced

that the company are set to move to new premises in Woking. SDL, which also incorporates the retail chain Silica, were recently saved from financial strife by a take over by the Anglo Corporation. The move will mean expansion for the

company as the new site is around 10,000 square feet bigger than their current premises. However, although all the current staff have been offered jobs at the new site, it's thought that some staff may not wish to relocate

LORD OF THE FLIES

Congratulations to Ben Vost, our Pog-collecting Deputy Editor, who has been promoted to the role of Editor. Vost was too emotional to comment at the time but has since been sighted wearing big black boots and brandishing a whip

SIGN OF THE TIMES

A recent article in The Times Interface computer section hailed the Amiaa as "the leading games machine and now one of the foremost multimedia home computers" in their recent article announcing The World of Amiga Show. Praise indeed....

SCALA OOPS

While we may have been on the ball in getting you Scala's new phone number in the UK, we didn't actualy give you the right number.

them.

The number you need to phone is actually 01920 484811, and it is their fax number on 01920 484148, in case you need to fax

CALL FOR ACTION ON PIRACY

a ccording to industry paper, CTW, some of the big games firms are calling for a separate body to fight piracy. Currently, ELSPA (the Entertainment and Leisure Software Publishers Association) have their Anti-Piracy Crime Unit dealing with the problem. However, following the recent news that the Police and Trading Standards could refuse to take action against pirates unless the industry actually provides more resources themselves. some of the major players are suggesting that ELSPA's Anti-Piracy Unit is made into an independent body.

This, they believe, will make the industry more focused on the problem. ELSPA answered by saying that the suggestion had not been thought out properly and that the Crime Unit worked as a standalone organisation arraway.





OWERING ABOVE Blittersoft have a new range of Amiga Tower systems and expansion

Shuttle boards available. The standard Tower has a choice of several front panel designs

and uprated PSUs are available in 230, 250 and 300W ratings. Shuttles available are the Shuttle 2000, 1200, 1200PCI, 3000, 4000 and the 3000PCI and 4000PCI.

News also from Blittersoft this month is that they are now the exclusive distributors of products from Canadian company, AsimWare Innovations Inc. Blittersoft will also be releasing MasterISO from AsimWare Innovations, a program which allows the user to create an ISO image which can be written to a CD-ROM recorder in order to create custom CD-Rom and CD-Audio discs.

Catch our review of MasterISO next month, with a roundup of CD-ROM Recorders

IDEO STAR

ondon company. Connections, have a solution to your video making problems. If you can't afford the equipment or you don't know how to make a video, then they are offering a range of services to help. Various training courses are avail-

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at London-based Connection



or those interested in home or professional video production you may like to know that Diskotech have announced the release of their new collection of animated titling fonts. Following on from the original MovieFonts, it works with all Amigas with 1Mb using Deluxe Paint or similar. Available as a 10 disk pack, MovieFonts 2 costs £40 and contains 18 original colour fonts which share the same palette for mixing and matching without colour conflict. The set is available now from Diskotech, Melin-Y-Garth, Builth Wells, Powys LD4 4AW.

ISKO

MovieFonts 2 is now 5 available for both home and professional video users





SCOM JARGON FIESTA

e've recently received a news release from Amiga Technologies regarding Escom's shares. After ploughing through all the jargon, the gist of it is that Escom have now got some more funding but have had to give up some centrol in terms of shares...we think.

Apparently, ESCOM AG have increased their capital with a cash outlay of DM59.994.000. Escom explained: "The new shares have been taken over by Commerzbank AG for the issue consortium and will be offered to shareholders at the earliest possible date after presentation of the 1995 annual report

The increase in capital is part of an agreement between the company, its associates and bankers by which the company acquire new resources amounting approximately DM100 million." Manfred Schmitt, the principal shareholder in ESCOM AG, has transferred 16 per cent of the base capital to the BV Beteiligungsgesellschaft GmbH, a subsidiary of the Bayerische Vereinsbank AG, and a further 2.5 per cent of the base capital to Siemens Nixdorf Informationssysteme AG. This in effect means that Schmitt's share has been cut by nearly

STENCII LINEEILL

The company gave this official statement: "By this action shareholders and banks have created the right conditions to give ESCOM AG a more solid financial base and an extension of its circle of shareholders enabling it to develop its business successfully."



WHITE WEBBING The first wedding to be broadcast live on

the Internet is about to take place in Istanbul. Virtual quests can link up for the ceremony or even chat to quests at the actual reception.

Apparently, the site will be running after the event with a Baby Album being promised for the near future!

EXPOSED

A new initiative has been set up to allow the public to use the Internet as an anonymous way of blowing the whistle on any dangerous or illegal practices that are being covered up. The team behind it. called simply Whistleblowers UK, is made up of journalists and industry people who aim to make the site a safe way of employees speaking out against employers, where previously they had little protection for doing so.

The Internet site is based outside the UK so that the sender cannot be traced Post your worries and Whistleblowers UK will then investigate. Find them at http://uk-commerce.com/whistle/

OFF THE RAILS

British Rail are joining the Information Super Railway by launching their own Web site. Called British Rail International, it will have information including major rail networks in Europe with plans to include accommodation and restaurant advice.

The pages cover UK, USA, Europe and Rest of World and by clicking on the country you are in, you can then access various options to get the required info. whether it's booking details, prices or routes. BR are stationed at http://www

ATEST FROM CLOANTO

loanto are gearing up their products for the Internet as their Personal Paint 6.4 is included in the Amiga Internet Surfer Pack. They claim that Personal Paint proves ideal for Web publishing as it offers professional colour reduction, dithering, quantization and antialiasing algorithms. The package also supports new

Web graphics formats such as PNG. Check out the Aminet and Compuserve for Cloanto's new GIF I/O module ('personal_gif_io.library' version 5.0) for their Personal Paint package which they've just released into the Public Domain. For Aminet go to

gfx/conv/gif io.lha, for CompuServe GO AMIGAUSER, Cloanto have also been busy on new DataTypes to be included in the Surfer Pack. The DataTypes which are for the GIF, Jpeg, PNG and XBM formats, support 24-bit DataType tag extensions, and can pass true colour data to applications like the CyberGraphx software. They can also process around 99.5 per cent of pictures on the Web -a

higher percentage than comparable Mac and PC systems. A new CD-ROM is on the horizon too. Called The Kara Collection, it is a compilation of ten years of artwork from Kara Computer Graphics and is the first time some of this material will be available to the public, Ideal for pictures, animations, presentations and titling effects, the collection will house 80 ColorFonts and AnimFonts which can be used to create animations with any Amiga package that supports Anim-Brushes. It will also contain Starfields animations with moving stars from different perspectives and Plaquegrounds with textures such as marble and

For more information e-mail Cloanto at <info@

Library 8, GIF IO.LHA

Softwood creates new windows



S oftwood, well-known developers of the 'final' series of Amiga productivity software bounding final Writer, Final Data, and Final Cale, recently amounted plans and specifications for Final Data, and Final Cale, recently amounted plans and specifications for Final Writer for Windows 50 computers. The first releases to be fire, when a SZ registration fee in order to obtain the spell checker, thesaurus, hypheration, and curs, to fauture. The software will be available for download from Softwood's Web site,

http://www.softwood.com.
Now that Softwood has a Web site, they're putting it to good use. In addition to offering per-Now that Softwood has a Web site, they're putting it to good use. In addition to offering personal Web sites for a fee, Softwood has opened an Amiga Mall at http://www.amigamall.com.
Soral Web sites for a fee, Softwood has opened an Amiga Mall at http://www.amigamall.com.
Here, commercial and shareware Amiga developers can offer their products from a central Web

location.

Softwood can be contacted as info@softwood.com or on (001) 602-431-0949

BROWSE BY HISOFT

While no confirmation was available at press time, reliable sources within Omnipresence Development, the team behind the IBrowse World Wide Web Browser, indicate that their product will be

Hisoft is perhaps best known for their Squirrel SCSI interface for the A600 and A1200 and their Twist database software. They have already made moves to get into network software already, with the appouncement of their imminent Surf Squirrel, the PCMCIA interface with both SCSI and a high-speed serial port for better

In addition, their North American development and distribution partner, Oregon Research, is expecting to launch their own network interface suite to go head-to-head with AmiTCP and I-Net.

Called Termite TCP after their popular terminal program, it is planned to be exhibited at the World of Amiga show this



be seeing iBrowse appearing on the HiSoft homepage in the near future

CONTACT

You can contact Jas Compton with you

> jcompton⊕xnet.com Editor-in-Chief, Amiga Report Magazine (708) 741-0689 FAX AR on Aminet – docs/mags/ar???.Jha kR Mailing list – Mail m www. –

http://www.omnipresence.com/Amiga/News/AF www.cucug.org/ar/ar.htm

EW PRICES

Warming up for the National Association of Broadcasters (NAB) wideo-related conference, Draco Systems have announced a pricing schedule for the Draco non-linear editing computer from Macrosystem

CmbN. The base Draco, an OGO-based Arniga compatible computer with the Allas ingin-speed graphics card using the Cyber-Graph's spierns. Is USSY30. For USS8978, the unit includes the Toron SI 4-Jah Michol and Lamer editing caul. (Alternately, cuirent convest of the Laid Michol and Lamer the card on the Ingin edit, the Draco Michol and Laid Charles and Laid Charl

AdPro Suite, consisting of AdPro 2.5 (with additional bug fixes), all available loaders and savers, MorphPlus, the Scanner pack, the Pro Conversion Pack, and additional CyberGraphX and Retina support.

Draco Systems will be attempting to pierce the hotly contested non-linear editing market, currently courted by such Amiga and former Amiga companies as NewTek, PLAY, and CEI.



WONDER RESOLUTION IN SIGHT

After an unsuccessful attempt to buy back the assets of the company, CEO Mark Habinski will face off against any interested bidders as the assets of Wonder Computers of Canada are auctioned off on 21 March 1996.

Before entering bankruptcy in late January, Wonder consisted of a six some retail chain, the Lazanus Engineering.

division, and the Information Technology division. Despite the success of their World of Amiga show in December and growing asies due to the availability of Amiga computers in North America, Wonder's loan was recalled by its primary creditor and was unable to continue as a going concern. Since 1991 Anti Gravity Has Been The Leader In Bringing To The Professional Market The B Bleeding Edge 3D Animation and Desktop Video Products Available! For A Complete Listing The Products You Want Or To Order On-Line: Visit Us On The Web @ http://www.antigravity.c All Products Are Shipped from the USA, But You Can Order From UK Order HOT Lin All Prices are USA Priced and Do Not include any VAT, duties or any other Taxe Rendersourus

AMIGA A 4000T



A4000T SYSTEMS 25MHz-040/6MB/1GB/

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SNAP MAPS

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ck & Key is a full LightWave3D 4.0 Plug-In and runs from inside layout





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EXTRACTING COVERDISK FILES

Before you even think of putting the coventisk any where near your computer you should make sure you write protect them by movin the black tab in the top come of the disk so you can see through the hole. Doing this makes sure you cannot damage your disks is any way. There is also no reason why the coverdisks need to be written to, so even if the computer arks you to write enable the disks don't do it.

To extract the programs off the second disk you must make sure you have booted your computer with the first coverdisk, otherwise your Amiga will not be able to find the clinitaller program, and frustration will soon

To extract any single archive, simply doubleclick its icon, and follow the on screen instrutions. If you want to quickly extract the program to RAM, select the NOVICE level on the welcome screen, and press proceed once

screen, and then again on the next. The program can then be found in your RAM disk. Normally, most programs need further installing, so



hard drive will have to

stick with extraction

single programs

read the documents on how to do this. You also have the option of using a flopp disk. If you pick this option make sure you have a blank homated disk at hand, and if you on have one drive get ready for lots of dis swapping and a long wait. People will machines that only have 1Mb may have trouble extracting large files to RAM, so in this case you will need to use a floory.

Hard drive us

first disk, but you must make sure you has Commodore's Installer program in your drawer. To make sure your hard drive has th correct files in place, double-click on th SetupHD icon. This will check if you have the installer program and if not write over an do not worry as it will not write over an

existing files.

All you hard drive owners will find MultiExtract very useful. It is a separate method of extracting the



extract a number of files in one go to your disk or RAM. When you run MultiExtract you wi

presented with a number of check boxes, et representing one of the programs on the coverdisk. All you have to do is de-select the programs you do not want extracting, a then press proceed. All the selected progra can now miraculously be found in the select This is MultiExtract for all you lucky people with hard drive or lots of RAM



We let you get your hands on the latest version of MUI, the extendible, enhanceable, configurable GUI

MAGIC USER INTERFACE V3.3

Author: Stefan Stunz Workbench 2.04, hard drive

DISK 1

love it, some people hate it, but whichever type of person you may be you cannot deny that MUI programs look very attractive

and are very easy to use.

This version of the coverdisk is an unregistered version of MUI 3.3 and has had many speed improvements added to it. Most importantly, the routines that create MUI objects, these being any part of the interface buttons and so on, have been re-written in assembler which means the creation and

redrawing of the GUI is much faster than before. These speed improvements really shine through on slower machines because they benefit the most from the increased speed. There are also a number of important has fives introduced in the last few sections.

speed. There are also a number of important bug fixes introduced in the last few versions. Once you have extracted MUI from the coverdisk into RAM you need to install it onto you hard drive. If you do not already have a copy of MUI this version will only require around 1.5Mb of space, but can be reduced to about 800k if you do not install any of the documentation, extra images or demo

programs that are worth a look but are not necessary. Installation is very simple thanks to the well written Amiga installer script. You should really choose the Intermediate install level as

this will allow you to choose exactly where the MUI drawer and all the MUI files should be created. Once installed you should reboot your machine to make sure MUI is set up correctly. You will now be able to run any MUI program.



will have to put up with plain old looking program.

SHAREWARE

of the time with no restrictions, and if you then decide you like it you are obliged to send the author the shareware fee normally this is no more than ten pounds and in return the author will usually keep you supplied with the latest version of that program, along with their undying gratitude of course.

If you register you

MUI program to

want

look however you



grams reqhave MUI installed, so it's lucky we

SCOUT

Author: Andreas Gelhausen Magic User Interface

Scout is a system monitor which allows you to find out many things about the state of your computer such as libraries, windows, resident commands, tasks, interrupts, ports, memory and loads of other things. It is also possible to perform a number of operations on certain parts of

your system, close windows, and freeze tasks. MUI is not actually needed as all of Scouts functions can be accessed through the shell, but this is obviously not as simple. You can even use Scout as an AmiTCP service which allows you to access other people's machines ower a network.

MUI SCREEN MODE 1.5

Workbench 2.04

The nicest thing you can say about the original worked. This MUI version gives you the obligatory tailored MUI interface that is font sensitive option of letting you have a Harn screen mode quarter of a million colours on your Workbench

MAD HOUSE

Blankers on Macs and PCs have started to turn heads, and this all kicked off from the old flying toaster blanker that appeared on the Mac by the After Dark people years ago. Unfortunately, this has ended up with certain PC blankers requiring 20Mbs of hard drive space as they actually end up telling a complete story.

If you do not have that amount of space to spare then Madhouse could be just what you lar to Blitz Blank, and is very easy to use and set up. You should use the provided installer icon to install Madhouse, otherwise you will need to set an assign by hand so it can find its blanker modules

As standard, Madhouse comes with 12 blankers but it can accept SwazBlanker modules, so if you have this already you can extend your number of blanker programs. Of interest that plays out a full football match, or soccer match to our overseas friends.

There are plenty of options that separate MadHouse from other blankers and it comes with a good number of quality blankers - the snow, soccer and nautical are particularly novel. This is a shareware program so if you plan to keep it do not forget to register as this will insure that it will be continued to be developed in the future.

MUI is currently invaluable for people ranting to get on the



MIII sosoon made preferences, better

REGISTER MUI NOW

The version of MUI on the coverdisk is unregistered which still allows you to run all MUI programs which have many advantages over your normal Gadtool interfaces, but you will be stuck with the standard Gadtools look. The full version of Magic User Interface allows you to tailor almost every pixel of each

MUI program to your own taste, and future registration fees will normally be at a reduced amount. The prices are as follows: Registering for the full version of MUI will cost you £15/\$20

Upgrading from a previous version of MUI will cost 68/\$10. Readers using the Amiga Computing MUI 2.2 coverdisk will, unfortunately, have to pay the full registration fee because it was a special one



Please rush me my registered version of MUI 3.3 Please Deliver To: Name (Miss/Ms/Mrs/Mr)

Address				

Post Code Country...

I enclose cheque/cash for

Daytime Phone

Please allow (28 days) for delivery Please send your order form to: Paul Jewell, 7 Fairfield Av., Cardiff CF5 1BR

US/Canadian readers, please send your 807, Johnstown, NY 12095-0807 USA

LOTTERY

Lottery madness seems to have the entire nation firmly in its sweaty mitts, with people window just to have the words "it's not you" reverberating firmly round their heads.

It has also seemingly kick started every two bit programmer into writing their own lottery predictor. The last few months have seen a number of programs popping up in the Amiga Computing offices, one or two of which were very good, many of the others being dubious looking random number generators.

This lottery predictor is different. Firstly it's



not written in Amos so it multitasks correctly and uses standard looking gadgets. Before you could change your fortunes run Lottery it really needs to be installed using the provided installer script which will set up the Analyser assign, otherwise you will have to do this manually from the Shell

are plenty of statistics about previously drawn balls. You can find out the number of times each number has appeared, the frequency certain numbers have been drawn, and if low, middle or high combinations are more common

than others. When it comes to actually predicting the numbers. Lottery uses a fairly straightforward system. This consists of producing three lines of numbers, one biased to high numbers, one biased to low numbers, and the last to produce a combination of the two. You can have up to seven lines, or a syndicate mode allows you to have 100 rows, and when the balls are actually drawn you enter these into the Lottery database which will automatically check if you have won or not. The program is win-ware, so if you get four winning balls or more using it you should send the author some of the winnings to show





Current owners of SCSI interfaces who have a CD drive will probably be using the old Workbench 3.1, you will be using the Commodore CD file system. These do a perfectly good job, but there is always room This is an update to the original AmiCD

file system that many people will have This version is now faster and improves compatibility with strange DOS packets. Proper disk buffers are now available which helps CD access and loading of large files. Generally, the original code has been cleaned up and optimised to get the best out of your The supplied AmigaGuide does explain

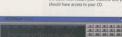
AMICDES 2.4

Author: Martin Berndt

how to install the software. You need to copy the CD0 icon to your DEVS:DOSdrivers directory, copy the AmiCDFS and WBStart-Handler files to your L directory, and finally copy over the Mount and Setpatch commands to your own C drawer. You will need to change the CDO file with

a text editor to suit your own machine's setup. Load the CDO file into your favourite text editor and change the DEVICE to your SCSI device - for Squirrel users this will be squirrelscsi.device, and owners of other SCSI cards will need to consult the documentation to find out the correct device of their

After this, adjust the UNIT number to your CD's SCSI unit number - most CD players allow you to select the SCSI ID number on the back. Now restart your machine and you should have access to your CD.



II II IN IN IN IN IN IN IN IN INCOPVIO

You even get a pretty good AudioCD player with

STARTUP CONTROL

Author Dirk Josea

Startup Control is a program that gives you more control over how your machine start up. On my machine I have a small program that detects if I am holding the right mor button, and if so will load Workbench wit

the WBStartup drawer disabled. With Startup Control you will have thi option, along with many more, implement in a much better way. To install Startu Control, copy the program to your C dire ory and insert the line C:StartupControl i your startup sequence, just after the C:Setpatch command. To do this open a shell and type ed s:startup-sequence

When you reboot your machine, if you hold down the left mouse button and one of the Alt keys, you will have the choice to disable the WBStartup, User-Startup, run scrip files open a shell window and even force a normal PAL window - if you have a monitor driver installed Startup Control works by renaming the

files, so when you reboot your machine the are renamed to what they should be. Also anyone using SysiHack must make sure this is run before Startup Control is.

SCHEDULER

Magic User Interface, Workbench 2.04 Workbench 2.04

Keeping track of important appointments or just general things that you must not forget What you need is a program so you can enter all these things and let it live in the back ground, where it can jump up and remind you that you are about to be late. Enter Scheduler, a shareware reminder program.

Scheduler is very straightforward to use You can click on a date in the calendar and add new appointments which can be made daily, weekly, monthly or even yearly, and you can ask for a reminder at a specific time of the day. You can then iconify the program and it will happily sit back and wait for your next appointment

DISKSOUEEZE

Author: Dirk Vael Workbench 2.04, Lzx required

For anyone looking for a better disk packer than DMS, this is your answer. Disksqueeze is an Lzx-based disk packer that is similar to DMS but much more efficient. To use it you must already have the Lzx packer which allows Disksqueeze to use its very efficient packing algorithms.

Once you have installed the program its interface is just a simple set of requesters that guide you through the packing or unpacking process. It supports high density disks, including Mac and PC formats - a unique feature for a disk packer - as well as being able to handle DMS archives, so most people should



Never miss one of those all important

UCBACKUP

Author: Jamie Kennea Workbench 2.04

All the lazy people stand up. If you own a hard drive I het you haven't bothered to back it up in years, even though you know if it grashes you will never be able to get your files back. Well. UCBackup will be a little life

Firstly, there is the absolute minimum of fuss involved. You drop it into you WBStartup drawer double-click on it, then use exchange to pop up its interface and select what directories you want it to check From then on every week, UCBackup will scan these disertories and Lha all the new files onto a destination of your choice.

DIALER

Author: Jain Hibbeft Workbench 2 04

This is a tiny little device that was discovered when doing our Internet virgin article, and works with SLIP or any other software that accesses the serial port.

Dialer provides an automatic dial and logon script for all types of network software that uses the serial device but does not know about modems.

You will need to copy the dialer.device to your DEVS drawer and the dialer0.config needs to be edited to your own needs and copied to the Envarc drawer. Checker out the Internet virgin feature on page 53 for more details on how to use it



CBE Author: Anthony Moringello

UPDATE LIBS

Author: Dan Rhodes

You may or may not know that the Amiga actually has up to 256 separate clipboards. The dipboard is where any temporary data is stored, and usually when you cut or copy something it is stored to the first clipboard. This allows you to copy from Brilliance and paste the graphic into Final Writer,

Instead of letting all these clipboards go to waste, CBE gives you a clipboard history by buffering all the past cuts and copy into a list. From this you can choose which one to paste with and if they should be cleared

With Workbench 3, users can view what the contents of each clip board is, therefore giving you a better idea of what you will be discarding or pasting next.



erd Enhancer lets you visually keep track of all your current cuts and cop

You know the situation. You have a new program with loads of libraries, most of which you already have, but how do you easily tell if the these libraries are newer or older than the ones you already have.

Update libs is the remedy for you ills It is a Shell-based program so copy it into your C directory, and to run it just supply it

with the directory containing the mystery libraries and away it will go. For each library it will ask you whether it should install it or not

Author: Narkus Albrecht

FX is a small program that allows you to add sound effects to accompany a number of standard system events. Usually, these sort of programs just watch for disks being inserted

FX can watch all manner of operating system calls, from windows and screens being opened and closed to files being deleted and

The program requires Workbench 3 as it uses Datatypes to load the samples, but this means you will be able to use PC Wave samples or any other sample Datatypes you have. An install script is provided so installation is simple, and as long as you have a selection of samples, you can get going straight away.



WBSTARTUP+ Author: John Hughes This is another one of those little make your

DISCLAIMER

Amiga a nicer place to live-type of programs. WBStartup+ gives you a handy preference program to handle how and which programs are run from the WBStartup drawer, It does this by creating two new drawers in the WBStartup and adding a new program to handle launching all your chosen programs. This is all set up by the usual installer script and is very straightforward. When Workbench first appears, if you hold

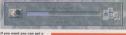
down Ctrl you can modify the preferences before anything is run.



left alt interactively asks you if it should run a program or not, and the left shift will disable all the

programs. You might be interested to know that this is the first program I have seen to use a new library called launcher. library which is written by Amiga Technologies

in your Prefs drawer, but at no less. They must be up to something after all.



em 7.5-style load bar. You can even choose the background pattern

least its a handy one

CRSNAP Author: C Hahn

Workbench 2.04

This is a tiny screen grabbing commodity that will correctly handle all AGA screen modes. Double-click the icon and press both Amiga keys and F10 to grab the current screen. You can then adjust the destination directory and the grab hot key from the icon's tool types.

FAULTY DISKS

If you should find your Amiga Computing CoverDisk damaged or faulty, please return it to:

TIB Plc, TIB House, 11 Edward Street, Bradford, W. Yorks RD4 7RH

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And now for some technical specifications

the left pictures give you an imagination of the internal con struction of the infinitiv™ tower system. The red marks an the back area of the tower. Further, you can see an Top Case™, mounted on the towers' top, which explains th expandability of our solution. Each Top-Case™ expands you infinitivTM tower for an 5.25"/ 3.5" drive bay, ready to us and easy to assemble. Additional drives such as CD-ROMs harddisks, streamer tapedrives etc. will snap in easiely b using our sophisticated "click and snap" system.

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tAM card, expandable up to 8MB, ncl. clock and math co-pro socket with standard 25/2 SIMM modules	Keyboard case for AMIGA™ 1200, incl. Interface, spiral cable and flexcable for external connection of the original internal keyboard
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PC-keyboard interface for the AMIGA™ 1200, nstallation through solderfree flexcable£ 42	VGA-adapter for AMIGA™ 1200/4000, from 23 pole on 15 pole multi sync/VGA
AMIGA™ 1200 Interface/keyboard extension, installation through solderfree flexcable, both interaces are connected through an 5-pole pluga	POWERSTATION external powersupply, for the AMIGA™ 1200 (i.e. ASO0, A600, through standard plug), 23 amperes, featuring on/offswitch and additional connectors for 1 x 3,5° and 3 x 5,25° devices !
extable for ROM V 1.3, 2.0x & 3.0 or 3.1 (pair)	A 1200 internal original disk drive, suitable for the A1200, 880 kb, incl. mounting material
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micronik' infinitiv - tower	
nfinitiv ²⁵¹ A 1200 tower,	16
nfinitiv [™] PC-tower,	16
nfinitiv™ A 1200 Z tower case, nd. ZORRO-II™ bus board, PC Keyboard	25
A1200 infinitiv TH tower, (AMIGA-keyb.&interface)£	19
A1200 Z MAGIC infinitiv TM tower, leaturing 5 ZORRO TM II slots and 3 PC-ISA slots, 170 MB hdd, magic software-package	68
BUS 1200 Z1, AMIGATH 1200 bus board, leaturing 5 ZORROTHI slots and 3 PC-ISA slots	16
BUS 1200 ZZ, AMIGA™ 1200 bus board, featuring 5 ZORRO™II slots, 3 PC-ISA and an option sideo-slot, additional this version contains even an PS/2 - SIMM-socket	19
A4000 infinitiv TM tower, featuring 7 ZORRO TM II slots, 3 PC-ISA and an video slot.	27

We are present at THE WORLD OF AMIGA in London / 13th to 14th April we accept the following payment:





All trademarks acknowledged.



Wordworth revolution



N Why restrict yourself to plain old letters? If you make full use of orth anything is possible

ive revisions on and Wordworth has come a long way and grown up a lot. The last few versions have taken full advantage of the increased number of users with higher specification machines who expect programs to take full advantage of increased storage space and processor power. This has now led to full 24-bit picture support, free form text boxes and tables, scalable fonts support for Compugraphic, Post Script and True type fonts, and, of course, Digita's Font and text effects

The extended font effects give you much more flexibility over how fonts will appear. You have complete control over the width oblique, superscript and subscript levels for all the fonts, along with being able to make them small caps and add strike through and double underline

The only feature that was not fully implemented in the beta I looked at was the Wizards ARexx function. Wizards are ARexx scripts that have been written to help automate standard processes that you may use Wordworth for, or as tutorials that guideyou through complex processes. Currently, you get five scripts, one of

which is a mail merge tutorial, while the others help you quickly create faxes, memos, and invoices, and even a basic Web page creator is supplied.

Wizards allow you to quickly create documents by entering details into text requesters. Once everything has been entered the Wizard will automatically create the document ready to be printed. If you have some programming knowledge you could alter the existing Wizards as they are just ARexx scripts. Therefore, you could create completely new Wizards or alter the look of the documents the current Wizards create. A cheque printing Wizard has already appeared on Aminet, so I would guess there will be more in the future

I was surprised that Wordworth does not support the Amiga's Datatypes - as Datastore does I was expecting Wordworth to as well. This is not such a disadvantage as there are a good number of supported formats, With the usual IFF support, including Ham and 24-bit images. Wordworth can import GIF, PCX, Tiff and Img format images, and all the major scalable image formats are covered - CGM, EPS and GEM - with EPS being the most important format of the

MPORTING As Datatypes currently only work in 8-bits

there is a reason for using your own import filters, but support of Datatypes on top would allow you to import other formats not supported by Digita's own import filters, such as Jpeg - as all my pictures are Jpegs this would be a helpful addition.

Some people may feel that the recommended specification is a little high, but an A1200 with a RAM expansion or accelerator can easily handle complex documents, and if you want the sort of power that Wordworth provides then you need the hardware to match. For people with a more restricted setup, a 'lite' version of Wordworth 5 will be released

Having used this version of Wordworth for a while I think it is a worthwhile investment for owners of earlier versions. The style sheets help greatly in document formatting. and the extended graphics support improves the end quality of your documents. There are still differences between Wordworth and Final Writer, primarily the lack of sections and the ability to rotate graphics - both of

After an in-depth preview, Neil Mohr gets a chance to look at the finished article

Jargon box

Ham - Hold and Modify on Amion

Postscript - a page description



quicker than doing everything by hand



which I think would be helpful additions to Wordworth. The only other difference is the grammar checker recently added to Final Writer A

Version five of Wordworth is truly excellent. All the speed problems of the earlier versions have been addressed and the program itself conforms very well to the Amiga-style guides. In fact. Wordworth has so many features, and apart from a few minor improvements, I have a hard time seeing where Digita can take it next. /2.07

Bottom REQUIREMEN



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SCORES Ease of use Implementation Value For Money 93% o what do we have here? Two graphics tablets one hig the other minuscule (and not really a graphics tablet at all). Let's start small

and work our way up. Our mini tablet is a device that has seen service on many a modern laptop and is called the Alps GlidePoint (made by the electronics arm of famous car stereo manufacturer Aloine. Perhaps you can get a sticker to go across the top of your monitor that shows you have GlidePoint tool). The idea is that it replaces a mouse or trackball setup and allows you to use your computer just by moving your finger around. The GlidePoint's operating area is only about an inch by two, but the manufacturers reckon they have a resolution of some 4900 dots crammed into that tiny space.

This little beastie plugs into your valuable serial port to work, so owners of multi-serial cards can sigh with satisfaction that they can at last use one of those extra serial ports, while owners of A1200s will have to tear their hair out when they want to use a modem, or the other tablet in this review.

DRIVING

There is accompanying driver software included on disk which can sit in your WBStartup drawer, ready to run when you boot. In my experience, using serial mice on an Amiga can cause frustrations when you need to boot from a disk other than your normal one. I. certainly, always left my normal mouse plugged in, just in case. This, of course, limits the usefulness of these devices and along with the serial port use, must limit the appeal of the product for most people.

However, all this would be fine if the product was great to use, but unfortunately it isn't I found the GlidePoint to be awkward in use. especially for moving windows around. You couldn't use it for drawing any more than you could use one of those lightpens that were popular about four years ago. In short, the and mighty

Take two tablets into the showers? Not Ben Vost, he would rather plug them into his Amiga

box

GlidePoint is really only suitable for those wellheeled Amiza owners who have an extra serial port or two going unused, and so little desk space that they have to use it. Anyone else would be recommended to look at getting a trackball or three-button mouse.

Our second tablet, on the other hand, is a much better affair. You still need to take up that valuable serial port, but at least with this product you'll probably only be using it occasionally.

Tablets of this kind have been available before, but this is the first I am aware of that actually comes with template editing software to allow you to set up areas of the tablet as buttons, rather than having to use the menus or

keyboard shortcuts. The tablet also come equipped with both stylus and four-butte puck, which is unusual, and Power haw supplied ready-made templates for some of the most popular graphics parkages on the Amiga. DPaints IV and V. and Personal Pain 6.4. The tablet itself is sturdily made and a you can see by the photograph, the puck ergonomically designed.

The Power tablet performs well in drawing operations, although for best use a table needs to be pressure sensitive and the stylus in a bit top heavy due to the trailing wire, bu other than these minor qualms, I would have no hesitation recommending this tablet to prospective buyer.

morros

PowerTab Power Computing

Fase of use Implementation Value For Money Overall

GlidePoint

Ease of use Implementation Value For Money Overall

The PowerTemplate software that comes with the PowerTab is almost worth the asking price on its own. It allows the user to create templates for their favourite programs so that all functions (or at least as many as possible) are available directly from the tablet, without having to go through menus or requesters. The template software can replace keyboard, qualifier and ARexx commands with buttons on the tablet that take some getting used to, but are much faster once acclimatised.

EMPLATE FOR A

However, all is not perfect with PowerTemplate. NTSC users might have a problem displaying the whole screen, and non-AGA, non-graphics cards using Amiga owners won't be able to run the

GENERATION software at all. It's also slow and clunky to use. although looks very nice. The worst problem, though is the fact that although the PowerTab software will run through any serial port, PowerTemplate will only use the internal serial port found on every Amiga The software is also a bit buggy and prone to

crashing, so frequent saves must be made in order to avoid losing work. But all that considered, PowerTemplate is a nice piece of software which I can only hope will improve over time. I'm currently making a template for LightWave's Modeler that will save me an enormous amount of time looking through Modeler's menus, and that alone makes up for all of PowerTemplate's faults for me.



A template for Modeler, a real time saver to people who can't remember keyboard shortcuts

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and control. WCS provides a wealth of solutions, whether you are creating for video, print media, commercial or scientific applications, or just for fun.
There are too many features to list, but this program is regarded by

CeBit and die.

Our erstwhile editor reports from Europe's largest computer show

urder. It's a tribute to the estimation of the CDO, 200, Depose heat wisted CeBR this year that they managed coly are fully booked for next year's show, and possibly the year after. Already most belies in the notes are taking reservations for Expo 2000 which will take place in Hannover with a pre-dicted 40,000,000 visitors over the course of a year.

So what hope did I have, only trying to make my way here two weeks before the show? The answer is none. Unless, that is, I wanted to spend 650DM a night for a hotel room. How much is 650DM? Ool, only about 6252 at the current exchange rate. And that's per night. It does include breaksts but no baths in asses milk or slawes fanning me and peeling grapes or anothion like hat here.

Anyway, here's a lip for last minute visitors. Oc. CREI. When you arrise it Hamoner airport, visit the Hamoner interest harmoner airport, which the Hamoner hotel Service — you should be the forf at easy length — and quality the form of the form of the house. They'll find you' a room, either in a paintee, lend the neads, or a hotel conference room (which is where I stayled). The cost shouldn't be more than 1000H a right, unless you rest an apartment, a right, unless you rest an apartment, on which case you should not be for about 1500M as how this, you want to know all about this you want to know all about this, you want to know all about the store.

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ENORMOUS

TIS MASSIVEI It really is it took me at least half an hour of walking to even reach the accordange to the control walking to the control walking to even reach the accordange accordange accordange to the control was to the control w

look after). So eventually, like Amundesto to the front's Pole, I restricted the Excorn stand, it was packed, of this Company on River and of basiness like silence and space, the Excorn of the Standard Standard

As we've explained to death already, the pack comes ready to run when you buy it, and with just a phone call to IBM's toll free number you are ready to roll. The modern supplied with the pack will be a 14.4k model, but it will be up to individual distributors in each country to decide which one will be bundled with the machine.

Homover 14. -20. 3. 1996

However, the best thing on the Amiga Fechnologies stand was, without doubt, the first new Amiga since the A4000T burst on the scene back in '93. The machine (odemaned Walkier at the moment) is a bizare design as you will see from the photos on these pages, bit it really books the part and says that the Amiga is a different machine. Even with all these trendy PCs with black cases or integral speakers coming out of their sides, the Walkier still stands out from the sides, the Walkier still stands out from the

The Walker will come with a largish IDE hard drive (SCSI is apparently too expensive), 5 or 6Mb RAM (4Mb Fast, 1 or 2Mb Chip) –

ILLAGE TRONIC

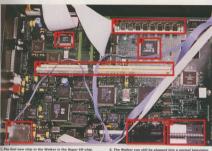


Village Tronic's large stand was jumping with interested Amiga users all eager for a look at the new Picasso II Plus or Picasso 4. If they were disappointed with their non-appearance, they soon cheered up when they saw the new yersion of

update is freshy available on the Main Concept Weshbea at White Jewas Accept commission than 100 Midler 600 coal for the ADOO, and the new line of software from PADOA. The DAB board is appoint in several wayers firstly, it has an element por bullet, it also has a FOT XSST it controller gives considered to the property of the property of the property of any of the property of the property of the property of importantly, the ability to an at a time 660Hz, cometting no happy that a bound for pour machines will be out by the end of the property of









hold different-sized SIMMs up to 128Mb of FastRAM
3. Another new chip, Tony, will replace many of the functions of some of the existing custom chip set
4. The Walker's expansion slot will hold a backplane that through this RF modulator
6. This hard-to-see PCMCIA slot might not make it to the
final version of the Walker
7. The new machine will have a 1Mb Kickstart ROM shown

7. The new machine will have a 1Mb Kickstart ROM shown in a two-chip format here Although this motherboard is still a prototype, it is already an amazingly clear's board. The final version might be smaller yet, allowing for more room for expansion







shots of the inside of Amiga Technologies new baby - The Walker

the FastRAM expandable to 128Mb via two SIMM sockets that will accept different-sized_SIMMs, the Chip RAM expandable to 2Mb—and a quad-speed CD-ROM drive. It will cost between 1000 and 1600DM (E500 - E800) when it comes out for the Christmas '96 market and will be based around an EC030 chip numine at 40MHz no FPU. no MMU.

The case design is a novel one with a single to until upurpose so that on the mother-based to accommodate a badplane which could have accommodate a badplane which could have lower lower lower lower lower lower some lower lower lower lower lower whatever. Depending on what size badpeds or whatever. Depending on what size badped the user fits, the case will have to be extended the user fits, the case will have to be extended purposeds with spacers, which may result in the machine becoming a mini-tower system rather. than a hoover look dile, as has been superel sky German with at the show.

Another change for this machine is the new Super(I) chip which doesn't yet have a groovy name like the rest of the Amiga's chipset. This chip will be responsible for high-speed, bi-directional serial and parallel ports and has the bandwidth to provide several of them, or related types of I/O like MIDI. The Walker will related types of I/O like MIDI. The Walker will an or the series of I/O like MIDI. The Walker will related types of I/O like MIDI. The Walker will r come with the new Workbench 3.2 and will have a 1Mb ROM to fit some of the proposed expansions to the OS. The design shown in the photos on these

pages is only a prototype and Amiga Technologies may well change the case's colour and make the motherboard smaller. There is some guestion whether the Walker will ship with a floppy drive at the moment, the reasoning being that CD-ROM helps to prevent casual piracy, and even some wild rumours you will need floppy drives - one for old standard Amiga disks (low density ones, that is) and one for a new high density format that will use a standard PC floppy disk drive. Heinz Wroebel assures me that the machine will ship with a floppy drive and that it will be a PC high density drive, but he fears that compatibility with the old Amiga high density format will be lost.

oid Amiga rigin derising from twill be lost. The machine will also be able to boot from the internal CD-ROM, opening the way for games manufacturers to merge their CD32 and Walker development. Gilles Bourdin reckons it might also mean that games houses that have left the Amiga might return now that they are



Barry Thurston and Dennis Phillips
looking pleased, despite the fact that there
wasn't a single Amiga on their stand

assured of a standard CD-based machine to work with.

such volume. The state of the s

KEVISION

Workberch 3.2 will be the last resision made for 690.00 machines according to Bourdin, future resisions will only take place for the resisions will only take place for the variety of the place for t

MICROVITEC

Microvites were one of the other few stands showing Amiga-based and other departments of the other few stands showing Amiga-based as seal represented on the current 1438, Both the 15 and 17 monitors and a seal represented on the current 1438, Both the 15 and 17 monitors and appearance of the 1438. Both monitors will are down low enough for standard Amiga modes, but have the bandwidth to display 384ths screen as well so finally freewast bill are mill-in-ordation for Amiga content with a million of the control for Amiga content with the analysis of the control for Amiga content with the analysis of the control for Amiga content with the analysis of the control for Amiga content with the analysis of the control for Amiga Control for the Amig

CEBIT



CeBit is one of the world's largest computer shows. The only one bigger is perhaps Comdex in America. A ticket for a single day costs 50DM (£25 or the door and a ticket for all

about \$590 on the door and a ticker for all seven days is double that. The catalogue on its own costs \$60M and weighs in at about 5-61bs. You can throw away all but a couple of ounces of that, though, if you have a suitable machine equipped with a CD-ROM because you get one with all the information contained in the book with the catalogue.

CeBit takes place over seven days in 26 halls and has a total of 6,507 companies from 66 different countries exhibiting in a total of 465,847 square metres of display

The showground is so large that there are bus services operating to carry people between halls and there is parking for over 50,000 cars at any one time.

There are hundreds of toilets, snack bars and restaurants all over the show-ground, so finding people can be a night-mare. Fortunately for me, the people I wanted to meet were all dustered around the few Amiga-related stands, so it wasn't too much of a problem.

Technologies hope to have something to show this time next year. However, your loyal reporter thinks that the new machine is far from the perfect solution. When all's said and done, it is still an A1200, admittedly faster and with better expansion possibities, but with no real improvement on current (and by current, I really mean few ever old) technology.

The backplane fish for adding Zono dots is a god one in principle, but it means adding a cost for the user who wants to upgrade his machine. First he has to buy the backplane, and how much will that cost? Hen he has the buy his expansion. If he decides to have he saw the capand his machine, hell have to get find of his original backplane and how a larger one dropping backplane and buy a larger one. We have the same remarks the same should be the same should be the same should be a same should b

REMEET

ESENTERIS in would have been in my humble opinion, it would have been in my humble opinion with a work of the machine for two Zomo II/III casts and an in infective of solt in addition, the machine should have had the same CPU slot as an A3000, 44000 and so on so that the companies of the compan



() lomega's new baby giants, the Jaz and Ditto drives. We hope to review them soon



prove a major competitor for the Jaz drive

In this global market,

companies really ought to pay more attention to the

e might have in other

connotations their

of them. After all, it's not as though there are thousands of existing A1200 or big box Arniga owners out there who are suddenly going to drop everything they own and switch to a

drop everything they own and switch to a Walker.

Perhaps, rather than simply rearranging

everything in the case design and adding this come and but the case of the cas

IT FOR AN AMIGA?

All in all the Cellet show descent mally and the Anging market. These is the converge servine, where Anging market. These is the converge servine, who can people driving vary genus my descent people driving vary genus my descent people driving vary genus my descent people from even the sale genue of literio on them, and this small, different, company doesn't mally the is. Some companies valve over materials by their absence, however, included Materichylines who, you would have the literious of the sale from the literious and the literious who will be a free from the literious in a standard of the code of a similar And settle present you were sufficient to the first that it is freely beload. And Phene is were sumplement out to the Material Section of the Presence of the Pr

Arriga.

Ben so, Haage & partners were on Motorola's stand showing off Storm C/4-. An ANS complet art C package with full support for Motorola's 060 and a Cull editor? Sounds too good to be true? Well, unless you speak German, it is. Translation is going ahead now for the manual, but don't expect it to surface for a couple of months, at least, in its English form.

Finally, I'm not sure if I have correctly conseyed just how it feels to attend Cellit, so I'll I'ty again. Unless you have a fortune to spend and reservations made, Cellit is like that footune of ispanies television shower. Findurance: I really do feel like five been put through the mill. Anyway, that's the news from Cellit '95 (fr. mol' it is soak my aching feet for a few hours.

new bus, Amiga Technologies should have done what they have always said they are doing and build on the strengths of the Amiga. Surely some form of video expansion like a built-in genlock, or a sound sampler, would have been of more immediate benefit to new users and build on the Amiga's much-tumpe.

ted multimedia superiority.

A built-in sound sampler would also mean that the Amiga could get some form of Internet phone access, another string in the Amiga's bow.

Then the surfer pack could really office something new. Just imagine the scarce advertising: International calls at a local rate—they're yours with the Amigaf Still, the machine! saw was only a prototype and there is plenty of time for changes before its

ENOUGH AMIGA, WHAT ABOUT

In fact the new Amiga launch was probably the most exciting event at this year's Cellit, even though it probably interested less than one per cent of the visitors to the show. Purveyors of wares for other platforms were overheard

visitors I spoke to also complained about a dearth of innovative products. Still, I guess the new Amiga could be lumped in that category too.





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here have been a lot of extensions to the Amos language in recent years, and seemingly the development of such additions to the language has not abated even though most commercial development on the Amiga has taken a break to see what is going to happen next. If anything, development of add-ons for Amos has increased Software ceased to support the Amiga. OS Devkit for Amos Pro. written by Brice Fromentin, is a fine addition to these extensions, allowing you to use all the standard Amiga libraries, like asl library. exec.library, gadtools.library.intuition.library. graphics.library etc.

NSTALLER STALLS

The system requires you to have Amos Pro 2.0 and above (it says 1.0+ but you can't use the compiler with anything below 2.0, can you?), Amiga OS 2.0 and above, and anything above a 68000 will do, so 060 drivers should wat

The program is a mere snip to install as it has an install program on the disks, but this has an install program on the disks, but this does suffer from a slight problem in that department, however, because it seems to look for the APSystem directory under something called AmosPro_System. You could, I suppose, assign that name to APSystem, but I found the best way to install it was to copy the libs into APSystem and unpack all the other L21 files into a convenient directory like AmosPro.

Once the files are copied, you have to start Amos Pro and use the Set interpreter command to point Amos to the lib file for the extension. That done, everything is in order.

The documentation on the disk is in English as well as French, but M. Fromentin is obviously not as fluent with the Queen's wossname as he perhaps thinks he is. Things



Phil South reviews the latest extension for Amos, OS Devkit for **Amos Pro**

like "for logical reason an 'Amos lock' send AmosPro to front" and "If you need V39 functions, test OS version before, this allow me to obtain faster command than AmosPro itself

Little sacrifices." sound list me writing my column after anjieft out on the town. The docs are somewhat fragmented in parts, and although they are on the disk as AmigaGuide documents (I hate on-disk documentation, they will help you make sense of the procedures for making your own O-Segal Amiga processing the installation and presentation of all the program elements could be cleaned up program elements could be cleaned up will hopefully be solved now the program will have the country of the country of the program elements and the program e

for all the documentation would be a boon as would proper install scripts which would prevent any of the problems I encountered when loading the program the first time. I killed my Anos Pro by stopping the default configuration from being able to load necessitating a complete re-install of Anos Pro – something which took time and effort and which I'd have preferred not to have to do.

That being said, OS Devkit is a splendid extension, but one that would definitely benefit from a better organised install procedure and properly translated documentation. Despite all that I give it an unreserved thumbs up for power, if not ease of use.

OSSING AROUND

To make OS-legal Intuition-like programs you merely have to follow the new OS Devkit command structure. For example, to open a screen in Intuition, all you have to do is:

_scr Def Body 0,0,320,128,5

which means open a screen which starts at 0,0 with a width of 320 and a height of 128 pixels and a colour depth of 5.

of 5.

To take another example, if you wanted to set the body characteristics of a gadget using GadTools, you would use the following:

_ggad Def Body X,Y,W,H

where X,Y is the location of the top/left corner, and W,H is the width and height. To refresh the contents of a window or requester using GadTools, all you would need to do is:

_gt Refresh Wnd WWD,REQ

where WND and REQ are the pointer of the window or requester in question. The AmigaGuide documents on the

disk describe all the functions and how to use them, although requires a lot of experimentation (or a neisting knowledge of how these things, work) to make things zip along quickly. If you have a passing knowledge of intuition then this will be easy. If you've never done this kind of thing before then a read of the demonstration Amos programs and a knowledge of schoolsboy French will stand you grams and a knowledge of schoolsboy French will stand you

One thing which did ink me a little bit was the fact that only one of the guide files with the command structures in had an icon, meaning that the only way to get them all working from a mouse click was to either add an icon for each file or click once on AmigaGuide, then hold down shift and click on the guide file. (You have to Show All Files in the menus before you can even see them to

click on.

By the way: one technical thing which cropped up during
the creation of the software was a clash between the
Amiga OS Wide function and the Amiso Pro loader. Birch has
mended this by adding a PROC called _REHAMEAmo,
which, if added at the front of an Amos Pro program,
subtly after the names of the programs in operation and
prevent an erroneous "out of memory" message.

Bottom line





PRODUCT DETAILS Product OS Devkit Amos Pro

70%

70%

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Tel	01908 26146
Sc	ORES

Ease of use	
Implementation	
Value For Money	
Overall	

ohn Pasternak, so the blurb tells us. has been working in movies for over 20 years now, as director, actor and special effects guy although I couldn't find any reference to him in the Internet movie database) He's presenting a series of video tutorials that make a nice complement to our video special last month as they all deal using items that are freely available in any town. The first in the series is called Android and deals with a single scene reminiscent of a certain James Cameron film where the haddie has to repair his arm and eve after

First of all you are shown the scene in its entirely, followed by a detailed description of how each effect was achieved. This starts with realistic spuring blood and goes on to opening the arm up for mechanical surgery. Each step is covered in very good detail, listing all the materials you will need to get to achieve the effects, and where you are most likely to get them from.

MAJOR REPAIRS

being in a set of scrapes.

I found it very interesting to see the complete process involved in creating a latex mask which was used as the basis for an effect where the android pulls its eveball out to repair it (this scene on the video was rather spoilt by the fact that you can see three hands in shot, unless of course, the android was better equipped than I thought). The process is a lot more involved than I had previously presumed. It starts with your actor's face getting fitted for a piece of cardboard, which is then placed to fit the face snugly. The actor is then given a breathing tube and dentists' impression gunk is spread all over. Plaster of Paris is spread over the gunk to give it added strength and once this is dry the

whole shebang is removed. Har's just the first step though. Next the mould of the face is filled with plaster of pair again and left to dry for a few the pair again and left to dry for a few for mould and placed on a board. Next it is timmed of any remaining flash and waxed. Once this has been done, there are a few intermediate steps to tackle, but the next place for the control of the place is to get the result is a mould you can pour a latex.



What's the **connection** with the Amiga? Read on as **Frank Nord** finds out

rubber mix into, which, once set, will be your mask. This can then be painted using seryic paint to make it look a bit more life-lifes. Sure, lit int a yamimatoric master-piece, but it is something you can do at home without having to spend a fortune. This is the whole basis for the stonds on these upps and it is one of the works will be a fortune to the service of the service o

One point about the video that was quite tiresome though. It may say that the

"Each step is covered in very good detail, listing all the materials you will need to get to achieve the effects, and where you are most likely to get them from"



tutorial is over an hour long on the box, but in actual fact quite a large proportion of that hour is taken up with timewasting shots which are unnecessary. It's unfortunate that you cannot even fast forward through these as it means that you might miss some of the voiceover.

JOHN PASTESNACES MOVIE MAKER AS a espe rouse

MOVIE MAKER

miss some of the voiceover.

A special effects video?

As a whole, this wifes is a green idea, especially for you building him males approachly for you building him males reportedly for you building him males reasoned by our feature last mouth it grows wides a very experience, the cities of the tape really needs to be lightened as there are large gaps between the normal variety and the super-really needs to be lightened as there are large gaps between the normal variety which don't advance your undestanding of the subject and ere not extending the pleasing invally, this topic not suitable for children owing to the noture of both the type of special effects and the materials used to creat them.

THAT'S THE CONNECTION?

Well you might ask. The gimmick with this set of sideos is the fact that you'll also be able to buy them on CD. No, it won't gist the an Mpag conversion of the video data, a will be a mix-ture of CDUL animation combined with CD qualify sound and still pictures to present the same information, but in an Amagin-family way. The CD is planned to cast where cas much as the video, but then again, you hapefully won't have to put up with the long gaps where mother happens and the combined happens.

line UCT DETAILS

PRODUCT DETAILS Movie Maker Volume 1 – Android

Price: Video £14.99 CD-ROM £29.99 01793 514188

Scores

Overall

75%

The 3 D building block

Paul Austin casts a quizzical eye over the all new **Modeler** and also explores the LightWave alternatives

I sponised, this month IT be continuing, the guided tour of heeviek's latest inamation of their ment of their ming. To design and astmalion system. This time it's Modele's tam to a not over, but I also be exploring lightNave on the Amgas's and final. However, before importing the opposition's approach, it's time for a close foot at the straight man in the lightNave double a date of the house intri-

Modeler is without doubt the poor relation in the LightWave partnership in the rush to match the exploits of Ron Thornton and friends. The temptation is to dive straight into Layout and set about throwing things around the screen in the vain hope that by some miracle you'll stumble across a masterpiece. Unfortunately, that just ain't the way things happen.

SIMILARITIES

As you can see, the all new Modeler 4.0 isn't exactly a million miles away from its predecessor. In fact, you have to look pretty close before you can spot any real changes. All the huttons and continue reports in placet if child.

positions, but there is one very major, invisible update which many a die had mod eller hack has been dreaming of since the beginning. The update in question is the long availed addition of multi-freed undo and red in the past you were limited to undoing on the last edit, but now you can go you had into the design history of your creations. Are thanks to red, you're also free to make and forth through the changes you've made. In short the benefits were inverse not less in the time the properties are inverse not less in the time.

and forth through the changes you've made.

In short, the benefits are immense, not leas
of which is the ability to experiment freel
without having to no through the devices.



The traditional solid view – either moving or static on a standard Amiga display



At first glance not a lot of difference from the solid view. However, look close and you'll spot internal surfaces and a layout that doesn' obscure parts of the model that are hidden in solid proview.

CROSS COMPATIBILITY

NewTek have made a lot of noise about ensuring LightWave will have a standard interface and functionalty across the board, whether it be Amiga, PC, SGI or

The only real difference on an operational level is the inability to import and export models between Modeler and Layout. As mentioned, the vast majority of PCs don't multitask, therefore it's not an option - even under Windows 95. This inevitably means an awful lot of

saving, quitting and reloading when making adjustments to the design and surface properties of your creations. However, given sufficient RAM, it is possible to load both Layout and Modeler, make your changes in one, save them out to disk, hop over to the other

program, and load in the saved changes. On the PC plus side, it must be said that actual screen update on the PC version is superior - given a decent 64-bit graphics card. When compared to the implementation of the higher resolution displays of the Picasso II,

favoured on the Amiga version, the PC wins hands down. However, it must be said that the Picasso update dramatically since the initial beta release.

Aside from the resolution, the PC variant also offers of different approach to render previews. Unlike the Amiga, which uses multitasking to provide a full frame preview in either Ham, Ham8, or Picasso II, the PC opts for a small quarter-screen display within a pop-up requester in addition to a full screen alternative

saving countless revisions of the same design. Yet another simple but nevertheless essential change is the redesign of the preview window. In the past, Modeler boasted a rather over-indulgent moving solid preview option. practice it simply wasted CPU time, served no practical purpose, and most importantly, soon became very imitating.

PREVIEWS

Fortunately, NewTek have finally done the decent thing and added a usable, static, solid preview selection to the existing options, thereby providing a much more informative range of display options. In 3.5 the selection varied between none, static, and moving - in either wireframe or solid. Now that collection has expanded with none, wireframe, Frontface and solid - either moving or otherwise. As you'd expect the wireframe option works as before. showing both the internal polygon structure and the points.

Next up comes the new Frontface option which, as the name suggests, shows only the external polygons of the object. However, as you to see external surfaces within the object that at present may be obscured from the existing viewpoint.

Lastly comes the static solid view which, not surprisingly, works just like Frontface, but delivers a true solid 3D image of the model. It must be said this is slightly slower to update than the others, but in my opinion this is a small

"Fortunately, NewTel have finally done the decent thing and added a usable static solid existing options"



price to pay for the added clarity a solid - and stable - true 3D preview can provide. Unfortunately for PC fans, combined moving and static display options are only available to the Amiga version. Because PCs can't multitask, a window in window animated

display simply isn't an option. Like their predecessor, all the display options offer the same orientation control. with wireframe still requiring a combination of the Alt key and mouse movement in order to rotate the object along any axis to generate the optimum view point.

The only other obvious change to Modeler is the arrival of a brand new button in the Tools department. Basically, this is Modeler's very own plug-ins option which awaits under the new Tools/custom button. At first glance you could easily make the

mistake that the Custom selection is just





another incarnation of ARexx macros. However, there is a very distinct difference between the two. Basically, the Custom options are standalone programs which, just like Layout plug-ins, allow third-party developdirectly into the Modeler interface

At present, the package only ships with five custom programs - the most notable. Powerview, provides a solid quick render of the preview display. Unfortunately, the option is limited to a one-off full frame preview which has to be closed down before you can continue modelling, although you can still rotate the preview by dragging the mouse. Although limited at present, it does point

the way to some interesting possibilities when it comes to automated modelling. It remains to be seen if Modeler custom programs get the same level of attention as their Layout plug-in counterparts - personally I doubt it...



It's only real saving grace is the ability to make point

Orientation Logo (XY) Hap (XZ) Side (ZY) Vehicle	Previe None Hire Frontfa	V Po		
Unit System	CASSO:1024x7	Grid Snap	Chan	ge Co
Metric English	1 5	None Standard		
Engitsh	1 2 5	Fixed		

PC APPEAL

Ever since the news that LightWave was crossing the great PC divide, many have been predicting that the end is nigh, and the Amiga is no more. This is predictable stuff, especially with a close inspection of clock speeck. However, there's more involved in 3D modelling than its from speed.

usual pair win lyteloc. On the confidence of the Code and the code and

Obviously, this throws the basic PC-goes-foster equation into turnol. Do you spend a farge amount of hard earned wongs on a PC, or simply upgrade your existing A400.03 or -040 with on 600 processory with the uncertain state of Amiga development and the out-landsh hype surrounding the PC, it's tempting to sund the extre cash. However, life, and especially PCs, are never that straightforward.

As mentioned earlier, PCs in general are by no means under-powered machines. However, even with their impressive spec, they nevertheless display some serious limitations. For example, unless the PC in question boasts a large amount of RAM it will inevitably begin paging to disk as available RAM is depleted – resensing a set amount of virtual memory space on a hard disk is commonolace for memory-intensive PC applications.

Unfortunately, when paging begins performance plummets across the board – with particular sufferes being rendering limes, wirefarme generation and, more importantly, playbock, effectively rendering it useless. Basically, PCs ore appalling at memory management. As a result, once paging the activated it will continue, regardless of whether rend memory has become out-able since the peak PAM requirement which inibiated the point of the paging that the property of the paging that the property of the paging that the property is to save out and the property of the paging that the paging tha

re-boot the machine.

This situation doesn't only apply to LightWave. For example, if you wanted to freeze LightWave and pop into another package, paging could kick-in, and you're straight back in snail mode on your return to Modeller or

In addition, PCs do not support shared resources file the Aniga, For example, a multitude of Aniga programs will happily share the same libraries, whereas each individual program on a PC will open its own duplicous of the same resources – which obviously easy set more valuable RAM. Worse still, once opened, many external resources remain resident regardless of whether the application that initiated them is still using them or even still active. Poor memory management on the PC probobly accounts for the fact that the recommended selvefor any serious PC LightWave system consists of a Pentium P90 with 32Mb of RAM. Formerly, Windows NT was the preferred OS, but with the advent of Windows 95 – which like NT also supports multi-tasking – 16Mb is inter shout skoles on an alternative.

The reason for the 32Mb preference on NT machines is a system requirement of 12Mb that is needed simply to run, leaving 20Mb free, a figure which should be enough to avoid the dreaded paging problem. The question is, though after investing in high end Fe, will the average user have sufficient funds for essentials like Photoshop 3.0 and all the other goodies that make a PC cane a viable graphics machine? I know! wouldn't.

Basically, the underlying message is that the road to faster affordable rendering doesn't necessary lead directly to the doors of PC bus shifter. Simply running cash in hand to the local PC World and grabbing the first bargain PC system on the shelf, simply on the strength of its Cork speed sin't a solution.

In reality, high power rendering on the PC has a high price, just like it does on any other platform. A PC, more than any other machine, is quite filterally the sum of its parts. If an element of the equation is missing you could easily end up with a very expensive system that simply won't do what you need.

THE GREAT

As mentioned earlier, NewTek have gone to great lengths to make LightWave on all platforms as identical as possible. There's one thing though, that even their best efforts can't overcome. It's true that both scene files and objects will happily load on any platform. Unfortunately, that still doesn't get past the avairse limitations on one-Modera 95 PCs.

only have a maximum of eight digits, plus a

three digit suffix, such as Lwobiect.lob. Ohviously, Amigas don't suffer from such limitations and, of course, it's not something that third-party developers have considered in the files or create objects will not travel well, especially if they employ a numerical suffix to name clones - null objects being a prime example. The only solution is to upgrade to Windows 95 or manually rename and replace all the objects which don't fit the PC naming criteria. In short, a good old fashioned pain in the backside - not impossible, but certainly not something you'd do if there was a choice, which alas there isn't. The same problems apply to texture maps which your objects will call when loaded into layout, although if you can live with untidy file names, and the odd bit of re-selection, it is possible to copy files over 'as is' - at which point the PC will automatically concatenate the file the ensuing confusion could well make reconstructing the scenes and surface attributes more

FINAL THOUGHT

Although much improved and generally more stable, it must be said that Modeler certainly have had the large-scale overhaul that Layout has enjoyed. But to be fair, with the preview problem resolved and multiple und now active there's little else that needs attention. Nevel'd are obvoor sty taking the same approach to Modeller as they have in Layout when it comes to advanced add onto the systems assicially the custom button does the same lob as the plugine propriating normal insuch.

As for the PC invasion, I'd say it's still very early days. With the lack of any direct third-pany support, and the hardware and software limitations wherent to the PC, it really a case of spending an awaful fort of more or none at all. With the pixe and performance offered by the growing band of 060s, the Arriga still looks in a strong position. The only real question is, will the PC's dominance of Plays in development make the Arriga still go ocu of in the long run?

An a rample of Mindalar's mental professional particular language parameter. The army found playing parameter language parameter language parameter language language



 The big picture running on a Picasso 1024X768 display. It may be a tad slower tha a standard Amiga display but that's a small price to pay for the massive increase in clari-



PRODUCI	DETAILS
Product	LightWave
Supplier	Premier Vision
Price	£695 + VAT
Tel	0171-721 7050

 Ease of use
 85%

 Implementation
 90%

 Value For Money
 82%

 Overall
 89%

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ORROR SENSATION



Have you ever staved up until the early hours of the morning staring subliminally at the television for no apparent reason? I hope so, because then I'll know I'm not the only one.

Usually after midnight there's always a cracking horror film on - probably from either the '60s or early '80s - and no matter how bad the special effects are, or the cheesiness of the music, you will be glued to your set. It doesn't finish there either. As soon as the film ends you realise it's time for bed, and then you will undoubtedly follow this routine... you'll snuggle up in bed and then Boom! A big monster springs out of your wardrobe and goes "Boo!"

Horror Sensation will undoubtedly scare you as we travel into the oh so frightening world of horror. To me, horror isn't ghosts. paranormal activity or the X-files of any description. Horror is just gratuitous blood and guts, and for a brief description of Horror Sensation this fits perfectly.

Every horror-related Amiga file will undoubtedly be on this CD, be it sound samples, text files, images, FAOs, games or clipart - they are all here. And by the time you've searched a few directories, especially the images, you're stomach will be retching just like after your first rollercoaster ride.

I will warn you now that Horror Sensation does have an 18 certificate and it is justified. The images are nothing short of sick and seeing decapitated heads and dismembered widance

Although this picture seems harmless, staring into this bloke's eyes will undoubtedly turn anyone bodies doesn't really appeal to me. I will also mention that I'm not actually referring to any scenes from films or videos - I mean REAL LIFE pictures of bodies. Not a pretty sight.

There are also a host of good quality samples such as screams, blood gushing noises, splats and squelches - perfect for any home made horror films. The text documents contain strange fictional stories and it's all polished off by an excellent menu system whereby everything can be seen, heard and played from a click of a button.

Please! Only buy this CD if you think you can handle these gruesome pictures. You must not even contemplate it if you are of a nervous disposition. You have been warned!

Andy Maddock pinpoints his laser guided vision on to the latest truck-load of CDs from heaven

AXIMUNI always been



together on the Amiga. At basic, all you have to do is pick four instruments to fill in each channel and play them all together. It doesn't matter

if it sounds awful - label your track with the 'alternative' label and you can just about set away with it Maximum Mods is the first in the series of a long line in module CDs. However, something tells me by the time the second one comes out you probably won't have even got through the first because if you listened to every track on the CD all the way

through it would last around ten days. That gives you and idea of how many modules there are on the CD A bonus is that the CD will run on the

Bottom line

PRODUCT DETAILS

Horror Sensation 17 Bit Software 01924 366982

JCURE	•
Ease of use	90
Implementation	89
Value For Money	89

O This is about the only tasteful picture on the ole CD. We're not allowed to print the nasty or

WORLD ATLAS



If you've ever wanted to see the rest of the world you usually have to either commit to backpacking or work your socks off to be able to afford a six month cruise, and only then can you stop off and enjoy the delights of each

Not any more. All you have to do is purchase this CD and you can learn all about

thousands of different countries. If you can sit down and take in all the information it would probably take arrund six months, so all your mates will actu-

ally believe you've been around the world. World Atlas was designed with Multimedia Experience and therefore has an extremely easy-to-use inter-

face. All the fonts are large so readable but it all still manages to look presentable If you've ever wanted to learn about the world, you won't find a better package than the World Atlas. It contains information such as the population, death rates and birth rates, as

well as the economic backgrounds of each

CD32, so all you console owners will happily

be able to crank out some Amiga mods while

you're getting ready for a Saturday night. As

for A1200 and A4000 owners, I don't think

you'll be going out on a Saturday night

because you'll probably be too busy making

feature because it's so simple to use. By highbutton it will load the music. There's no having to find menus, locating open buttons, and no confusing mod players. It's just a 'click and play if you like! There are also many different types of mods including jazz, soul, breakbeat, dance and many more. If you're looking for a particular style of mod you'll find it here - you can be sure of it. Apart from the D-Capo CD there aren't many decent module CDs but, thankfuly, now Maximum Mods is here we're hoping there will be many more to come

ones that already feature on it. The menu system is probably the best

VOL

selecting from all the menus on-screen

local library to pick out some books. Everything you need to know will be there right in front

countries. Although the graphics aren't particularly outstanding, it doesn't matter because the

amount of information more than makes up for it. If you are researching the world for school.

college, or university projects, or just for a general hobby, you won't be disappointed with what you find. The whole package is compatible with the A1200, A4000 and CD32, so the interface is controlled by either the

World Atlas is a fantastic package for lazy people who can't be bothered going to the

Bottom line

PRODUCT DETAILS

١	Product:	Maximum Mods Vo
١	Supplier:	Legendary Desi
ı	Price:	€19.
١	Phone:	(001) 519 753 61
ı		

Ease of use	920
Implementation	909
Value For Money	859
Overall	869

Bottom line

World Atlac 0181-570 3756

PRODUCT DETAILS

Jeone	
Ease of use	94%
Implementation	90%
Value For Money	83%
Overall	90%

MINET 10



As I mentioned briefly

Pagestream version 2.2 So

hat more can I possibly

Aminet 10 contains

O Here's another one

I'm am getting tired of writing this small piece here because sooner or later I will run out things to say,

I refuse to mention the great AmigaGuide that splits up the various categories which allow you to run or extract your programs, I shall not mention that the CD has all the latest uploads, and I definitely will not mention that the CD includes a wide

range of business. games, comms, graphic and sound software uploaded to Aminet BioTech from February '96. Right so there you

SINGLE USED SOFTWADE DICENSE YOU have

go. The only thing I will tell you about is the full version of Pagestream. Er, there's a full version of Pagestream on Aminet 10. See, there you go. Buy it.

Bottom

PRODUCT	DETAILS
Product:	Aminet 10
Supplier:	GTI
Price:	£14.95
Phone:	+49 6171 85937

SCORES	
Ease of use	919
Implementation	889
Value For Money	849
Ouncall	

ON-LINE LIBRARY VOL 1



Over that last six months, more and more peo ple have been connected to the Information Super Highway or World Wide Web either to send electronic messages to people from around the world or to view pages of information about millions of different subject areas

However, anyone who is connected will realise it's not exactly free. Firstly there is the expense of the actual computer itself, then a modem, then sometimes a connection fee, monthly charges, and finally the dreaded telephone bill.

Now you can happily browse a section of the Internet without a massive telephone bill landing smugly on the doormat at the end of the month

The On-line library CD contains many different topics of information which you can view via a 'Web browser', and for the Amiga you will probably need AMosaic or the brand new IBrowse. Now, the problem is this software

Usually, when you are first connected to the Internet, your server will automatically post you the software needed to use it. and this includes the browser. Consequently, unless



On-line Library certainly lacks thought, especially is the design area.

inh getting your own browser as you can't really go out and buy one from the shops. It's just not as easy as that. So if you are going to invest

in this CD you'll have to be connected to the Internet. The CD contains topics that don't really appeal to me such as classical music, the words to every National Anthem the Rible in seven different languages, and sechumour, laws, maths, poetry, politics and recipes. Although all these subjects

Here you are. The much requested words for the Danish National Anthem. Join us next month for

may do a good job of advertising the Internet to a certain spectre of the public, it doesn't really give you an idea of what really is on the Internet. If the CD included excerpts of the top ten sites, including the Playboy site, humor tasteless, and sport sites and, at a pinch, the daily newspaper, then that would probable give the public a realistic idea of what they'd find

I can safely say that I have never ever see anything like these documents on the Interne and this is probably because I never look to anything like it. The Internet is all about you own choice and you are given the chance to search anything you are interested in, be i naked women or your local football team. The CD defeats the entire object of the Interne and restricts what you can see

If you haven't got access to the Internet, the On-line Library will present a nice positive angle on the content of the Internet. To sum i up - it's one to show your mother.

Bottom

PRODUCT DETAILS

Online Library Vol 1 Amiga Library Services £19.99 (001) 602 491 0442

Ease of use Implementation Value For Money Overall

ORKBENCH ADD-ON VOL

Workbench Add-on is also the first in a series, but this time features hundreds of Workbench hacks to make it quicker and fan more efficient. Workbench is the main user base where

copying, running, viewing files has to be done. If you use your Amiga you will need to use workbench - it's a simple as that - and if you use it as much as us here at Amiga Computing then the programs on this CD are absolutely essential, especially if you're not connected to the Internet. The CD is split into various directories for

music, utilities, emulators and more. You will find most of them in a ready-to-run format where you can test them out without the annoying process of de-archiving them into your destination.

There are programs for all Amiga users including musicians, artists, programmers and even gamesplayers. Unfortunately, not all the programs are public domain. Most of them are shareware and contain unregistered versions so if you pay for them you will receive a fully registered version.

This is always worth doing if you use the



program frequently because it lets the programmer know you use it therefore they may possibly develop some additions or updates. Also as a bonus, some of programs on the CD have been reduced to a special price.

There are many Internet utilities available as well to make your connection more efficient and help you reduce that dreaded phone bill by making the access software

Inside the booklet you get with the CD there are various registration forms for products such as Amiga E, AmiWin, DFA, PowerPlayer, ShapeShifter and SuperView. All

you have to do is fill in the form and send it away. You will then receive the latest version as well as the all important key file A lot of effort has gone into this CD to make it as simple as possible and while it contains programs for the novice, there are also many advanced programs to keep any

avid Amiga user happy. All in all. Workbendt Add-on contains some excellent programs which will undoubtedly come in use. It's certainly a worthy purchase.

Bottom line

PRODUCT DETAILS Workbench Add-on Vol 1

Price:	£24.9
Phone:	+49 6171 8593
	SCORES

Ease of use	8
Implementation	9
Value For Money	8
Overall	9

3D-GFX

h the

what

the

m it



The Amiga's specialities often lie with its graphical superiority – there are countless television programmes associated with the

Amiga.

This CO boasts hundreds of 3D utilities which will either get you started or help you if you are an advanced 3D artist looking for applications to make the process quicker and far more efficient and user friendly. There are demos of complete packages, objects, pictures and more animations than you can shake a sick at

To view all the pictures you simply load up the AmigaGuide, click on the relevant sections, and this will automatically start up the animation and image viewers. For beginners there are demos of full packages such as Cinema 4D and PovRay so you can test them.

All the utilities can be found in the root



Here's a well known picture created with LightWave
 one of many pictures on the 3D Graphics CD

directory of the CD and are categorised alphabetically. They range from graphic converters and viewers through to datatypes. All of them will come in handy for helping you design 3D graphics and therefore shouldn't be missed by any 3D at fan.

Bottom

Product 30-GeV Supplier Peelay Price £21.99 Phone: 0181-985 3850

SCORES

Ease of use	90%
Implementation	899
Value For Money	89%
Overall	90%

1 LICENCEWARE



F1 Licenceware is another compilation of software, only this time it's not PD – it's actually all commercial software. Each programmer will also receive royalties so the software must be good if they are willing to pay for it.

If you load up the included AmigaGuide database you will be able to navigate the CD in the easiest way possible by clicking on the links.

These are split up into various categories such as games, education, art and graphics, not to mention a whole host of archived

C The F1
Licenceware CD is
polished off with
an AmigaGuide
database whereby
you can run or
extract the files

disks. The CD contains the collection of titles from F1-01 to F1-100 which means there is quite a bit of software.

The AmigaGuide database will help you either run the software or extract it to disk

The AmigaGuide database will help you either run the software or extract it to disk – around 80 per cent of the software will run straight from the CD. It contains programs such as Ultimate Quiz, Word Plus Pro, Fortress and Blackboard v3, as well as some Amos guides and supplements.

If you want a CD which is based around games then it may be a good purchase. However, the software was compiled from November 1995 so if you want the latest software it may be worthwhile checking out Aminet 10, especially as it's almost £15 cheaper.

Bottom line

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those letter coming! If you bothered to be the state of t

B ACK TO (WORKBENCH) 96 In Ben Vost's article Workbench 967 he takes a very entertaining, they are also very effective for

detailed look at what the Amiga of the future should provide. As a loyal user, I found this to be a fascinating article, creating a virtual chain of what the next Amiga should be, link by link. But I did notice some links left unaddressed, most of them involving the future of the hardware.

To start off, I thought the idea of putting Kickstart onto a flash ROM was an excellent one. Modular VGA-type graphics boards also made sense. Just about every idea was well thought out and should be seen in future Amigas. Specifically, providing sound for all users was a great idea, but one that needs pushing further.

The Amiga cannot move into the future having superb graphics but continuing to allow 8-bit sound to be a weak link. The modular idea for graphics cards should also apply to sound cards.

Another hardware issue is the lack of standardisation. The A1200's all-in-one design makes it restrictive to certain types of expansion, such as graphics or sound cards. Keeping the physical design the same for all Amigas will save third-party developers having to produce several versions of the same product to be compatible with the different designs.

Also standard on future Amigas must be storage devices. High devely floopy drives, large hard drives and CD-ROMs are all a must. It is almost impossible to buy a new computer (an IBM clone, at least) without a CD-ROM drive and a massive hard dine. This would free software developers to create their products without concerning themselves with filling all the information or low density flooppies. In turn, this would reduce the disk-swapping involved in things like installation of

Being a student at the University of Cincinnati (a major engineering university), I witness the immense use of the Internet and the World Wide Web. Not only are they entertaining, they are also very effective forms of communication. For example, my calculus professor posts our class syldatus on his home page (bet flort sir reinter) – ed.). With my Arriga as it is now, it is a rather complex process of program installations to be able to access this information. In the future, Televitting and Web browsing functions should be integrated into the Wrokbench and, in addition, each Arriiga sold should have an internal 1-4.4k modern firming up the communications links of the

The PowerPC processor will be just one of the many strong links in the chain of the Amiga, but in order to maintain an edge over the upcoming Intel P6, the PPC must be integrated into all the new Amigas to provide a consistent base of blazing speed.

These changes in the aspects of the Amiga are i mportant ones that I feel are crucial to the survival of the Amiga. When compared with another computer the Amiga must stand out to the average loe and make him see that they are getting more computer for their money. If the Amiga is to be successful, it must provide a strong base for both veteran and novice users, and with

these ideas, I see it doing just that.

Jeff Rampe. Brecksville. Ohio USA

It's funny how many different things people want from their Amigas, and I wonder what exactly we will see from the next generation of Amigas. Anyway, over to Ben for his comment on your letter.

Putting all the Amigas in boxes with Zoror slots, what a great idea and one that AT seem to be taking up. The new AT 200+ that everyone has been talking about will be just that, a box with a separate keyboard with two Zorros slots in it, opening up the world of RTG graphics cards to everyone. As for the sound side of things, the Amiga still isn't doing to badly. The sound from an Amiga still ranks quite highly considering the technology it is based upon is many, many years old But, sure, it would be nice to see an improvement there too and making the whole thing modular on a plug-in replacement basis is undoubtedly the best was forward.

The only thing I'm worried about is all these extribings people want to put in the base machine. How things people want to put in the base machine, the much are you all willing to pay for an Amiga? Addit COR-ROM drives, moderns, networking and "massive hard drives all costs additional cash. I believe ever Amiga in the world should have a hard drive, a standard but I would rather see the Amiga continue a cheap, but good quality, hobbyist's machine, rathe than ramping the cost up to or beyond PC or Ma

UDGET WORRI

I'm a bit worried about all this upgrading business. Se years ago i god an ASOO for Chismsa which cost new ESOO. It was state-of-the-art then, with thousands good games. Being only nine-years old I couldn't allow many games, and the only real expansion I bought we a \$12% upgrade for ES4 which let me play some of the new games. Great. Only ESSO for a great compute which played all the games.

Today, \$400 buys you a five-year old computer which requires earth hardware to play some of the newer games. Okay, so not many games need an accelerate yet, but if people start upgrading for games, programmes will start programming for these machines, per haps needing 3 or 4 megs, etc. The whole Amiga market will lose its appeal as a home computer - imagine buying an Amiga which was out of date when you bought if I yakin the nire us by to we £200 on too it.

loading.

PART I

Ben Vost's article on improving the Amiga was interesting. but I disagree with him on where the efforts need to be mostly concentrated. Firstly, we must not turn the Amiga into 'just another Macintosh or PC'. I don't use the Amiga because it's almost a PC or Mac. I use it because it has unique qualities that the PC and Mac will never have in a million years. In any case, only those qualities which will benefit the Amiga directly should be considered. Here's what I feel should be concentrated on for both current

and future Arnigas: I. High density 1.76Mb floppy drives should become standard on every Amiga including the A1200. 2. All new Amigas should have the following video

• The standard Amiga video out for genlocks and 15kHz monitors

· A composite video out for connection to a TV or VCR that is intelligent enough to display a blank screen when a non-NTSC/PAL display mode is selected.

instead of just displaying a weird mess. A hardware flicker fixer port that can connect directly to a VGA monitor which can display 15kHz modes on a

VGA monitor and pass through higher rated modes untouched. 3. The new base A1200 should come with a 68030

at SOMHz and 4Mb of FastRAM as the new low-end 4. Implement a new graphic chipset that can display hun-

dreds of graphics sprites even on a VGA monitor, and offers chunky as well as planar access for all screen modes. Also, add 3D algorithms, smooth VGA scrolling and full 24-bit color for screenmodes up to 640x480 in the hardware. A 16.7 million color 320 x 200 fast chunky pixel mode with sprites would make for truly impressive games!

5. A full chipset upgrade should be made available as a simple motherboard swap for any Amiga, for upgrading the A500, 600, 1200, 1500, 2000, 3000 or 4000 to the new chipset. Motherboard swaps are quite popular with the PC crowd these days, and for good reason. Imagine simply popping out the motherboard in your old A500 and popping in a new motherboard with AGA+ graphics. an IDE hard drive interface, a 68030-50 and 4Mb of FastRAM as standard!

6. Ditching the Amiga chipset is a bad idea. Instead bury it in the machine somewhere so it's always available on any Amiga, although another graphics chipset/card can be used in its place.

7. All future Amigas should come with a built-in LAN connector

8. Improve the serial connector with a much larger buffer space and consider changing it to a nine-pin connector to conserve space. 9. Implement a stereo FM chip and a stereo 16-bit DAC

into the Amiga as well as a microphone connector with an ADC and a line in with an audio mixed 10. Add a SCSI-2 connector as standard but ignore the

requests to ditch the IDE interface. Keep that for cheap hard drives and CD-ROM devices.

11. I agree that adding in a built-in speaker would be a good idea but why not have built-in stereo speakers with a volume control on all new Amigas? Just make sure that plugging in external speakers automatically deactivates them. This might entail a switch to a mini phono plue for audio out, a software-controllable switch, or an actual hardware switch on the back of the machine

12. Also, a WB4.0 better have some sort of built-in RTG capabilities just like Ben said.

Let's hope Amiga Technologies hear our requests and really revives the Amiga like it deserves to be. I can't wait to get my hands on a PowerPC upgrade for my Amiga 1200. The future of the Amiga finally shines again.

Terry Miller, Bartlesville, Oklahoma USA

sigh Back to Ben again...

Right, let's go through your points one at a time...

1. Agreed, and already stated. 2. Agreed, particularly with respect to the screen

blanking for inappropriate modes. 3. How much do you want to pay for this machine

4. I do believe that there has to be a change in the way the custom chipset is programmed so that it can deal with chunky pixel programming at resolutions where planar is inefficient, ie. anything over 64 colours in low resolutions and over 32 colours in high resolutions. But I'll refer you back to my answer for 3 when you start talking about 24-bit screenmodes at any resolution...

5. The reason motherboard upgrades are popular with the PC crowd is because they are cheap, standard and easy to fit. I don't know if you've ever tried removing a motherboard from an A500, an A1500 or an A3000T like I have, but I can tell you it's no picnic. Besides which, having to make new motherboards for all these machines will drive the cost up higher than that of supplying a completely fresh machine. If AT standardise their case style as the previous reader's letter suggested, then, perhaps, a motherboard upgrade can be offered in the future

6. See 3.

7. See 3, but in principle I agree, Adding the software to allow for networking is more important in my opinion. People can always use the serial port for a SLIP connection, they don't need a dedicated ethernet port.

8. Agreed, Speeding it up would be a good move too. 9. Hang on, I thought FM sound was worse than the Amiga's. Isn't FM synthesis the sort of thing they do on really cheap PC sound cards and consoles which is

only a waveform generator? As for the rest, see 3. 10. See 3. IDE devices aren't that much cheaper than SCSI so the saving for the end user wouldn't compensate for the lack of standards.

11. How much room do you believe will be available for shielded speakers in these new Amigas? I think supplying one speaker gives people enough sound to be going on with. The A3000T automatically switches the internal speaker off if there is something connected to the audio connectors on the back of the machine, so you don't need a switch

12. It had better have an awful lot more than just RTG compatibility.

ACKLASH

And so it starts; the somewhat RIZE LETTER

unfortunate but perhaps wholly predictable backlash against Amiga Technologies. I suppose we were all led such a merry dance during the dreadful Commodore years

that we cannot control our in-built and painful cynicism about the gurus (no pun intended) who are now responsible for the welfare of our chosen machine It is, of course, all too easy to hunch over our com-

puter and complain bitterly about the mistreatment being dealt out by AT, but could I beg everyone to stand back, take a deep breath and for God's sake CHILL OUT! It ain't that bad. People were discontent that the Amiga had not been

on sale for over a year; there was concern that the new buyer would just pinch the technology and be damned with the home computer market; an upgrade was needed urgently; dirt cheap prices were required: the future path of the technology was in some doubt. I think it's fair to say that Commodore were at fault

over the sale of the company. Typically, they were unable to organise their own funeral effectively because they were too busy trying to screw the biggest buck out of some poor sucker. There's no doubt that the UK management buyout was the most favourable option from a user's perspective - better the devil you know and all that - so when Escom pipped it at the last moment the trepidation was palpable.

And yet, Escom/AT have shown a remarkable commitment to the technology which has certainly surprised me. Let us put ourselves in AT's shoes. Having just spent in excess of \$10 million on a product that everyone thought was dead, what were they to do? AT owned the Amiga, but at the time it comprised a few bits and bobs of hardware scattered around the globe with no guarantee that AT could get their hands on any

an already high price. The Amiga is turning into a PC and if AT do bring out an A1200+ that has an '030 the A1200 will need to be upgraded to be usable. I agree that expanding your Amiga will make it quicker and greater overall, but if it starts a trend then we will all have to spend more money upgrading, trying to keep up with the new standards. This will make the Amiga look more expensive, less like a home computer and more like a PC. Zenon Olenski, Timperley

I think you've got your dates a little wrong there, Zenon. The Amiga 500 was state of the art way back when in 1988, not 1990, and cost £500 until about the middle of that year. But at that time, a half meg expansion would have set you back around £110, not £34. But as for what you say about upgrading your machine, I would have to say you are talking tosh. The computer industry moves faster than a cheetah with diarrhoea, and it won't stop just because you don't want to spend any money. Computing is like any other hobby, it costs money to keep it going. And don't you want any games that push the Amiga to the full? Aren't you one of those people who want Doom

or Duke Nukem on your machine? Well, they won't run unless your Amiga is fast enough and has enough memory

The fact of the matter is that the Amiga is only a cheap machine initially, thereafter it is just like any other computer. The major benefit is that you don't have to lash out all the cash at once, but please don't expect to get the best from a base level machine.

of it anyway. So, with a logical – indeed, necessary – eye on the Christmas marker, AT resolved to put the Amigas back in the shops in time for the Yoleide celebrations. They were therefore starting from szratch and, lo and behold, they did it. Even then, grumbling were aloot about pricing, but given that production was ramped up so fast I think we should count our blessings, particularly as the blow was softened by an excellent scheme handle.

If the term cock-up can be levelled at AT, so far there are really only two areas that spring to mind, incompatible floppy disk drives and Scala MM300. The first is porsyable as incompatibility arises only with cetain games and AT have made moves to sort out problem machines – the onus is now on AT to ensure that flues are made quickly and efficiently (that is, after all, what the promotion of customer safiscation is all about

The second is a bit more thorny. There is no doubt that Scala MM300 is a magnificent piece of software and the option to bundle it couldn't be ignored, but AT really should have foreseen the lack of memory problem with a standard A1200 and made it clear from the oustet that the program worlt run in 2Mb of memory. This is most definitely a customer service cockup worthy of Commodore, but even so, I don't believe it is incurrence within.

Readers may remember that Scala HVT100 (the bottom of the range version, for the uninitiated) was given away on a coverdisk some time ago. I have used it on my A1200 ever since as it represents one of the most intuitive and user-friendly programs I have ever seen. Okay, so it doesn't exactly stretch the AGA chipset - in fact it doesn't use it at all - but it does emphasise that the Amiga is the most friendly tool for this kind of work. Most people who see my home videos gasp in wonder at the professionalism of the titling, even though I only choose from four fonts and work in a maximum of 32 colours. If, therefore, Scala HVT and MM300 were both bundled with A1200s then users could get an immediate glimpse of the capabilities of the machine. An exhortation to upgrade could also be included - 'If you think this is great, get an extra 2Mb and let MM300 really change your life' - you know the sort of thing.

Maybe 'm just being nalve, or maybe I've just conved my machine too long, but I genuinely believe that the Amiga has a strong future, both as a games machine (where the main user base still is) and as a home productivity tool that is second to none for ease of use and flexibility. So let's stop whining: instead let's enjoy and be proud of what we've got and let us look forward positively. Just wait for the PowerAmiga, it's gonna be a killer.

Jamie Winter, Waterlooville

Finally, one I get to respond to. Your well-reasoned argument has persuaded me to let you have the £50 pitze for this month, not something I give light, think you are completely correct in your view of how AT are doing. When you think that they have gone from nothing to producing Amigas inside a year, that's a pretty inverselve feet an it is own right.

that's a pretty impressive reat in its own right.

But you are also correct in pinpointing the two
major failures. The Scala situation is pretty inforgisable since I know that Paul Austin and Ben Vost
brought up the problem of memory and hard drive
space when Escom held their press conference in
May last year.

Originally, Scala was to be bundled with all machines. Perhaps AT should install HVT100 as standard on all hard drive equipped A1200s, but leave MM300 for A4000T owners who would be able to make use of it immediately.

AMIGA COMPUTING FIRST AGAIN

His headline, not ours

I often buy a copy of Amigo Computing and more often it seems you are first with news articles. I think the other magazines try too had to be first on the shebes and then get a month behind with news and articles. Several times I have read interesting items in AC before the earlier released other magazine runs out soon I will be subscribing to AC instead.

As a keen Amiga using astronomer I have been interested to find more details about a program I heard about on the World Astronomy Fidonet echo called Digital Universe. Looking at all the astronomy magazines, one would be forgiven for thinking that the subject was only catered for by the PC, so a new and apparently littler serious application for the Amiga is of particular interest to me.

The Amiga has a great range of software but the amount of scientific software is very limited and a program like this can do much to improve the Amiga's (rightful) image as a serious machine.

Another magazine with the initials AF had a sort of astronomy article in their Christians issue and a hall promise of a Digital Universe review in the January sous, which never materialised. Less delighted to see a copy of AC in my nexusagent which had the first review I have yet seen. The review was good and highlighted some of the improvements which could be made to the program such as better image quality and support for gaphics cards (although the latter won't affect me).

There were a couple of factual errors such as the Cassini mission going to Jupiter instead of Saturn and the odd mention of parallax in relation to Copernican theory. By the way, the heliocentric idea was first thought of by Aristarcus of Samos – an ancient Greek.

I have already sent off to Canada for more info on Digital Universe but was glad to see an independent review beforehand. The review does not state whether the program can be obtained in the UK or whether yo have to order from Canada, though giving the price UK pounds was very useful. It is a pity DU comes on I disks and there is not a CD version as yet. The ris Distant Suns and upgrade First Light will be available for the Amiga on CD according to the distributor

Despite praising AC, I do have one gipe. News an articles are good and usually first. However, there is glaring (and quite insulting to an astronomer) error the contents page. There is no way that Digital Univers is an ASTROLOGY program. Astrology is fortune telin superstition which has absolutely nothing to do wit the real and far more fascinating science of astronom,

Princin Laves, ma

I don't know why we don't just rename this column 'Ben Vost replies' for all the words I am getting in edgeways...

I believe. Mr Eares, that if you are still getting, and demented the angiestin, you will find the review you looked for of Digital Universe in the March sixue. I have been talking to Dan Charrois, the programmen of Orgital Universe than the created in the control of the Charlos of the Charlos of the award of some sort in its own right), and he tellum that much of what I suggested will be implemented that much of what I suggested will be implemented in mages and a CD-800t delivery yetter. As for a sum an aware, Dit is still only available factory from him, but he does neply very worth you it will probable than the year of the control of the control of the control him, but he does neply very worth you would not you would not have the proposed of the control of the control of the control of the him, but he does neply very worth you will you would not you would not have than if you had ordered in the UK.

As for the errors in the review, mea culpa, I got il wrong. But the astrology/astronomy cock-up on the contents page can be put down to a philistine whe neither knows nor cares about the difference in the two subjects. "It's all to do with stars isn't it?" was his reply.

AND FINALLY, BEGORRAH...

I feel I must congratulate your art department for its manellously inventire use of a pint of Guinness (spelt with two 'n's incidentally) to indicate that AC97 contained an article on Irish Amiga users.

But why stop at the pint of porter? Ireland has a wealth of stereotypical cultural images to choose from. I realise that it may have been hard to get a decent render of a leprechaun, but surely a few shamrocks liberally doused around the front cover wouldn't have been that difficill; beergraft.

Otherwise, thanks for a well-balanced and informative magazine, not brashfully devoid of those irrelevant little electronic symbols. However, I still feel that the new properties of the still still still still still still seen and you with his Union Jack wasti-coated building stanking or coast beef and vyriskine pudding-eating, bowlerhatted, gentleman outside Big. Ben as is so often the scene in your capital city, riest-ce page 100.

Pat Jackman, Danagh, Wexford, Eire

To be sure, you're right, so you are. Twas a terrible thing to do, but our art editor is a desperate man, so he is, so I hope you'll be forgiving us. What a Kerry man thing to do, eh? Actually, the cover image we were trying to get would have been the DigitalWinter

shot used in the article, the one by Tony Patrickson. However, when the crunch came, the powers that be wanted something a little more obvious and commercial, in order to attract occasional readers (who are interested in drinking presumably), so it wasn!

used. As for your article, when are you going to send it to us? Seriously, we welcome any contributions by our readers. If your writing is any good, then we will probably end up using you on a regular basis. If you want to send us a sample of your writing, you can write a piece of about a 1000 words on any Amiga related topic. It can be a review, a tutorial or a feature about local Amiga use. It doesn't matter if you review is of an old product, it's your writing we want to look at. Send your articles on an Amiga-formatted disk as ASCII text and include a printed version along with any pictures you would want to use in the piece (either as screenshots saved as IFF or the original photos). The address to send your submissions to is:

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BEGINNER BASICS

Please help out an Amiga beginner with Workbench. Some of these questions are probably stupid but 1 have worked through the manual, plus two Bruce Smith books, without finding the answers and I'm getting desperate. I have a plain A1200 with an external drive and a Cannon BJ 10sx, and I have no have drive.

1. I am customising my WB 3 disk, and although i.can drag the goodies in from the Extras disk, I am unsure of the destination drawer. For instance, I have put the Init Printer in Prefs and double-click it every time I boot the machine. There must be a way to run Init Printer automatically on boot up? Also, where should the other items in the Tools drawer be placed on the WB3 disk — is there some rule that I have misself.

 My printer setup works on readme and doc files, but every so often I get a 'Cannot open your tool much more'.

3. What are these libraries and where do they live on the WB3 disk? I have seen that PD libraries offer disks containing extra libraries – do I need them?

When I access the Tools menu the only item is WB Setup. Where are the user-startup and startup-sequence that I am supposed to use?
 Why do I get 'checksum error on block."

1703' when I try to copy my working copy of WB3? All my blank disks cannot be faulty, perhaps this is a protection problem?

6. New programs seems to need more than

6. New programs seems to need more than 2Mb. How much do you recommend I add to keep ahead of the trend?

Dorene Cox, Essex

1. I hope you are using copies of your original Workbeach disks because if you destroy one of ing to get hold of replacement copies. When copies when copies when copies when copies when to you workbeach disk it does not matter where you place them. It is generated the program of the gets to the stage where you have quite a few programs cuttering these drawer unight want to consider creating further unique to the programs and the programs into the program into the progra

If you want a program to run automatically from Workbend by you can drag; it into the WBStartup draw. Each time Wassersch Sates all the programs in this Wassersch Sates all the programs in this Wassersch Sates all the programs in this Wassersch Sates and the programs in the Wassersch Sates and the programs in the programs in the about what you are doing Firstly id on not think it is necessary to run the lait Printer program because when you turn on your machine or your machine resets it sends the same message to your printer.

The other thing I must say is why copy these programs off the other Workbench disks? You have a second drive so why not just insert the disks in there and run them off their original disks? amiga computing advice service

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easily add menus, docks, icons and hot keys to your Workbench programs 2. Either I am the one getting a little confused or you are confusing the things you are doile, Normally you only get the Cannot open you tool blandy blar when you double-click on a file's icon that is not estup correctly for your computer. This has nothing to do with how your printer is setup, and is to do with how Workbench tries to run programs and the tools specified by icons.

In the case of Muchklore, this is a tool used to read text files. If you click on the he will be a file of the control of the

This sort of thing is a constant pain for Amiga users. Because there are so many different text readers around you invariably end up with the 'cannot open your tool blardy blar 'requester. There are a couple of ways around this. You can either use a tool alias program that allows you to substitute programs such as MuchMore for another program you have, or you can use Toolmanger – it was part of our beginner coverdisks on our January issue – which allows you to place an Appicon on the Workbench that you can drop files into. If you do this with Multiview you will be able to view text, sound, graphics an even animation files of any Datatype yo have installed.

and installed.

3. Another source of constant problem for beginners and experienced users an whole Amigas libraries. In fact, the Amiga entire operating system, called Kickstate is made up of abased run time filtrarie is made up of abased run time filtraries and tim

Amiga libraries can exist both on your Amiga's ROM and on disks, and allow new or updated libraries to be added at a late date. Normally, as in the case of you Workbench disk, they are stored in the Libs drawer on the root of your Workbench disk.

You can find this by selecting Show at files from the Workbench window mea. Generally if you get a program that need extra libraries other than the standard Amiga libraries, they will be supplied with the program archive or on the same disk. The only exceptions to this are the MU libraries as they are too big.

In day to day use the only really vital third-party library that you should have is called RegTools. This has been around for a long time and as such is used by a fair few programs, but again it is fairly small about 40k – and is normally supplied with any program that uses it.

4. I take it you are talking about the Workbench tools menu, in which case there is only meant to be the one entry. There are programs out there that allow you to add your own programs to the tools menu – Toolmanager being one but

unfortunately, as standard there is no way to add things to this menu in Workbench - another over sight by Commodore.

The startup-sequence and user-startun scripts are found in the S directory hidden on your Workhench disk You should not change you startup-sequence and do not have to touch the user-startup except to remove entries. To modify these files you need to run a text editor, and the simplest way is to open a shell and type Ed stuserstartup. This will then load the standard text editor with the user-startup file.

5. I would think this means you have an error on your WB3 disk and not the disks you are copying to. If you are going to be constantly copying to one disk then it is inevitable you will get some sort of disk error. The only way to fix this is to get hold of a file recovery program. One of the best is Disksalv - version 2 is shareware and is available from any decent PD house - or the more up-to-date version 3 is a commercial product but does provide more comprehensive tools.

Another disk tool worth getting hold of is Reor. As you are constantly copying, deleting and moving files on your disks. the free room on the disk gets split up into small sections and can make disk access very slow. Reorg reorganises your disks so all your programs are stored in the most efficient manner.

6. Not only should you consider the amount of RAM you have, but also storage

space and processor speed. The most commonly used programs such as Wordworth and Final Writer now need several megabytes of space along with the normal Workbench files, libraries and devices. This all adds to you needing a fair bit of storage space, the only real

answer being a hard drive. When it comes to RAM, you can never

really have enough. You do not actually say what you plan to use your Amiga for. but if it is for word processing then adding another 2Mb will be enough. The thing is accelerators are so cheap nowadays that it is worth considering getting one instead of a plain RAM board, and as most applications are aimed at the base A1200, any speed increase is always very noticeable.

RELUCTANT RENO

Following your review of the Reno CD drive I nished to purchase one. Having eventually connected the CD-ROM drive to my A1200, after some problems receiving the correct gender changer. I placed the instal-

lation disc in DFO only for the icon to appear as DF0:???. On closer reading of the directions I see that one has to be running Windows in order to operate the CD-ROM drive

the operating system of the Amiga, made having Windows unnecessary. Do I now have to purchase Windows or is there a way of operating the CD-ROM drive from Workbench? Indeed, is Windows compatible with the Amiga 1200? If it is necessary to have Windows, I would have thought that

M Fleming, Surrey

You seem to have got your wires crossed a little here. To solve your main problem

you need to get hold of, but should have received with the Reno drive, the AmiCD-Handler software. This is

because unless you have Workbench 3.1 you do not automatically have the software that will make your Amiga

recognise the CD drive. This software provides the file system that will allow your Amiga to read any CD drive connected via a SCSI interface.

Once you have got hold of the AmiCDHandler software

you need to install it. This is much easier than it may sound because you install the software using a standard installer script. All you have to know is the name of your SCSI device - if you are using a Squirrel this is squirrelscsi.device - and the SCSI Id number of the Reno drive - this can be set on the Reno drive itself. Once this is done

you can run the device driver and the wonderful world of CD awaits you. I think I should clear up a little confusion you are having about Windows. I would guess the disk that came with

the Reno drive was a HD PC disk that the A1200 cannot read which is why the DFO:???? icon appears. Windows is the operating system written by Microsoft, and it comes in a number of flavours - the most commonly used being Windows 95 for PC IBM compatible computers - and you are right in thinking Workbench makes needing Windows unnecessary, and also that Windows is unavailable for the Amiga. If Windows 95 was available for the Amiga you would need an A1200 with 16Mb RAM, an 040 processor and a 1/2 Gb hard drive, and even then it would not do anything more than Workbench already does.



CONCERNS

I have recently decided to join the CD-ROM revolution and would like a few questions answered. The unit I am considering is the Power

Computing quad-speed CD-ROM, if I can afford it I currently have an A1200 with a 120Mb hard drive, 4Mb Amitek Hawk FastRAM expansion with no FPU and two external floppy drives. I would like to know if the drive will work with this setup and if the later addition of a 33MHz FPU would have any effect on the system. Additionally, I also have access to an A1500 running

This machine has a GVP HC8 hard drive/RAM board with an external SCSI connector. Would it be possible to use the CD drive with this machine if a suitable cable could be obtained.

Mark Henderson, West Midlands

As far as I know the Amitek board will work fine with 4Mb of RAM, in as much as any of the RAM expansions work fine, as long as only 4Mb of RAM is used. Normally, if plain RAM expan-

sions, not accelerators, have more than 4Mb the PC slot is made redundant as the RAM expansion uses the same address space as the PC slot, so the processor cannot access the PC slot. This does not effect accelerator boards as they use

their own address space which allows them to access much more memory than a standard A1200 up to 128Mb

Adding a FPU should also have no effect on the CD drive, but you do not need such a fast FPU because using a 33MHz chip on a standard A1200 will only give you a slight speed increase over using a 20 or 14Mhz version. Data is still supplied and taken from the FPU at 14MHz so a faster FPU is standing idle much of the time. To get the CD to work with the GVP interface you

will not only need the correct connection but also the correct software. If the machine has the full Workbench 3.1 software then there is a CD DOS driver supplied with it. To adjust this for use with the GVP board you need to drag it from the storage drawer over to the Devs DOS drivers drawer. Pop up the information requester and change the Unit entry to the SCSI ID of the CD drive, and change the device driver name to that of the GVP device drive - this will probably be something like gypscsi device. Once everything is connected up you can double-click the DOS driver icon and the CD drive should be available.



Do you have a problem? Do you sometimes find yourself poised over your Amiga with axe in over your Amiga with axe in hand, spouling prolanily at the stubborn refusal of your software or hardware to behave properly? Well, calm down and swap the axe for pen and paper, jot down your problems, along with a description of your Amiga setup, and sond it off to Amiga computing Advice Service, 100 Media, Media House, Adlington has been supported to the property of the control of the c Media, Media House, Adlington Park, Macclesfield SK10 4NP. Alternatively, e-mail us at

SIMPLE SAMPLE

I have a stock A1200 and am look ing to buy a 16-bit sound sampler that has high quality recording with a minimum of hiss. I would be willing to ungrade the \$1200's processor and RAM if the sampler required it, any suggestions?

Ben Finowski. Ohio USA

If you wanted 8-bit sampling then there would be no problem as both the Technosound Turbo and Mega-Lo-Sound samplers provide good 8-bit sampling. Unfortunately, 16-bit samplers

are only available for big box Amigas. The best solution currently available for the A1200 is the Aura sampler made by HiSoft. This gives your A1200 the ability to sample and replay stereo 12-bit samples, the software that comes with it lets you manipulate 8,12 and 16-bit quality samples, and OctaMED v6 supports it so you get an extra sound channel to play about

You say you have a plain A1200, but if you are going to be playing around with 12/16-bit samples a hard drive is going to be essential, and extra memory would be a great help as both these are going to allow you to sample at higher rates and longer lengths of time. If you do not know, the higher the sample rate in KHz the better the quality, but the more memory space they consume

Having a hard drive will also allow you to sample direct to disk, so essentially letting you sample very long periods of

When doing this the speed of your processor and hard drive will dictate the top quality you can sample.

POWER UP

I have an A1200 with a 120Mb hard drive and two simple questions. When do you think the PowerPC boards will be available for the A1200 in the United States and what will they cos in cold, hard US dollars? I will appreciate as much information as you can give me on the

Secondly, talking of money, can you list the price of things in American dollars as well a

LIK nounds or better vet why not print a UK vs USA curreno equivalency table as a matter of course in

every issue? Something like that sure would help us on this side of the

pond Christopher Mohr California

The original release from Phase 5 states that PowerPC boards will be available mid 1006

These will be available in a numher of configurations, initially from 'low-end' 100MH: MCP603e up to 150MHz MCP604 boards. There are also plans to develop high-end systems that will be packing 300MHz MCP620 and will include 64bit wide memor and bus systems. with an optional PC

bridge. The initial price range is from DM1000 up to DM2000, which translates roughly to £450-£900 or

\$675-\$1350. Obviously, things are still at an early stage and the final specifications and pricing could, and probably will, change, Along with the board I would expect you will get PowerPC software support. As a PowerPC processor will be able to run Emulated 680x0 code faster than your A1201.

some sort of emulator will come with it. Along with this you will also get CyberGraphx 3 which is going to give the Amiga proper RTG support along with a set of new 3D libraries. Personally, I cannot see why we could not print the prices in US dollars, but I will have to see what our production staff have to say.



revolutionise and rejuvenate the Amiga

Jargon

Applean - introduced with Workbeach 2, on Application's Icon. When you run a program it can

Detetypes - a system standard that allows any pro-Datatype file. So a program that supports picture Datatypes can load ILBM, CIF, Joeg and any other

Rom - Read Only Memory, refers to port of the computer's memory that can only be read from and not written to, compared to RAM that can be both

set - directories are said to be ordered in a tree fashion, with directories existing in other directors directory. So DAM: is the most of the DAM directors. Archive - an archive refers to a sumber of files that

Device Driver - a special piece of code that lets the tems, such as PC/Mac/Zip disks FastRAM - so called FastRAM on the Amiga is

access and program can be run faster from Yast' RAM than from 'chip' RAM, as there is no access

PC slot - also known as the PCMCIA slot, this is a

FPU - Flusting Point Unit, a specialised chip or pat of a chip that is dedicated to calculating Floating puters to store very large and very small numbers

Any software that is entirely in the public domain

MD - when connected with floory disks it means high density. These disks can store twice the amount of data than a normal DD or double density disk.

KHz - refers to how many times a second a sample 40,000 16-bit samples a second

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Nothing ever happens in Cricklewood. But as Dave Cusick can testify, the Amiga PD world is rather more interesting

hen i finally managed to drag myedl away from guiding Red Religated to their third connections upgloadean domestic double in the latest set on the support Servible Soccer and got around to dring some proper sometimes to usual mixed lag of PD guidbers available. This month's selection include some decent games, an example of how Promovane definitely should not be written, and plenty of utilities with which to enhance your Workberch.



HOW TO TIE DYE

Produced by: Peter Aston Available from: Roberta Smith DTP

It might not seem to be the most interesting subject on which to base a CanDo presentation but, in actual fact, How To Tie Dye is a readable, informative and absorbing disk. More and more tie-dyed clothes are in evidence these days, and if you tancy having a crack at producing your own, this is an ideal place to start.

The main menu offers information on how to get started, he various techniques which can be employed to produce different colourful effects, and the decisions you'll need to make along the way. As well as simple text (coverlaid, of course, on suitably garish backdrops) there are black-and-white digitised pictures and diagrams, some of which can be clicked on to bring up more facts and advice. How To Tie Dye so

impressed me, in fact, that for a moment I even toyed with the idea of having a stab at it myself, until the realisation dawned that I'm completely pathetic at that sort of thing. Still, if you're not, then How To Tie Dye is strongly recommended. It comes on two disks and requires at least Workbench 2.

Concept and Herrical

Brown Hard Francisco III and the concept and the concept

Multi Dyeing

The control for a prediction of control for the prediction of control for the prediction of control for the prediction of th

C Produce your own top fabric designs..

O ...and hopefully you'll do : better job than that 'Ren' in Neighbours

PHANTOM

Programmed by: Andrew Lunn Available from: OnLine PD

Scarcely a month goes by without at least one updated version of a golden oldie tumbling gently through the Public Sector postbox. This time, it's the turn of that arcade gem Defender to make a welcome reappearance.

Just in case you've never encountered Defender (admittedly a rather unlikely scenario), the aim is to protect a planet from alien invaders who seek to steal precious canisters of, erm, something or other. Basically, the idea is to shoot the beasties into lots of tiny pieces. Yes, high soped blasting action is the

order of the day, and it's as tough and unforgiving as can be. Simply hurtling through each level blasting frantically won't get you very far, although you'll have to take extra care when carefully combing the planetscape because Phanto

have to take extra care when carefully combing the planetscape because Phantom doesn't feature the scanner that many such games do. Decent enough graphics and some nice atmospheric music are the licing on the cake. Phantom's a worthy purchase, although since it's shareware you really should send the author a fiver as a repristation fee.

1988 AB AB AB AB

O They certainly don't make games like they used to

NOBODY LIKE YOU

FLUMMY UTILS 4

Programmed by: Various Available from: OnLine PD



O Surveymem can be set up to suit your needs using the ha

commodity. Many of the features found in MultiCX, MCP, YAK and all the others are here too, as well as some novel ideas like automatic centering of workbench windows and minor menu enhancements. It also manages Assigns, CLI Aliases, and so on. It's all nicely done, although to be honest you'll only ever need one of these programs and I'm personally still an MCP fan. If the author Ian Einman continues to develop AddPower though that situation could change.

This is another interesting collection of utilities.

Associate is a handy program for assigning icons to files. Selecting 'Show All Files' then drawing one or more files onto the Associate Applcon will create icons based on the file type, so, for instance, all picture files could have the same icon and all sound samples another. If the program can't recognise a file type, a requester pops up and asks you to

select an icon. Then there's Autostart, which acts effectively like a more powerful version of Workbench 3.0's WBStartup drawer. Workbench tools, shell commands and scripts, and ARexx scripts can all be started. It's also slightly more versatile than WBStartup because pressing the mouse button allows you to skip the loading of certain programs. With a pleasant interface and some excellent documentation. Autostart is definitely worth a look

Surveymem is - hurrahl - another memory monitor program. Still, it's a very good one which runs as a commodity, has a highly configurable display, and can be popped onto the frontmost public screen at any time. It also has

a groow graphical memory display. Trashicon dumps a trash can on the Workbench screen, and all files dragged onto this Appleon are deleted. It also rather usefully updates the Workbench window so you can see what's been wiped

Of course, nothing's perfect: there's a nicely includes all the usual screen savers (starfields, flying toasters, etc), but seems worryingly unstable for a terminate and stay resident program. And there is also Colors, which might be

marvellous but I haven't the foggiest what it does because the documentation was totally garbled and the program crashed my system. But apart from these two slight disappoint-Workbench utilities.



HA FILES VOL 1

Programmed by: Various Available from: Roberta Smith DTP Disk No: AC0343



() Useful utilities are waiting to be decompressed on this dist

An Amiga Club International compilation disk consisting of carefully selected Lha archives and their accompanying ReadMe files, this disk attempts to provide a handy workbench utility for everyone

There's Iconimage and Iconinstaller which, unsurprisingly, allow you to do fancy things with icons. Both have nice drag and drop interfaces and are capable of changing icon images without altering the tooltypes, amongst other handy features. MUI-Join is a file solitting and rejoining program making use of Stefan Stuntz's Magic User Interface. RAMicon allows you to install a nice icon for the RAM Disk.

redefine the keyboard shortcuts for Workbench menu functions XToolbox creates a little window containing pull-down menus which can include all sorts of programs - a little like Toolmanager. plus a rather attractive 3D interface but minus a friendly configuration program and the more fancy features. Still, it remains probably the

most useful archive on the disk. As ever, there are a couple of little workbench memory monitor

programs - useful to programmers, but surely there are enough of these around by now. There are also OS 3.0 datatypes for Windows Icons, and Macpaint, PCX and .BMP picture files, as well as a processor preferences program, and some odd inclusions such as the occasional Swedish or Italian catalog file. Varied then, but scarcely indispensable.

AUNTED BY YOU

The latest version of the wonderful Master Control Program, complete with numerous bug fixes and little enhancements, is now available. There are separate 68000 and 68020 versions of the all-singing, all-dancing commodity and an the updated preferences program uses MUI, giving it an attractive interface which makes configuring MCP to your tastes a swift and simple task. MCP v1.10 is freeware, and is available from OnLine PD.



My favourite do-it-all commodity, MCP, constaproving and now at version 1.10

CIRCUS

Programmed by: Graham Mackarel Available from: Underground PD

A variation on another classic game of vestervear, namely Breakout, Here, instead of using a ball to demolish a wall, you use clowns hopping on a seesaw to pop passing balloons.

The game is controlled by mouse and there is a definite knack to making the flying clown land at just the right point on the seesaw to launch the other clown as high as possible into the air

There are also bonus objects which appear when certain balloons are burst and can be collected to give your clowns special abilities. These include Umbrellas which earn you an extra life and lots of points, Diddy Balloons which allow you to control the flying clown's position with the mouse, and Wings, with which the flying clown can gain extra height

There's a second game on the disk called Drip, by a bloke called Art Skiles. which bears something of a similarity to Pacman. The objective is to travel around a screenful of pipes, rusting the pipes as you go. Along the way, various enemies will be in pursuit, ranging from ice cubes to electric coils. If they get too close, you can 'drip' yourself down the screen to another pipe.

With 15 levels to negotiate (none of them very easy), Drip presents a longterm challenge. It's been knocking around the Public Domain for some time but as one of two simple but addictive games on this disk, it should provide



ULTIMATUM

Programmed by: Stuart Matthews Available from: Underground PD S COUT V2.3

Programmed by: Andreas Gelhausen Available from: OnLine PD

Classy presentation, atmospheric music, and some flashy introduction screens set the scene beautifully for this futuristic 3D shoot-'em-up. The year is 2030 and crime levels are at an

plenty of entertainment

all-time high. A new breed of criminals, the Transgressors, increasingly control every aspect of city life. The law enforcement agencies have poured all their resources into ending the violence but until now, they've struggled to contain it. Now they've come up with a new weapon in the fight against crime: the **Vindicators** You play one such Vindicator, Rick Murphy,

whose family has just been wiped out in a cunning strike by the Transgressors. In an effort to gain revenge you have challenged the Transgressor gang members to a series of oneon-one tank duels in special combat arenas.

Ultimatum is an enjoyable blaster, with plenty to challenge even hardened gamers. It's not perfect; there's some irritating disk swapping during loading, although thankfully the game is hard drive installable, and whilst the graphics are colourful, they are functional rather than spectacular. The frame rate isn't stunningly impressive either which can, at times, make keeping track of your enemy's position rather awkward. Still, 3D games frequently suffer graphically due to their complexity, and since Ultimatum was written in AMOS 3D, a lot of these problems aren't really the author's fault. Besides, the most important aspect of any game is the playability and in that respect Ultimatum fares well, making it definitely worth a look. It requires at least an A1200 to run, and is shareware, with the registration fee being fifteen Australian or ten US dollars.







∩ The rather tasty MUI interface of the

highly informative Scout

Scout allows you to monitor what's going or inside your Amiga. It can display lists of task resident commands, assigns, ports and s on. You can also mess around quite a bit freezing tasks or removing interrupts for

The program uses MUI and it's extremel user-friendly as a result. All the information i displayed in neat little windows and opera tions can be performed at the click of a but ton. However, if you're not an MUI fan, virti ally all of Scout's features can be accessed via the shell

Scout also has an ARexx port with a impressive range of commands supported b the program. Apparently, it's even possible t use Scout as a TCP/IP service through AmiTCP v4.0 so that your machine is avail

able to other machines in a network. Whilst the information Scout can provid you with isn't necessarily going to be incred bly exciting, it should be extremely useful to

programmers, and control freaks will appre ciate the numerous options available.

PEPSI ALL OVER THE WORLD

Programmed by: An anonymous German bloke Available from: Roberta Smith DTP

In a bizarre Promoware move equalled only by a rather tragic McDonalds tie-in that's been doing the rounds, Pepsi Cola now features in an Amiga PD same.

Persi All Own The World is, in a word, parts. The thing is, it's so laughably poor that it's worth a look.

I might be missing something here because my command of German is not what it used to be, but the game seems to consist of five little subgames set in different countries dotted around the world. In a stunning example of racial stereotyping,

each place has its own wacky activity.

In Ireland your task is to collect fish as

hey saim downstream in Egypt you must juide a robed chappy across a river in dasis frogger style to a Pepsi Can machine on the far bank, and in Alaska (not a county in fact, but there you go...) you must kep catch old droping from burst pipelines. Quite what any of these weird gamelles has to do with Pepsi Cola is somethine a mystery, although the intro screens are plastered with logos and curious cateline livers can at least find out how Pepsi is written in Japanese.

The graphics are alright, I suppose, but that doesn't after the fact that what we have here are five simplistic and hopelessly inadequate examples of what can be achieved by determined people lacking the faintest glimmer of imagination or programming talent. Hysterical.

Usual where an interest of the control of the contr

ROSWELL DEMO AGA

Programmed by: NFA Available from: OnLine PD

Aliens have been visiting our planet for years. It's true — for years the American government have kept hidden numerous close encounters of the third kind. In fact, they may even have conducted top secret discussions with alien races. If we're to believe cetain people, that is.

The problem with believing such conspiracy theories is that they all seem so far titched, and they are extremely hard to prove. It must be said that the footage of the Roswell incident, which has received much publicity recently and featured in a Channel Four programme last year, has not helped things at all.

Now widely regarded as not being the wark of some imaginative con artist, the famous scenes of short, pot-bellied humanoids being studied by curious men in the costs are laughed at by many. If you've nerer seen any of the film, or you're just seen to get your hands on your very own thenty seconds of fuzzy black and white computerised footage, then it might be

worth getting hold of the Roswell demo. However, there's a distinct watch it once then consign it to the diskbox type feel about this, so don't expect anything stunning.





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Waaking South and the intermet by sperfect proof of that. The Value of the value of

could withstand a nuclear attack, but the teason it grew into such a world wide phenomena is the people using it. The engiusing AmiTCP. From everything I have heard reers who originally set up the military part and the number of letters we get through found they could chat and send messages the post, there are many people out there to each other, and slowly, as more computer having a lot of problems installing and using networks join this fledgling Internet, more AmiTCP. So I have decided to take my life in people gained access and so more people my hands and install AmiTCP from scratch. started communicating with each other. in the possibly vain hope that someone else From this the various 'services' that allow might gain some help from seeing what I did to get it up and running.

Before you can install AmiTCP for your internet provider you will need to use a standard comma package to dial up your account so you can logon and enter your password. To do this you will

ing a much more media trch essociment to explore. Until the surfer pack rears its head the only well supported way any Amiga owner, can get onto the Internet is

Mail for direct communication to other peo-

ple, newsgroups for widespread discussions

and debates. IRC for real time chat, FTP for

naking files publicly available and, most ecently, the World Wide Web allow-

NTERNET JARGON

A real problem with the Internet is the amount of largon it throws up. So before you even think of installing AmTICP there are a number of very important terms you need to understand that will relate to some very important pieces of information you will have, or should get, from you Internet provider.

unit tents you need to understand that will relate to some very important pieces of information you will have, or should get, from you internet provider. The best way to explain is to take a look at what the Amigo Computing account looks like. If you want to e-mail us our main e-mail address is officiacomy demonacouk. This can be split into, defiacomy demonacouk. This can be split into, a number of parts, each of whiches given a pame:

ber of parts, each of which is given a part
acomp node name
demon.co.uk domain name
acomp.demon.co.uk host name

comp is the detail name of our complication, to cold coldens. The edit gaste before this garma is retailed to the safety of the coldens and the safety and is not an about that allows and the bed gated to different male beyon. As you may have notified thereight and CSF and ACAS mall beyon, that have the same how a foreight as comp demonscens, but their malifar directed to accomp demonscens, but their malifar directed to the different name or the edifferent name and the coldens of the coldens of the computer is a second to the coldens of the natively than their tags that the computer is

mail box alias

connected. This is your domain name and usually refers to the internet profiteer you are using: accompanies could be the companies address of your machine and is balled the host name Quing installation the AmITC installes asks you to gate the loss to the AmITC installes asks you on part It you have understood the above you can see it is asking for your computer's node name, which in our case, it

Deadress is the numerical version of a machine's hostparme. This is made up of four 8-bit numbers sparafed by dots. Amigo Computing 8 P address is 158:152:101.200, and when you use acomp. demon.co.uk this gets translated by your Internet provider to 158.152.101.200 instead.

However, as people generally remember names better than numbers, host names are a human friendly alternative to IP address numbers. When installing AmitCP you will need to know at least two IP address, which are given to you by your

when modaling Anni-IP you will need to know at least two IP address, which are given to you by your inferned provider. The first is your own computers IP number which uniquely identifies you from every, other computer connected to the internet, so if someone sends you an e-mail it knows where to go. The other IP address you need is that of your Internet provider's severe, the computer you connect to that downloads e-mails and all the other internet, traff to your machine. Default gateway is where all the Internet traff you create is sent, and this machine then hopefull sends it is send in the control of the control o

Name servers are the machines that will redired your Internet net traffic to the correct destination Having named servers allows you to use the 'named version of IP addresses. The named server is used to work out what IP address should be used for anything you send out.

DIALER

The first brick wall I can stenight into when I first installed AmiTCP was that there is no provided way to actually dial up your Internet provider. Typically, when you first use AmiTCP you have to use a comms package such as Term or NComm to log onto your account. and then start AmiTCP. The problem here is that you then normally have to quit the comms package, and unless you have set up your modern not to drop the carrier it will

immediately link down - not very helpful. To get around this you either have to use one of the many ARexx dialler scripts - a little overwhelming to set up for my liking - or on this month's coverdisk there is a tiny tool called Dialer. This consists of the dialer device which should be capied into your DEVS drawer, and a text file called dialer0.config that needs to be edited to suit your own needs. You will need to add the correct Baud rate for your modem, your own Internet provider's phone number, and your login name and password. The protocol you will be using will be SLIP, and then you save the file to ENVARC. You should install dialler before installing AmiTCP as you will need to choose the dialer.device part way through installing



MAIL AND NEWS

This is where things start to become a little more trickier. The Internet started off being run on Unix machines, and the vast number of Internet providers use Unix machines which are very powerful and configurable but are incredibly complex. Unfortunately, a lot of the software for the Amiga has simply been ported over from Unix machines which means you have to create a lot of the files and directories found on Unix machines before you can use these programs.

MetaTool is a straight forward Mime To receive mail you need to install anatible mailer well worth considering a SMTPd service to AmiTCP This

stands for Simple Mail Transfer Protocol and was initially used for transferring files from one Unix box to another remote one. It is, however, perfect for mail and news purposes.

People just using the standard AmiTCP installer need to add a few things to make using mail and newsgroup programs much simpler. Firstly, you need to create a number of new directories in your AmiTCP drawer. Create a drawer called usr and in this drawer create four more drawers called mail, news, libs and spool. These will be used to store related files. Next you need to edit the Startnet script found in the AmiTCP:Bin drawer. To this you need to add the following lines, but you could, alternatively, add them to you user-startup:

SEARCH ENGINES

DEMON USERS

Demon is one of the largest Internet providers in the UK and provide support, if limited, for Amiga users. This comes in two forms -when you first join they give you a single install disk that will set up AmigaNOS so you can FTP, e-mail and use newsgroups. Unfortunately, as AmigaNOS is not supported by anyone else you are stuck with these original programs and you really do need to upgrade to AmiTCP, Unofficially, Demon

provide an AmiTCP installer that gives you major advantages over the original AmiTO installer. Even though the installer is aime specifically for Demon users. I would advise anyone who is on the Internet, or is struggling to get AmiTCP to work properly but can ftp. to get this installer

You need to FTP to ftp.demon.co.uk and go into the /pub/amiga/installer/tcp diredory and get the AmiTCP4 DIS95 v3.lba

NSTALLING AMITCP

This is where the fun begins, If you understand what the various parts of your host name are and you have your computer and your Internet provider's IP address, actually installing AmiTCP should not be a problem. With all this information at hand, double-click the AmiTCP installer icon and away you go. I am assuming you are a home user connecting over your phone line using a modem with the normal Amiga serial port to your Internet provider. For comparison the Amiga Computing details are as

edit

user name node name domain name host name IP address

acomo demon.co.uk acomp.demon.co.uk Demon IP address 158.152.1.65

You need to create an AmiTCP drawer, usually on the root of you Work directory, where all the AmiTCP files can live update the Sana II devices

install the new fonts, if you want enter your user name - acomp login name, anything you want - acomp proceed past user and group id numbers enter proper name, anything you want - Amiga Computing

select root directory, why not the AmiTCP drawer click proceed on shell

add your user, enter password - just hit return to leave this blank (I am assuming you do not have a dynamic connection so select no)

enter the host name of your computer not including the (Our host name is acomp.demon.co.uk, AmiTCP only wants your computers node name so for us this is 'acomp')

enter domain part of your address - ours is 'demon.co.uk' enter alias, this allows shorter versions when fingering acomp =

acomp.demon.co.uk select slip/cslip select rhslip

enter slip IP address - this is your computer's IP address, ours is 158.152.101.200

enter default gateway IP address - for us demon i 158.152.1.65 skip netmask - not necessary

double check IP addresses

select slip device

(if you have copied the dialer.device select this from the list, otherwise select the serial device) pick unit 0 choose modem speed - for a fast machine this is up to

57600, otherwise use 19200 or 38400. If you have problems when connecting you may have to reduce the choose Maximum Transfer Unit (MTU) - your Intern

provider should tell you this otherwise stick with the default value of 1006 select hardware handshaking

double check slip configuration

now you would normally re-enter default gateway address then enter the IP address of any other name servers that you could connect to, your Internet provid will tell you enter domain names to search - ours are demon.co.u co.uk, and uk

don't bother starting AmiTCP

```
assign MIL: INet-
assign >MIL: uumail:
                            edit
                                                      (main mail name)
                                                      (your Node name)
                            arnen desen co.uk
                            arnen danne en ak
```

Amiga Computing Next you need to get hold of the AmiTCPsmtpd.lha file from Aminet. Once you have unpacked it, copy the rMail into the AmiTCP bin drawer, and copy the file insmtpd to the sery drawer. You now need to add this line anywhere in the AmiTCP:db/inetd.conf file.

```
tcp newsit root amitco:serv/in.seted
```

This will then allow AmiTCP to access this new service, so allowing you to receive new e-mails that will then be placed in the correct mail box in the uumail: directory. You then need to create a file called config in the AmiTCP:usr/lib drawer. You should, of course, replace the entries with your own relevant data

RMail

UserName RealName Amiga Computing NodeName acomp MortMamo acomp.demon.co.uk DomainName demon co uk Organization amigacomp TimeZone GMT DefaultNode gate.demon.co.uk (change to your default server) NNTPServer news.demon.co.uk (change to your news server)

Once these files have been setup you will be able to receive e-mails and news from newsgroups. You should be able to use most mail programs straight off as many use these directories and variables as standard. Metatool would be a good starting choice.

amitcp:bin/rmail

The big advantage for Demon users, or if you decide to use the Demon installer, is that all these files are already set up for you, therefore saving you an awful lot of time. Also, the installer program is far more straightforward and uses plain English to describe what information you are meant to enter next. All in all it took me two days to get AmiTCP up and running, after which I could safely use AmFTP, AmIR C and iBrowse. It then took a further day to work out why Newsgroups were not working

archive. For Demon users the installation will set everything up perfectly so you will be able to use e-mail and newsgroups along with all the other normal services.

seteny DOMATAWANS

Non-Demon users will have to alter a number of files to make sure everything is set up correctly. Unfortunately, there is not enough room to specify exactly what you have to change, but you should use a text editor to check the entries in the following files:

(your name)

AmiTCP:bin/startnet - sets up lots of important variable AmiTCP:bin/link - change mail server

address, remove the db/linkmacro line, do this anyovay

AmiTCP:db/resolv.conf - change name server IP address to your own AmiTCP:usr/lib/config - change default and news servers to your own

The advantage of using the Demon installer is that it sets up e-mail retrieval and sending that you will otherwise have to do by hand, and this is easier said than done. Included with the Demon installer is a very nice mail kicker that handles e-mail and does not seem to be available any where else.

select add to user-startup select start iNetd

Now, theoretically, if you open a shell and type Startnet, AmiTCP will startup, dial your Internet provider, and you should then be on-line. If you have made any mistakes during installation this is where they will show up.

If the dial script fails to connect you to the Internet provider then check it is dialling the correct number. If it is connecting and then failing, check you have entered the correct baud rate for your modem - it could be too fast - or perhaps you have entered the wrong login name or password. If you manage to successfully connect to your

Internet provider, the only main reason for things not working at this stage is that you may have entered the wrong IP address of either your own machine, the default server address, or possibly of the other named servers. You should carefully check the Aminet:bin/Startnet file, and also the Aminet: db/resolv conf file

The easiest way to check if everything is working correctly is to use the Ping and Finger commands. These allow you to find out a number of things. Ping is used to show you how fast a connection you have

to another site, while if you Finger another person you can find out more about them - just like in real life. You Ping sites and Finger users, so you could trying pinging src.doc.ic.ac.uk and fingering wizards@doc.ic.gc.uk to see if you are connected no response is a bad sign.

Once everything is up and running the first thing you want to do is get vourself a decent FTP client program. The shell based one that comes with AmiTCP is called ncftp and is very good as far as any shell program can be, but if you have a GUI you want to use GUI programs.

Currently, in my opinion, the best FTP program is AmFTP, and to get this you will need to ftp to one of the Aminet sites. For UK users, src.doc.ic.ac.uk is the best site to go for, and US users should try ftp.netnet.net. To ftp open a shell type the following:

> open -a src.doc.ic.ac.uk cd aminet/comm/tco get AmfTP153.lbs ram:AmfTP.lbs

get AmiRC10. the ram: AmiRC. the

If you do not have MUI, you will find it on this month's coverdisk, and you will need to get this as well:

get mui33usr.lha <destination file> Once you have all of these you can type StopNet to

link down. Extract the archives and install AmFTP and AmIRC to your AmiTCP directory, or wherever you wish. You will also need to install MUI at this point as well, if you do not have it already. If you have ToolManager you may want to create a new AmiTCP dock, with StartNet, StopNet, AmFTP and AmIRC set up to run from it. This will remove the need for you to use the shell quite so much.

If you now want to get hold of a Web browser, link back up and start AmFTP. In AmFTP, add a new ftp server called Omnipresence and use this address, ftp.omnipresence.com, and you can add the directory /pub/amiga/ibrowse. Once you are connected you should download the latest version of the iBrowse demo. Extract this archive and drag the drawer into your AmiTCP drawer.

You can now start Web browsing straight away by double-clicking on the iBrowse icon. You now have working FTP, IRC and Web browsing programs.

WEB SURFING

Currently, the part of the Internet that has the highest profile is the World Wide Web. As it is the most recent addition to the Internet it has taken advantage of faster network connections and more powerful computers by having a much more media rich environment, allowing Web pages to be splattered with graphics and text. Introduced back in 1990 by CERN scientists who wanted a better way to share information between themselves, the number of Web sites out there has exploded. with now literally millions and millions of pages covering every aspect of human

behaviour for you to look at. The Web works by using a special lanauage that is used to 'describe' how a Web page should look. Your Web browser reads this description and does its best to produce the page. This language is called HTML, or Hyper Text Markup Language. When this was first invented by the people at CERN it was very basic, allowing simple textual links between pages and basic positioning of images on these pages.

HTML is now in its third revision, with many of the new commands being introduced by the now very rich NetScape people. More recent versions of the language allow better text and graphic formatting. and all manner of gadgets can be added to pages allowing users to interact with



Web pages. The latest version of HTML allows complex tables to be defined, giving Web designers even greater flexibility in how their pages should gonear. The latest addition to HTML are frames which allow you to add mini Web pages that act like menus to the main Web page display, giving the user short cuts to the various parts of your Web site. Unfortunately, no Amiga Web browser supports frames but they are not too far

Currently available for Amiga Web browsing is AMosgic and the much superior iBrowse. Both are available via anonymous FTP from ftp.omnipresence.com in the pub/amiga directory. iBrowse is planned to be a commercial browser and only demo versions of it are available for you to use these will normally stop working after 30 days of use. This will then leave you with only AMosaic to play with, which is a great deal slower and is not as stable in use.

LOOKING GOOD

Things are looking up on the Amiga Web browser side of things as, currently, I know of 10 projects. Along with AMosgic, iBrowse and Mind Walker all of which are MUI-based browsers, there is AWeb, Hyperion, Juggler, Step 4 Web Link Al vnv and P'lami The last is the most interesting of the lot as it is actually part of a larger project involved with

port Sun Systems Java object-oriente programming language for the Amiga.

The biggest problem with the Web is tre ing to find pages that are of interest to you This is where search engines come in which are sites where catalogues of almost even Web site are held. Through forms you can search for keywords, such as Amiga, After of short wait the search engine will create of set of new Web pages with lists of relevan or not so relevant, links. Generally, you hope to find a link to someone's home page that is dedicated to whatever subject you were looking for

One of the best general interest sites i Yahao which gathers and maintains a large collection of the most recent and up-to-date sites, organised into relevant sections. So it you want to find a site about the comedshow Friends you go to the Entertainment/TV section. From there you can either search the entire TV section or as through the shows, comedies, friends links and you will find a very large list of Friends links, many of which seem to sport lots of Courteney Cox pictures.

The Web is a great place to find out of sorts of information, and as the contents of the World Wide Web is just a reflection of the type of people who place home pages on it, you are bound to find something of

MIGA SITES

http://www.amiga.de - home of Amiga Technologies, first place to get any new news http://www.cucug.org/amiga.html - home of the Web directory. The place to find new Amiga links

http://www.omnipresence.com/amiga/ - the original Amiga home page, home of iBrowse and AMosaic

http://www.bangor.ac.uk/~eeu013/walker.html - want to see the new Amiga, find out all about it here

http://www.idg.co.uk/amigacomp/ - it's our home page, due to a bug in iBrowse 4a you need to turn off the internal image decoder





At best AMosaic is usable, it does the job but the lack of any updates has left AMosaic seemingly stuck in the development quagmin

TPING

The quickest way of getting hold of files on the Internet is through FTP which stands for File Transfer Protocol and allows you to access remote computers as if they were a drive on your own computer using what is known as a FTP client.

with compensation was seen as seen as a seen a

It is more than filted that the first FTP program you use is a Shell-based one that comes with AmiltOP, called notipe. As far as Shell flap programs go it is very good, but you will quickly want to get hold of a Gul-based program. Currently, AmFTP is probably the best available one for the Amiga, but you will need MUI to use it. A good none MUI alternative is GUI-TTP which uses normal Amiaes asderst.

One of the major uses of an TPI client for the Arriags user is to access Arminet sites. Armine uses truly a good number of years ago, burgin run on an ASOO, and was quickly transferred to a University site. The main site is now run from Wausrchine in America, and holds a nideolously large amount of America related tools, utilities, privileus, modules, revenue, and magazines. Current internet goes may have noticed recently that Wausrche has actually not expense of the contract of the contra



RCING

IRC is a very buoyant part of the Internet because it allows people to talk to each other Tive', as it were, no matter where they are. As with FTP, to use IRC you need an IRC client, and from this you link to your particular IRC server. Once on you can choose to join one of the thousands of different chat groups that are known as channels.

Before you can get on IRC you have to give yourself a unique nickname that everyone on the channel can refer to you by, It does not particularly matter what it is, but if you join a channel regularly you will

particularly matter what it is, but it you join a channel regularly you will start to recognise other regular users through their own nick names. All the chat channels on IRC start with # and the standard Amiga channel is, surprise surprise, #Amiga, All IRC commands start with / so to join the Amiga channel you type: //oin #Amiga. Once you have joined, if you want to say anything just type away and every time you

hit return everyone can read what you have just saw.

On IRC you are not just restricted to plain old public chat, you can talk direct to other IRCses either using the /mgs mgs <a href=mgs mgs <a href=mgs <a href=mgs <

transfer to be too speedy.

A constant pain for IRCes are net splits, and when one happens contain users seen to disappens from the current channel. Depending other was more interested to the red split on the pain of the country of the pain of th

There is little IRC esiquette needed, but generally it is more a matter of common sense, like not going onto the Amiga channel and continuously saying how greet PCs are and how subbitsh Amiga are because you will simply get kicked off by one of the rhannel ops. Channel ops are users with more privileges than normal which allows them to kick people off the current channel and even put a jermanent ban on them.

Another use for IRC is that you can create new channels whenever you like by joining a non-existent channel. This allows specially organised conferences to be arranged, or you could just create one to have a private chat with someone else.



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*Equally important, the Little Gem has very low noise levels (in fact it's as good as some mixers costing Rating 9/10 - Amiga Computing.

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Due to the competition between Final Writer and Wordworth, both programs have seen many new features added, so the resources needed to run them has grown along with the programs. This has reached the point where a basic A1200 is not enough, so a cut-down version of the original program is a superb idea because owners of unexpanded A1200s can still use these excellent programs.

MPORTANT FEATURES final Writer lite is basically the same as the original program, but with the most important features remaining. This is not as bad as it may sound because virtually all the original features make it into the lite version intact. You get all the recent changes to Final Writer 4's interface, including the addition of the click tabs that allowed all the menus to be reorganised into a much clearer order, with all the preference options being moved into their own specific requesters. The click tabs are also used in the main window to allow you to quickly jump between different pages and document sections, making document

navigation much quicker. The omissions that have been made are kept to a minimum. The first two, and probably the ones you would expect, are the grammar checker and all the ARexx functions. Leaving out the grammar checker is not much of a surprise as it is very large - over a megabyte - and the ARexx port is probably used by only a small percentage of users, so no great loss there.

Type and spell has gone, even though the normal Collins dictionary and thesaurus amain untouched. It is also impossible now to import EPS images. The postscript library used to handle the EPS images was large, and displaying EPS images is quite processor intensive so this is understandable. If you have EPS images this is quite a disadvantage as there are not too many programs that will allow you to convert an EPS to an IFF image. which is the only format Final Writer will

One thing you do lose that is not part of the program as such is all the extra fonts and

Fantasti

Usually not too keen to have his vital parts removed, Neil Mohr sees if Final Writer lite has suffered at all



C There is

nothing stor

you creating

documents

version

even in this lite

clipart you get with the full version of Final Writer. This will limit you to the supplied three fonts, even though you can use any Compugraphic or Postscript fonts you have

Out of all the omissions I would find the loss of the group function the most annoying. If you want to create any diagrams in Final Writer this is used a lot to collect objects together to allow you to treat them as a single image. It makes it quite easy to quickly knock up complex diagrams that you can then resize

and place in your documents. The loss of the group function also means that if you import a Final Writer document that has grouped objects, the lite version will simply treat it as a single graphic object, so you will be unable to modify this except for being able to resize it.

For the money you are paying, Final Writer lite is superb value. The features that have been removed are not essential - practically speaking, the only two that could cause you problems are the loss of the group functions and the inability to import EPS graphics, but if you are only planning to do letters, faxes or straightforward essays the functions that remain are more than enough. All Final Writer's text formatting functions remain untouched, and as long as you don't want to do any fancy diagrams with the structured drawing tools, you will be able to use all Final Writer's drawing tools to the full

For people with a limited budget who need a page processor that will work on a low specification machine, Final Writer lite provides everything you need.



REQUIREMEN



Overall



PRODUCT DETAILS

Product	Final Writer Lite
Supplier	Gordon Harwood
Price	£39.95
Tel	01773 521606

SCORES Ease of use 9396 Implementation Value For Money 96%

RAPHIC OBJECTS Anything in Final Writer that is not text is treated as a graphic object. One thing that makes Final Writer so easy to use is that whatever type of object you are manipulating, you always use the

same functions on every one. Once an object has been created you can move, resize, rotate. cut, copy, paste and add text flow to any graphic object. The outline

to these objects can be changed, and for precise positioning you can enter co-ordinates directly.



Even in the lite version, Final Writer's gra les are very impressive

t might seem like a pretty heavy-handed standfirst for this review, but the truth of the matter is that, notwithstanding its shortcomings (more on which later). MacroForm is one of those tools that turns your stumbling attempts with the modeller into stone in an expert sculptors' hands. But unlike a sculptor's stone, MacroForm gives you the chance to rectify and refine your mistakes until you get the result you were looking for.

It does this through a method called 'apply modes'. These use control curves in one layer to affect your polygons (in another layer), but the great thing is that if that curve is just too tight for your polygons, or if it doesn't fit your requirements properly, all you have to do is reform the curve into the shape you want and then hit apply once more. This will reform your polygons around the new curve's shape ad infinitum, and if you decide that you didn't want to deform your polygons after all, you always have the reset command to bring everything back to its starting point.

The best thing about this constant mutation of your curve is the fact that you can save off its results and carry on going. The hair on the model I have created for this review is an example of this. I started with a triangular polygon which I extruded. Then, using the RailBend tool I bent the control curve until I was happy with the Habit forming Ben Vost examines

status from **amateur** to

MacroForm and changes his

BLUE CHIP A W A R D

shape of it and then applied it to the extruded triangles. The first few attempts at this resulted in curves that were too sharp for the extrusion to cope with, resulting in doubled back polygons, but with the Apply mode set, this was no problem – simply shift the curve and try again.

Once I had a bendy set of polygons I was happy with, I saved off the resulting object as 'Hair', continued to reform the control curve and applied it to the polygons resulting in different bends to the hair. The more astute of you will already be thinking that this tool is ideal for making morph targets and you wouldn't be wrong. Best of all is the fact that RailBend is only one of .2 similar tools, all of which use a curve as a control surface.

It will take time to learn to use Macroform to its full advantage, but what a tool. Even with the shortcomings mentioned, this piece of software drags LightWave's Modeler kicking and screaming into the late '90s.

S OMETHING'S ROTTEN IN THE STATE OF DENMARK...

While I have painted a very rosy picture of MacroForm, all is not well if you try to use it under the following conditions:

First), Microform is really designed for LightNew 3.5. It was partially with version 3.1 for any of put with an un-upproded Traster-ROOD, but any functions which require the hiding of polygous will fail only to the fact that his version of LightNew Connet hide polygons. Users of the new LightWave AOD will also be disappointed in uniformly manufact depending on whether they get MicroForm to work. I had no juy, but CAO Media tell me they have users successfully using MacroForm with 4.

However, owing to a bug in Modeler, Affects marces nu anytwhere between the and nevery times shown than they do in 3.5. a problem Never Tell Never Never Institute of the 1.5. a problem Never Tell Never Never Institute of the 1.5. a problem Never Institute of the 1.5. a version of Motorchim which will crimment these problems and will be available as an upgrade for registered users of Macardemis, Secondly, those of you with a need for speed or agoing to be very disappointed Secouse the Affects compiler that the latent used to second the second of your with a need for speed or agoing to be very disappointed Secouse the Affects compiler than the latent used resolved once. Macardem Seconse a plug in 1. still believe

MacroForm to be worth the money, even if you have to switch back

HOSE RAILTOOLZ IN FULL



This is the main interface for the RailToolz

RailBend — this tool allows you to use a curve to bend your polygons to fit it. You can bend your polygons in two dimensions or three, giving the maximum possible flexible. It, With Align mode turned on, you don't even have to worry about lining up your polygon correctly for the curves, as RailTool; will do that too.

SmartRail – this is the first of the extrude functions that RailTools provides. Like RailBead it can automatically match you polygon to the curve. You can specifi whether you want to centre the polygon at the curve or let it estrude with an offset. Ether way, you won't end up with the dree ded squished box syndrome. SmartRail wit even create a circular or rectangular poly gon to estrude for those modellers too last to even do this.

RailForm – this bungs a curve around you model which you can deform. Depending or what settings you choose, your model is then made to fit this curve. This tool is area

to 030 mode to use it.

THER MACROFORM MACROS



1) The plus and minus signs indicate centering your object on one side or the other of the axi

In addition to the celebrated RailToolz set of macros. MacroForm also comes with six other nacros, and the tutorials macro which makes use of all the macros by showing you how to use them. The first, KeyMaster, is a bit like the configure keys tool in the Macro or Custom menu in Modeler, with the added benefit of



O Dimensions can scale your data to other date, or just a fixed size

being able to load and save different configurations. Align & Center takes the Center1D and Center macros one step further by allowing the user to centre models based on the lavout of models in a background layer, or simply on the axis of your choice. You can also arrange data so that the left edge of your model is aligned to the right edge of another model, etc. and even resize data to match.

Dimensions is very powerful and allows you to rescale a set of objects according to the scale of another set. The example given in the tutorial relating to this macro has a house model in the background and a table with a lamp and ruler on it in the foreground, all of which are grossly out of scale with the house. Because you know the ruler has to be a foot long, it means you can scale the other data in the layer accordingly and thus table, lamp and



dimensions, and the angle, between two points. If you only have one point selected,

then the distance and angle displayed is that

number of ways, not limited solely to rectangu-

lar, and NewBox will create a cube object. Not much use? Ah. ves. but it will give you a rounded corner box if you so desire, just like the

ones in the example texture scene that comes

between the point and the origin. Slice & Dice will slice up any object in a

with LightWave

C A real boon for modellers used to working in CAD programs. Distances & Angles tells you all you need to know about any two points on the same laver

Distance & Angles gives you the very handy ability to tell the exact distance in all three



O Slice & Dice heats the pants off the tollegge mare as you can see to the right



	-line
	REMENTS
D essential	BLACK recommended

agintered E	gilltrave o.o	
Product	DETAILS	
roduct	MacroForm	
upplier	Activa UK	
nico	£315 (£170)	

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Ease of use	809
Implementation	959
Value For Money	959
Overall	909

for creating organic models that standalone, but proves to be one of the less-. useful tools in practice.

RailLength - a tool tool, really, RailLength will return the true 3D length of a curve and allow you to modify it. This comes in very handy when you are creating a model out of a range of parts that need to be fitted together because you can use it to make sure all your curves are precisely the same length, or ft to a desired area. RailLenath can determine the length of closed or open curves.

RailMold - a bit like RailBend with a maanet. Because curves can double back on themselves, RailMold offers two methods for dealing with this - smoothing and smoothing with tacking. Smoothing ensures that no polygons double back on themselves, forming ualy lines, and smoothing with tacking allows you to deform your object as though it has been fastened to something at the points of least deformation in the curves you use Try it, it's easier to see than explain!

RailOffset - this tool creates a polygon with a curve. All you need do is specify a width and how you want the ends to look. Using a control curve with this tool will result in a polygon with an outline like your control curve being extruded along the path of your apply curve. I know this doesn't make much sense, but you'll just have to try it.

RebuildRail - another tool tool, this one reconstructs curves that have been built in the wrong order for use with the other RailToolz. You can also increase or decrease the number of knots on a curve using RebuildRail, making it useful for reducing complexity in your models.

RailRout - this provides a service like a mixture of repeated bevelling and lathing. but unlike lathing can work on rectangular objects. It works by using a router to provide a 'path' for the extrusion to follow. The router hits can be saved off for future use and MacroForm comes with a number of presets for things like buttons and rounded edges.

RailScale - this squeezes your models in a similar way to RailForm and has a wrap option that behaves a bit like the Modeler's spherize tool, but wraps your shape to the curve or curves instead of a ball.

RailSlice - this tool slices your object using the points on a curve to determine where the slices will fall. You can use RoilSlice with a few options to mimic the drill, tunnel, core and slice modes from Solid Drill and Roolean tools in Madalar

RailStretch - this uses a curve to stretch your model and deform it. It can pull polygons out of line in much the same way as the magnet tool and, as with most of MacroForm's tools really needs to be experimented with to find a use for.

RailTwist - this is the last of the RailToolz and twists your object about a chosen axis. The degree of twist depends on the curvature of your apply curve and is ideal for making cloth and other similar types of object.



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Operation Eyes down as database

Part 2

Paul Oversa delivers more details of his database project

his month we're going to begin looking at the EasyBaseAC which means we need to start with a few of the coding conventions I tend to use. I prefix all global variable names with g (as in g port mask) and all static variables, i.e. those items that act like global variables but are only visible' within the module in which they are defined, using s . I also usually add a p suffix to variables which represent pointers, although there are occasions, such as variables

used to hold function addresses where I choose not to do this. Variable names are always lowercase, with individual words using underscores. Wherever practical I use names that mean something so when, for example, you see the variable

g public screen p in my code you are left in little doubt that this is a global variable which is a pointer to a public Such conventions have but one purpose - to

make life easier for both myself and anyone else who may need to examine my code. In the main I do try to stick to my own guidelines but not to the point where adherence becomes counter-productive. You'll find me using i, j, k etc., for loop variables just like other programmers. Similarly, there are times where fully explicit variable names end up too long to be practical - so shortened names have to be used. In short the guidelines I adopt are just that - guidelines, not rigid restrictions!



O You'll see later that all other program windows use the same allocation:

WINDOW SPECIFIC ALLOCATIONS AND DEALLOCATIONS

Some operations, like the opening of libraries that many modules within a program are likely to need, are best done as the program starts up. Other things, such as the resources needed for individual windows within EasyBaseAC, are best obtained as and when required.

At the moment EasyBaseAC has a main controlling module, an always-present main window with a scrolling (listview) gadget, an editing window, and a display only window. What we need to do, of course, is isolate the opening/closedown operations required, yet still keep those operations under the umbrella of our generalised allocation/ deallocation framework

Each window therefore allocates its own stack and reads its own array definition of the things that need to be done, as it opens. Similarly, as a window closes the window module code performs its own set of deallocations to ensure it closes down in a proper fashion

To do this I use a stack ADT (abstract data

type) module. You don't need to worry about how this operates internally (that's a story for another time), all you need to know is that by including a stack adt.h header file in each source that requires stack facilities, and linking the stack adt o module into the final program, the access routines shown in listing 2 become available

for use The benefit of this approach is simply that because each window takes responsibility for its own resource handling, other parts of the program never need to worry about what resources are being allo-

When the user finally signals that they want to guit EasyBaseAC, all the main controlling code needs to do is check to see which windows are open and call their respective close routines

Each open window then carries out its own deallocations independently (you'll see more of these ideas in subsequent window handling code)!

18	
BATTE Openis	at/anid)
sour shear	11(3010)
UBITE error.	number=ND_ERROR;
	ionBase=(struct Intuit(onBase *)
	Open!ibrary("intuition.library",INTUITION_VERSION))) error_number=ALLOCATION_ERROR;
else (
	g_function1=floseInt; PushStack(g_resource_stack_p,g_function1);
	,
return(error	_number);
1	
void Closels	
	ht(void)

CloseLibrary((struct Library *)IntuitionBase); C Listing 1: Intuition library opening and closing with stack based resource tracking

s=CreateStack(t) this initializes a stack suitable for storing items of type t specified by the applications program and returns a pointer's to the stack's descriptor.

this stores item x on stack s and returns an error flag e that is TRUE if an error has occurred.

e=PopStack(s,x) this retrieves an item from stack s and places it in variable x. Errors are signified by the returned error flag e being TRUE.

KillStack(s) this unloads and then removes the stack s from the list of currently defined stacks. No return value

f=StackEmpty(s) this tests stack s to see if it is empty and returns a flag f as TRUE if there are no items on the stack.



ALLOCATION AND DEALLOCATION

From time to time in my assembler columns etc. I've talked about my stack-based schemes used to handle allocation and deallocation operations. Now you are going to get the chance to see how I do it from C when several different code modules are in use. Stacks. of course, store things on a last in first out basis and what my scheme does is ensure that ANY routine which successfully allocates or opens some returnable or closeable system resource pushes the address of a corresponding closedown routine onto a stack.

To allow for allocation failures as the program runs, I adopt the convention of having all allocation routines return error numbers that indicate whether they've succeeded or not. Providing these conventions are followed, a program is able to perform its closedown operations by using a loop to pull those deallocation routine pointers from the stack and executing the corresponding routines. The beauty of this approach is that the stack automatically deallocates things in the reverse order to the original allocations - things which are allocated last get deallocated first (a good, safe, general method to adopt with all Amiga programs).

How do I set up the allocation/de-allocation code and get the right pieces of code executed at the appropriate times? The best idea is to look at some example fragments. Listing I shows two routines which open and close the Intuition library. Notice that the

first routine uses a PusiStack() function in conjunction with a global variable called g function. Cother allocation routines similarly add the addresses of their closedown routines to the stack, so it ends up holding pointers to all the deallocation/closedown routines that need to be performed to 'undo' the original allocations. Irrespective of the number of routines present on the resource stack, the complete deal-location/closedown procedure can always be carried out with this simple line of code.

hile!!PopStack(g_resource_stack_o,

The loop removes a pointer to a deallocation routine and then executes that function. It does this continually until the stack is empty.

For the initial allocations I set up a controller array which contains pointers to the allocation routines to be performed. The array is used in conjunction with loop code which reads the pointer list and duly executes the corresponding routines (see listing 3). Here's the array from the displayonly window code that you'll find on disk this month:

fdefine W3_COUNT 6
UBTE (*W3_List[)(void) = {
 CreateiadgetContext3,
 CreateiadgetS,
 CreateiadgetS,
 CreateiadgetS,
 CreateiadgetS,
 CreateiadgetS,
 CreateiadgetS,
 CreateiadgetS,
 InstallRend3,
 InstallRend3

A NOTHER C TRICK

When programs involve many different modules and headers, defining and declaring variables gets quite involved. One program module can use variables defined in other modules providing feature references are included in the module wishing to use them (to let the compiler know that the variables are declared elsewhere). Variables must of course, be declared normally in just one file (so that memory can be allocated for storage).

There is a tifdef C pre-processor trick that lets you use the same header file for both declaring and externally referencing a set of variables. The fragment shown in listing 4 comes from the EasyBaseAC general.h file that contains the names of the include file program definitions, record structures an global variables used in the program.

global variances used in the program. The important point as far as the global are concerned is that the general. In head will only generate the extern reference ALLOCATE_GLOBALS is NOT defined. By defining this value at the start of just one of the file modules, all the necessary variable are declared and all other modules are declared and all other modules are declared as the start of just one of the property of the property

need.

The result? A single file serves both deduration and external referencing purpose and this makes for substantially easier filmaintenance!

/* part of general.h */ #ifdef ALLOCATE_GLOBALS

PREFIX struct GfxBase

#define PREFIX

#define PREFIX extern
#endif
PREFIX void (*g_function1)();
PREFIX struct Intuition@ase *Intuition@ase;

∩ Listing 4: A useful header file



Although DICE C is being used to handle the compilation and maintenance of the project, \$A5's se editor is being used to

Now It's Your TURN

which identifies the includes, constants and globals used by the current version of EaysBaseAC. The provided it this month just to let you see the extern prefix angements in action. You'll also find a file called window3.c which is the code for the EaysBaseAC display-only window and this provides a nice seys start to my window moves and the provides an ince seys start to my window and the provides an ince seys start to my window moves and paget file. and resource stark pointers are all defined as static, so they're hidden completely from other modules of the proligam.

You'll find one file on disk called general.h

My OpenWindow30 function, near the start of the source, performs to one allocations and logs itself on as being open by setting a copy of its signal bit in a global juhalder_sightli] array. When the CloseWindow30 routine is called the window module their deallocates the resource it was using and clears the appropriate is was using and clears the appropriate and bit copy. Clord worp too much about the signal stuff at the moment, i'll be dealing with this was later.)

The various window/menu and gadget creation routines are based on the allocation/deallocation approach discussed in this issue. Most of the remaining code is straightforward Intuition/gadtool event handling. If, whilst the window is active, a

message occurs it gets queued up at the window's user port. The event handler look at the message and, depending on the message class, either does something with it, or passes the details to another routine. Record information in memory is held in

accord institution of the institution for institution of the instituti

The window 3 module does, of coars check that its window is open before eithe displaying anything or clearing its gadges How? It looks at the s, window, p vaniable see that it is non-NULL (which indicates the the window is open). The CloseWindow3, outline, inicideatally, always clears this port or whenever the window is closed. Examine the code, get a feel for the overell arrange ments, and I'll give you more of the ston ext month!

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ello? We're looking to do a feature on SCSI and IDE hard drives Yes, that's right. No, we really want drives between 500Mb and a gig. What? Nothing less than a gig you say? Oh alright then, send us what you've got." And that's just how it was. We rang up a variety of companies and the smallest drive we could find was 640Mb, and it was the

So all the 340, 500 and 730Mb drives you see advertised are almost certainly the last ones you'll eyer see new, and with prices coming down all the time for 1Gb and above drives, it might be worth the extra few bob to get one of those instead. The first drive I ever owned for my Amiga was a Quantum L120S drive which came to me in a box that was labelled 'For military use only'. I never found out whether this was just a spare bit of packing, or whether I ought to dress in combat fatigues to use it, but it performed beautifully and made a huge difference to my computing.

APACITY Nowadays, I have nearly 2Gb of hard drive space, and I'm still running out and, all told, it's cost me only slightly more than that venerable 120Mb drive. Unfortunately for us Amiga users, doubling my hard drive capacity is about as far as I can go because of the handy little thing that allows me to shift my drive to someone else's hard drive controller - the RDB. The RDB (or Rigid Disk Block) is a 32-bit number at the start of a hard drive that tells the host computer what size it is. how many partitions it is, and so on. But why can you only have about 4Gb of hard drive space on your machine (should you ever be lucky enough to get that kind of space)? Well, what size was that number again? 32-bit, right. Well a 32-bit number only has 4.294.967.296 combinations and that equates to about 4.3Gb or, to be more precise, 4,294,967,296 bytes

At the time the RDB was conceived, this was a staggering amount of hard drive space, and it was inconceivable that anyone would ever need that much room. At the time, my 120Mb drive was actually quite large. But as is ever the case with computer technology, saying 'Ooh, no-one will ever need, or be able to afford, 4.3Gb of hard drive space, a 32-bit number will be plenty', is almost a guarantee that hard drive prices will plummet and sizes will expand exponentially. And thus it was. Still, owners of VLab Motions. PARs, DB32s, AD516s and Toccata cards, etc. reedn't worry about exceeding this 4.3Gb limit as their cards don't use AmigaDOS-formatted hard drives and are thus exempt from the limit for the hard drives they use on those rands On platforms that don't have this limita-

tion you can get things called RAIDs (Rapid Array of Inexpensive Disks), which are basically boxes filled to the brim with hard drives of around the 1Gb mark typically which all act together as one big, very fast, hard drive. The reason RAIDs are so fast is that you are increasing the number of heads looking for the information on the disks, and because you are only using smaller hard drives in the

driving RAID, the whole thing usually costs less than Hard

trying to buy one big drive. The other advantage you have is that if that one big drive had a problem, you would be in deep shtuck, but if one of the drives in a RAID goes belly up, sure, you'll lose some data, but at least you'll still have the other drives up and running.

IZE VS SPEED On a similar point, do you know why large

hard drives are faster than smaller ones? No. well the reason for this is because on a 3.5" drive, a 1Gb drive has less space between the sectors and tracks for the head to skip across than on a 120Mb drive, and this means a faster access time, even though the drive can hold more data and thus, theoretically, there is more data to look through

before the desired data is found. So, anyway, onto the drives themselves. We have a mix of IDE and SCSI drives (just the two SCSI drives actually) from a variety of

drives, hard drives, everywhere and not one under a gig. Frank Nord investigates a worrying trend in hard drive size

> manufacturers. All the drives are 3.5" devices and are larger than 1Gb (apart from the Quantum at 640Mb), because that's what the manufacturers want us to show. If you can't afford one of these drives at the moment, well, there's not much you can do, only have to wait a while.

S FITING IDE DRIVES UP

Bocause you can only house two IDF drives on a controller you'd think the configuration would be even easier than for a SCSI drive, but there are more possibilities than you might imagine. You've got Master, Slave and Master with Slave present. These different modes represent the different ways of setting up one or two IDE drives on a machine, but quite often you'll need to change several jumpers to make it so

Fortunately, IDE drive manufacturers have started to try

to cut out the Master with Slave present option so you only have to fiddle with one set of jumpers. In fact, the only drive that gave us a problem for setting up was the skinny Segagte, I had set the Segggte that came with our A4000 as a Slave drive so that I hopefully wouldn't have to change anything on the other drives, but the Seagate we reviewed had to have its jumpers changed. All very well, but the chart showing how the jumpers had to be set was

T HOSE BENCHMARKS

from RAMI. As a last test we also used the continue of (6, 2, 23) to check the speed of the drive. As we so by now, Systinfo's results can be very misleading door screenmode, etc. so here is our system set-up in fu

We have an A4000/04 with 18Mb of RAM. We ran all tests on an eight colour screen in DoublePAL mode. For the file copying we used Directory Opus 4.12. SCSI drives were tested off the Oktagon card's external SCSI port.

AMSUNG PLS-31084A PRICE £199

Samsung are a relative newcomer to the computer hardware scene as a

brand, although they have been manufacturing parts behind the scenes for some of the best-known names many years. Their offering to this line up is a solid performer, although it does make a bit when you

operation the drive is sturdy and reliable.

Copy from RAM: to drive 1,680,410 bytes per seconi

S EAGATE ST5108A PRICE £169 3.5" LORGH IDE drive, 5" long, 75" high, 1032Mb formatted

Ahh! What a tiddly little drive! This Seagate is certainly small enough to cram inside your A1200 as the latest style seems to be, but it does have a standard drive connection, so anyone intending to do so will have to get a 44-pin cable to 40-pin cable-and-power-cable adaptor. The drive feels fast in operation, notwithstanding the poor results given by SysInfo, and has Seagate's usual warranty

Copy from RAM: to drive 1.195.185 bytes per second

AMIGA COMPUTING

Q UANTUM FIREBALL 640AT PRICE £96

3.5" 640Mb IDE drive, 5.75" long, 1" high, 611Mb for

Quantum have always had a good name for themselves when it came to SCSI hard drives they come as standard with Apple machines - but their IDE hard drives were never known for their turn of speed. However, the Fireball is a great drive. Not only does it feel speedy. in operation it proves to be fast too. Windows open quicker and icons are displayed in a flash Unfortunately, unless you are lucky, you probably won't be

able to buy this drive by the time you read this piece because it is no longer being made, but the and one twice as large will probably be reduced by the time you

read this.

Copy from RAM: to drive 1.713.359 bytes per second

G ASTEINER 1.08GB EXTERNAL PRICE £22

3.5" 1.08Gb external SCSI drive, case is 8" long, 5.5" high, 3.5" wide. 1073Mb

The Gasteiner drive is actually IBM's Pegasus model and performs very well in association with the supplied Oktagon controller card. The case has the familiar push button SCSI ID switch and two 50-way SCSI connectors. It has no internal termination switch or drive LED, but the power switch is handily located at the front of the case. The drive is fast and quiet and is apparently a best seller at Gasteiner. Again, the hard drive appeared to work harder than its SysInfo results bear out.

ere are the results of our tests:

Copy from RAM: to drive Systnfo speed rating 1,614,850 bytes per second

FIRST COMPUTER CENTRE 1.08GB EXTERNAL PRICE £299.99

3.5" 1.08Gb external SCSI drive, 9.75" long, 5.5" high, 2.25" wide. 1042Mb formatted.

This last drive on our list is First Computer Centre's offering. Unfortunately, it arrived too late for photography, but it momes in a smart, stylish case with an LED for power and one for drive activity. The back of the box houses two 25-way connectors (like the Arniga end of the parallel port) at their than the more normal 50-way Centronics-type

connectors. It has an internal terminator with a switch and a dial for selecting the SCSI ID. The drive is a Quantum Fireball 10005 drive which gives solid, but not outstanding performance in this case. This may have something to do with the 25-way cable, although 1 doubt its length will be a problem – it's only about a foot long at most. Here are the results of our tests:

Copy from drive to RAM: -35 seconds

Copy from RAM: to drive ~36 seconds

SysInfo speed rating: 1.598.439 bytes per secon

F UJITSU M1614TAU PRICE £145

3.5" IGb IDE drive, 5.75" long, 1" high. 1039Mb formatted.

The fight was another sides booter. If you don't mid resulting your machines to you have machine the other with a steady gar machine to you have mached the both streen, then you have mached the both streen, then you are one of those propilem. If, however, you are one of those both delay propriems readily available on the best. The fights performed well other than this proplem and its jumper settings were easy and clearly printed on the case. The property was a simple settings were easy and clearly printed on the case. The property was a simple settings were easy and clearly printed on the case. The property was a simple setting were the property was a simple setting was a simple setting which was a simple setting with the property was a simple setti

M AXTOR 71626AP PRICE £226

3.5" 1.6Gb IDE drive, 5.75" long, 1" high. 1553Mb formatted

This drive was the nicest presented of the lot, coming as it did in a big, full-colour box with fitting rails and a manual. The drive itself seems to be well-built and comes with a two-year warranty.

Mastor reckon it has a 12msec

Maxtor reckon it has a seek time and it certainly felt reasonably quick in

every day use. The Maxtor was slow to spin up and resulted in us getting the 'Insert bootable

'Insert bootable disk' screen, so a longer boot delay is required.

Here are the results of our te

Copy from drive to RAM: ~36 seconds
Copy from RAM: to drive ~38 seconds
SysInfo speed rating: 1,743,751 bytes per second

ALFA DATA OKTAGON SCSI CONTROLLER CARD

Not a SCSI drive, but the controller for a big box Amiga like an A4000. The Oktagon is one of few cards remaining for new owners, but it works pretty well. It can be take up to eight megalytes of IZ PBAM on board to at as a memory can always and a SCSI controller, but this DBAM worth you've, at full speed in which can be seen to see the seen of the SBAM worth of the SBA

hard drive space as memory. The card does have some very nice features such as password protected boot and so on. You can fit a

tected boot and so on. You can fit half-height 3.5" drive on the card itself as well as externally.

Here are the results of our tests:

Copy from drive to RAM: -43 second
Copy from RAM: to drive -38 second
Systinfo speed rating: Not available

S ETTING UP A SCSI DRIVE

SCSI is much easier. Before you install a new drine (you can have up to seven hard drines or CD-ROMS, SCSI scanners or tapestreamers), check the ID number of the drives you already have on your machine. You can do this by starting up HIDroolbou and looking at the ID number, or address, which is shown in the second column. Make a note of these numbers and make sure you don't set your new hard drive to the same ones. How to set the new drive's ID. Well, Somewhere on the same ones.

it should be a set of jumpers usually numbered 1,2 & 4. These are your bit values and they work in binary. If you don't have any jumpers your ID is 0, if you have one on 1, then your ID is 1. One on 2 and 4 means that your ID is six and so on.

If your hard drive is an externally cased one, then you will probably have a dial to change the SCSI ID of the drive. If not, you'll need to take the case apart to change the drive's ID.

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LOW BOOT-UP

If you don't already have one, the greatest accessory to any first-time Amiga user is a hard drive. Unfortunately, when a hard disk fails it seems as if the bottom's fallen out of

sour world There are many non-fatal errors that can occur

with a hard drive and 90 per cent are due to user error. One of the most common is the invalidated drive - invariably Workbench. Workbench will inform you of this error with a

requester stating that the drive Workbench is not validated. So what are the symptoms?

that continues flashing even when Workbench has loaded. and, of course, the not validated requester. The problem usually

occurs when a user, that's you. has removed a disk or reset the computer while something was being written to the hard drive not the done thing

The solution, in most cases, is to wait until the hard drive light stops flashing and to reboot, or to invest in a good hard drive repair program such as Quarterback Tools or Disk Salv. Check the adverts in Amiga Computing for these products.



The symptoms are a Workbench that seems to take an eternity to load, a hard drive light



O If you reboot your Amiga while copying data to ur hard drive it may become invalidated. arterBack Tools to the rescue

If you want to become an Amiga expert and leave behind beginner's blues, here's a helping hand to set you on your way

often come to a time when you need to type in a character which doesn't appear Diphthong symbols (© and Æ) are often

Workbench comes complete with a very useful program called Keyshow - located gained by holding down two or more keys

ters that can be used with the combination. If you press the Alt key you will see

ALTERNATIVE

Ed is the supplied Workbench text editor and although it features the basic elements of a text editor. vou'll soon realise it is extremely limited in the power

Workbench also comes with another, often neglected, text editor which features many useful and powerful features. MEmacs, located in the

Tools directory, is a very competent editor which serves as an excellent enhancement to Ed. MEmacs contains many of the features found in commercial editors and also allows access to CLI commands - usually typed in the Shell. MEmacs is hardly ever mentioned by Amiga users but it is far superior to Ed.

KeyShow program to help you

() Although Ed might se like the only Workbench text editor, Although Ed might

THE PARTY OF THE P

seem like the only Workbench text editor. MEmacs is an excellent

ASTER DISK ACCESS

Even if you've got a hard drive you'll never escape completely from having to use the dreaded floppy disk. Disk accessing and writing can be a real chore due to the slow nature of floppy disk drives.

Thankfully, Amiga DOS provides a command that can actually speed up disk access considerably. In fact, your Workbench already uses it. The command is AddBuffers and if you load up your startup-sequence in the S directory you'll see it under C:Version >NIL:

Addhuffer SAIL: 050-45

By changing the value 15 to a greater number you can increase the amount of buffers (RAM) used in order to speed up disk access. Beware though - using too many buffers can slow your system down due to the lack of RAM. On a basic Amiga of 2Mb you can safely set this number to 50 or even 100.

SE YOUR MEMORY

Working from a floopy disk soon becomes tiresome due to the slow across and writing times. The process can be made quicker, though, by copying the files you want to work on into RAM which is faster than a hard drive - it is almost instant.

Once you have finished your work you can then copy it back to the floppy disk. Using this method you only have to access the floopy disk twice. Performing this task with the floppy disk would take infinitely



AMIGA COMPUTING

S MOOTHER FONTS

Your Workbench uses what are known as bitmap fonts which are fonts made up of pixels. The problem with bitmap fonts is that when scaled in size they tend to look chunky and blocky (called jaggies). IntelliFont, located in the System drawer, allows you to install special outline fonts.

Outline fonts are better than bitmap fonts because they are drawn using mathematical equotions, so when they are scaled they maintain their smooth quality. You can install new outline fonts using intellifernt and even create new bitmap fonts out of outline fonts. All your current outline fonts are indicated with a "symbol.



Workbench is no longer restricted to bitmap fonts. Outline fonts provide beautiful fonts with no loss of quality

RAINBOW

Changing the colours on Workbench can prove to be a great deal of fun but you can do more than change the icons and backdrop colours – you can also change the colour of all the window and information

The first thing to do is load up the Palette program located in the Prefs drawer. The elements are presented in a scrolling gadget with the default colour in a box to the left.

If, for example, you select the element labelled Artice Mindow Titlebars, which is originally blue, and then choose black you'll find that your windows change to this colour when you hit the Save button. however, before you commit yourself to any changes you can click the Show Sample. button and you will be presented with a debativ midnow and soziologadgets in the colour scheme you have soneffied.

Even though Workbench is capable of running in 256 colour mode, you can only edit the first eight colours. This also applies to the elements – they too can only be of a colour in the first eight.



B ITS AND PIECES

Hard drives suffer from a problem known as fragmentation. When data is copied to your hard drive or data moved around, the files tend to get spread right out across the hard drive. The result of this is that files on your hard drive take longer to load and Workbench windows take longer to draw.

Using a program such as Quarterback

Tools, you can de-fragment your hard drive. This process involves taking all the programs off and then replacing them so they are not split up or spread out. Although the process can take a fair amount of time, the speed increase in access time is greatly enhanced. You should look to de-fragment your hard drive once every six months.



sarterback Tools shows how the data on this hard drive is split up considerably

T HE RIGHT SETUP

If you own a hard drive it will have been more than likely formatted and Workbench installed at the retail end. Although this means you can use your Workbench immediately, you may find the actual setup lacking that personal touch.

I previously mentioned the usefulness of a Data partition for backing up our posses.

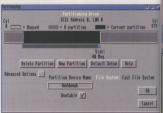
I previously mentioned the usefulness of a Data partition for backing up purposes. Unfortunately, most setups don't take this into consideration which means you have to alter it. Workbench comes complete with HDToolBox in the Tools directory which allows you to partition (cut up) and format your drive.

workbering complete with Toolooks in the Toolook partition (cut up) and format your drive.

When you load HDToolBox you are presented with the main window and a set of options. If you cut control to the tool of the tool of

By clicking on the New Partition button and then clicking in the spare volume area you can add a new partition, and this, too, will have a blue arrow you can move up and down just as before. In the Partition brike Name box you can name each partition – one will, more than likely, be called Workbench. You must turn the Bootable button ticked which tells your hard drive to automatically tran do box to using this partition.

To make the changes permanent you can then click on the Okay button and select Save Changes to Drive at the main HDToolBox window. To Innish of the procedure you should then boot with your floppy disk Workbench and format each partition with the original names you chose in HDToolBox. All that's left then is to install Workbench to the new Workbench partition Early, bult?



Although partitioning and formatting your hard drive seems nerve wrecking, HDToolBox makes it a great deal easier

Jargon

RAM - Read-Access-Memory. RAM is memory provided by the computer for you to use as you

wish. RAM is extremely fost but its contents are lost when the Amiga is turned off. MB – MegoByte. A MegoByte is an indication of RAM size. IMb is

K – Kilobyte. A Kilobyte is equal to 1024 bytes (see below).

Byte – a byte is equal to 8-bits (see below).

Bit – a bit is the smallest value a

computer can store. It is perceived by computers users as either I (on) or 0 (oft). Buffers – these are areas of RAM put aside specifically for use by

Validation – this is the process the Amiga uses to understand and interpret hard disks and floppy disks. All disks are validated (or checked) first before being

CLI - Command Line Interface. Use window to the Amiga's Disk Operating System or DOS (see below). DOS - Disk Operating System.

This allows you to communicate with your Arnigs. Before desktops such as Workbench become available users could only communicate with their computers via DOS.

C Not only can you change the colour of icons and backdrops but also window elements and text THE MAN FROM ESCOM EXPLAINS...

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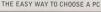












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Contents

System News

Andy Maddock looks at all that's new in the Amiga games world, and comes up with surprisingly little. Still, he writes well enough

Reviews

Premier Manager 3 Deluxe

Gremlin launch their fantastic football management simulation bundled with the Multi-Edit System

Watchtower

OTM's Commando-like war game makes its way on to the Amiga - and it's pretty good too!



Charlie J Cool

Just forget about it and read this instead. It's a new version or something



Feature

Capital Punishment

We think this is going to be one of the best games of the year. Read what it's all about in this four page interview with the game's producer





Preview

Xtreme Racing Data Disk

No sooner had XTR had time to hang its coat up than Guildhall hit back with a data disk . New graphics, sounds - they're all here!



able Alien Breed 3D. Let's hope it's just as good

Cheat Mode

At last. We bring you the second part of our complete guide to Flight of the Amazon Queen after about three months of keeping you waiting. And er, it's not the last part anyway





















What the Magazzines think.

Witted probat his or consistent shiended be labor supplies consists and smalled Amiga Shopper and "...the Bittaned 1200 is destined to become the altimate object of draw from the California of the Cal

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SYSTEM news

By Andy Maddock



Computers, not porn

ollowing our preview of the excellent

Capital Punishment, we received a letter from Mr Siemsen from Scotts Valley in the United States of America, and he wasn't too happy with the cut-out image of the bare-breasted warrior.

*Although Lusually enjoy your articles in Amiga Computing, the review on Capital Punishment was offensive. I am not sure who was responsible for displaying the 'bare breasted warrior' picture (what kind of programmers do we have out there.

anyway?), but it all points to the area of hypocrisy. We complain that the Amiga is not doing well because of piracy, mis-management, etc. but as long as there is a constant degrading of women, and exploitation of children, in Amiga software, we have already limited our supporters. I am a concerned Amiga fan, and a subscriber to Amiga

It is such a shame to see a wonderful tool, the Amiga, used for violent and perverted playarounds There are a lot of Amiga owners who don't bathe in blood or have their brains between their legs. I am tempted to ask for a refund of my subscription, bu you are the only connection I have to the Amias

I'm sorry you feel that way Mr Siemsen. It may have been slightly childish on our part to present ou readers with such a full on image of this character We feel that sexism will never be completely wiped clean from Amiga Software

Think back to the early days of compute software such as Barbarian on the Amiaa. The ba clearly presented a damp near naked woman slaving to a huge muscular Barbarian. And wha about the Leisure Suit Larry series. An adventure game whereby the whole object was to take advantage of women.

Times have changed and maybe it is time to see these things wined clean from computer games What does everybody else think? Write to us at the usual address. Meanwhile, you can read an interview with Alexander Petrovic the producer of Capital Punishment and see what he has to say about it on page 90 this month.

Hey look, I'm really Liam Gallaaher

Last month we set a competition called "Hey look, I'm Noel Gallagher". We have already had a couple of entries, and remember there are games are up for grabs as well as a special sound product worth ground \$100. We won't tell you what it is - we'll just mention it's been lying ground at the bottom of our curboard for a good few months and nobody has used it. So it's yours if you you playing guitar piano, whatever, Anything goes. We'd also like to thank the people who have already entered and mention that all the entries we have received so far are superb. We've decided to extend the final date because we are sure we will be receiving even more, so once again... Come on!

Alien's on the Internet

System awards

Over the next couple of months we will be covering a feature to find the search for the greatest Amiga game ever. All we want you to do is fill in the following form and write down some answers - just to register your vote. Have your say in the great Amiga game debate

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New games! Ooh, they'll all come out

So what have all you Amiga gamesters got to look forward to over the next few month. We'll tell you...

Championship Manager 2 - we're still waiting for some news on this. The last we heard was that is was put back vet another month so it looks like we may hear something around mid April

NBA Jam Tournament Edition - this is rumoured to be coming out on the Amiga - who knows? More Information next month. We promise.

Legends - this adventure-like game from Guildhall Leisure should be winging its way into these pages next

Atrophy - OTM gre



(flootball game courtesy of Domark, whole game will be on show at The World of Amiga show on although I haven't heard anything for 13-15 April if you fancy going to see it



Allen Breed 3D - after the preview this month we should also have this next waiting for the

Tracksuit Manager 2 - we did a preview on this exciting new release ago and we're still



XTR Data Disk - also from Guildhall is the reviewable version of the data disk for the excellent XTR.





Thought we'd forgotten?
At last we give you the next part of our solution

Flight of Amazon

Alright! So we may be a little bit late with this second part of the complete solution. It's only because it's taken us this long to actually get anywhere. No, we're only kidding – we're really amazing at games and we complete them in hours. So there.

You notice the coupon inside the comic has been removed. Use this with the soggy coupon from the plane to view the plans and code for the packet racket, enabling you to work out Skip's message.

Now go and find a waterfall and then head east where you'll come across the ape. Go south at this point and you'll come upon the missionaries. Speak to Mary Lou and find out how she communicated with the pygmies. Before you leave you must give

the banana to the monkey in the middle and then take the coconut from him. Now go back to the ape and insult him which, quite blzarrely, will involve him disappearing. After the log bridge

you will find some wasps buzzing over a flower, so hoover them up using the vacuum cleaner, pick up the flower, and continue to head east. As you approach the carvings you'll hear a noise and you must hide behind the liftle hole. You will see two women

appear and they will talk briefly before a stone slides across your hiding place. You will then find yourself in what looks like a dungeon. One of the men present will give you a glove puppet. Faye will then appear and she will release you

because you are needed to rescue the princess.
You must now walk around the pool and go west and you'll be at the entrance to the castle. If you continue along the path you'll find yourself at the pinnacle. Now you must head towards Trader Bob's.

When you get there you must offer Bob the flower you plcked earlier and he'll return the favour by giving you an extensive the comic book in return for a file.

able to get a banana from

back to the pinnacle and into the jungle, heading east until you reach the waterfall. Use your net to capture the beetle and then go and find the missionaries. Swap the file for the dictionary and go back to Trader Bob's and then swap the perfume for the

On your way out, talk to the withch acctor and you will also own that the needs some stuff to oue rashes. Give him the vacuum and he'ill take out and use the wags, then break the occount and give him the milk contained inside. Get a flower from Roda and give it to the stoke who will start of earlier, whereupon you can use the scissors to cut some of his hot off. Now you can go bock and give it to the withchadctor so he can make the cure.

Once you have this, go back to the jungle and find Bud. He will pay you for the rash cure. Buy a record at Trader Bob's with your money then go back to Floda and talk to the receptionist - you must tell her you are the fumigator so she can let you in. If you walk north towards the library you.



the



Queer

Ind some money under a custion. Use the record on the record player to reveal a hidden lift. Farget about this for now and go through into the kitchen, and after falking to the cook, give him a bannan which he will take away with him. Take the control to the cheeze Bitz and dag food from the kitchen and take the asst exit into the sleeping augretes.

Open the mallocal and tase out the Letter's photoe John Novy our mail open the locker and blee the loy, Go boack to the library and get in the lift, and once if descend you must open the fest door not the workshouse. Joke the fit open the door not the workshouse. Joke the fit open and give the letter to the guard two will allow you to go into the rooms he was guarding. Go to the fist for om and remember on of the messages on the table. Let we that often and go into the guard is guarding fronks (after your letter).

the guard is guarding Frank's offile that Henry is going to the kitchen for kitchen duty. Outside this room you will meet Klunk who will tell you that he was created by the

Mad Doctor, Ignore him for now. Go into the next

room and tell the solder caled Henry that he has kitchen duty and that he should see Colonel Jackson, with which he'll disappear. Now you can access the

guarded office. Use your knife on the book on the table to prise the book open and discover the key inside. Go back though the door and down the stars, through the lab and upwards and you'll come to a cell door. Open it to rescue Princess Azura

Go into the foyer and take the pencil from the vacant receptionist's post. Use the mannequins to hide yourself and then ask Azura about the code and she'll do it all for you.

Now you must give the toy you picked up earlier to the dog, who will be nice and content as you open the door of the shed. You can't open the box inside so head back to the Amazon Fortress where you will be given a horn-like device. At this stage The Prof turns up and insists that Joe must go to Sloth Island. So off you go,

When you arrive at the pinnacle, head towards the jetty. The ferryman/reaper will ask for some balt so he can fish properly. Give him the beetle and he'll take you over to the island in return.

When you get to the Island, go into the temple and you'll see a stillow and some empty storage space, next to which there is an entrance - one of which you should go through. Take away all the bones which are left when you move the decomposed badies. Now you can go back to the other room and put together a new skeleton in the relevant compartments. Put the arm which is left not the strike and a contraction.

down the hole. If you leave the room you will have to go through the right-hand door and head northwards. Cross the bridge and talk to the zomble-type things until you persuade them to open the tomb. Now you can pick up the bandages. The women will

then disappear. Open up the tomb and take the crown. Cut the vines to repair the pulley, then move if and you'll see a big drop which you must fall down.
When you get up, use your knife to scrape

When you get up, use your knife to scrape some sap off the vine and head towards the fountain head, pick up the blue stone, and walk past the lever into a room looking down onto a guy trapped in a cage.

And we'll leave you to see if you can figure out the tast bit because we're not going to let you cheed all the way. Come on! Put some effort in. Alight - if you get really stuck we may be persuaded to print the last part which you can put together with our previous parts and make a nice little booklet. Ahh.







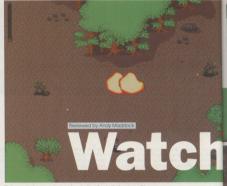






SYSTEM





Two explosions over the top of each other. Surely that's not possible

you've ever played Commando at the arcades then you'll know

A lot of companies struggle to get a foot-hold in the computer industry because they tend to launch an original idea where the money is. The best

software development team is take the simple ideas and inflict new technology upon them. This will undoubtedly appeal to the

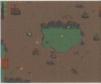
majority of gamesplayers. One of the all time greats was Commando - and it wasn't because of the technology at that particular time. was all to do with competition. You

could crowd a good six or sever people around an arcade machine who could quite bappily take it in turns to tr to take the top spot on the high score table, and you did manage it yo would be rewarded with with your mates and the birds Er, only kidding - because you

kicking in the car park for being 'too good. Although the bit about the birds is true. CyberArts



The briefings screen will inform you of what you have to do, so listen up!



screen. If you get shot once you've had it



Speed test

One of the main down points to these games can be the amount of sprites in the screen. In the later once. Thankfully, Watchtower doesn't slow down

Each of these soldiers takes two hits to kill and

for you such as grenades, a shotaun or simply

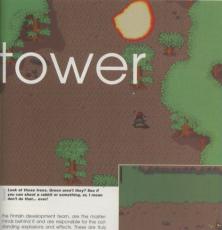
stick while continually pressing fire. The enemy's

6 Watchtower excels in its playability. It's iust like takina a trip down to the arcade to battle out a good few hours of Commando 9



I'm the best me - I'm the best in the world me. D' yes wanna fight or summat?

Final word



superb and although they don't make a game.

As far as plots go it's the same old story. You are in big demand to help defeat some overpowering nation somewhere and your job is to face them and basically blow them off the face of the Earth with your pistol... hmm.

to fulfil it you will be living in luxury and swimming in money for the rest of your life. So there's

There are six missions where you must take on the enemy which are all based over different terrains such as the desert, jungle and city. Each one has a varied amount of baddies and end-of-

If you collect that power-up you will receive a huge big gun which will allow you to shoot more people. Hoo-ray! level guardians. The best parts of the graphics are

almost certainly the backgrounds and explosions.

However, where Watchtower excels is in its playability. It's just like taking a trip down to the arcade to battle out a good few hours of











This, readers, is the afterlife. Strangely familiar, isn't it?

he story: Charlie J. Cool is cool. A bit obvious, but the instructions emit on the form of this fact every few seconds, or I'll remind you. He's cool. He was sunglasses all the time to prove how cool he is. He reads a newspaper called the Cool Times. He's stupid. And following an unfortunate clana meets head inclieden. He's data authe idead.

Color is a ferraded of herbody place classed from the firms the fillipped. And following also difficulties from the fillipped. And following also difficulties from the fillipped from the fillipped from the firms and fillipped from the fillipped from the meets God and recisions he is been girm recorrect too soon as they don't know if he's Heavenbound or going down. He only way to soft things out is for him to favell through Midway. At the end of this quest, he'll have proved himself worthy of Heaven or Hell and everything is hursly dony. So, God swifting soeth the door and shores Challe Social swifting soeth the door and shore platform garne. That's what the uterfels is live.

So, yes, it's not terribly original, but then what is these days? Basically, you've got seven realms of Midway to polary! Brasically, you've got seven realms of midway to polary! Through with four levels in each, in each level, find a key and get to the far right-hand side of the level to proceed. Each successfully completed level sweeps your brow with a special password-shaped duster there are power ups to fliddle with, and special bonus rooms lurk about the place like great bit ulrikn bit miss.

All well and good. But what unique trousers does this game wear to make it stand out? Well,



Look out for that spike, Charlie. You've only got two lives left, and we don't want you to die

Secret lemonade drinker

In accordance with EC platform game low. Charled Lood features secret rooms, stu, unlike most games, you can't actually see the rooms. But milke most games, you can't actually see the rooms. Whereact most games lower lift life cluses – a section of lightly coloured wolf, a platform that loods in howhere. Charled is rooms or invisible. Unless you find a special loom that reveals their the first platform game is weeking out where the secrets are. Toke that pleasure away and it makes the game even less fur.

remember that you must prove Charlie to be good or bad enough to go to Heoven or Hell. In each level there or excepting the province of the pr

There are, however, some bad points. Bad points which rampage through the good points



I bet you wish that you were this cool, don't you?



Charlie tries to hide from my cruel comments Come out, you fool, I love you really.

Charlie

Charlie J. Cool is only vailable via mail orde Send a cheque for \$10

like some crazy bison. First up is the satanic stinginess with lives. Three hits and that's it, Game Over. You can pick-up extra lives, but they're few and far between. Admittedly, this isn't a huge hardship as the game isn't overtly difficult, but combined with the other flaws in Charlie's sack of badness it's enough to cast doubts on the game's worthiness.

Flaws like the lack of a continue option. Every time it's Game Over (after only three hits), you have to retype the password and start the level again. This soon leads to aggravation, especially as the collision detection can sometimes seem a little wanton. And the ironic cherry on top is that to play the final level you have to play through the whole game without using passwords. That's 28 levels on only three lives. It had better be worth it.

Now after those gripes it might sound like I'm slagging the game off. Well, actually, I am. But I don't want to. Underneath all those pointless annoyances lies a pleasant platformer - it might not change the world but it's fun. At least for a while. In fact, it reminded me of that golden Team 17 oldie, Superfrog. Very similar level layouts, similar controls, similar objectives. The only difference is that Superfrog was covered in nice shiny playable bits, whereas Charlie J. Cool is covered in niggly bits that make you grumpy. It is cheap, at

Reviewed by Dan Whitehead



Even Charlie get's so frustrated that he simply stops everything and reads the paper

only a tenner, but even this doesn't make up for the fact that after an evening spent in the company of Charlie J. Cool I wanted to tear my hair out and smother him with it.

6 There are. however. some bad points, Bad points which rampage through the good points like some crazy bison



Final word

if you're a highly strung perpity really, as deep within

r, usually to land on a spike



feature

Definitely Maple

PUNISHMENT



This latest
Amiga
offering just
proves that
Oasis aren't
the only ones
making it big
across the
Atlantic

ast month we covered a preview version of Capital Punishment - the no holds barred beat-tem-up created by clickBOM, the development team derived from a 25-year old. Torontosted graphic design company by the name of

Capital Punishment's producer, Alexander Petrovic, formed his team from experts in the fields of programming, art and music in 1994. Commodore's saga was unfortunately taking its foll but click\$DOM braved through the storms and carried on with their project, not knowing what the future would hold.

They were designing graphics until around midnight and if they weren't happy with them they wouldn't pack everything up and go to bed, they would work through the early hours of the morning because the job required dedication and if anyone has the dedication it's clickBOOM.

The whole purpose was to create 'ultimately playable video games' that would bring everything good about the arcades to home computers. Namely, the Amiga.

I spoke to Alexander Petrovic to find out more on his quest to bring the world's greatest flighting game to our screens. I began by enquiring about what his job entails: "Before we started work, my job was to find the talents that would produce a black quelling certain perman." He continued: "Stone



You can see here how the various frames of the bare-breasted warrior have been strung together

then my job has been the development of new ideas, solutions for problems, and finally to ensure the quality of every aspect in the game."

I heard about Capital Punishment about three or four months ago, but Alex explained it had actually been in production almost a year and a

Why Capital Punishment?

When developers sit down together and try o dream up some original ideas, these are

the most time-colideas are always difficition to come by. I aske Alex how the idea of Capital Punishme came about

came about.

"Cur first idea was something, completely, different. When I assembled the clickBOOM team, we sat down and storted discussing what type of game we'd like to make. If was immediately obvious that we had to make a fast action game, because



gramming a routine which may be proporated sometime in the future

fighting certainly wasn't our first choice. Or at

out a 3D game where the player could control a bunch of Commons through the jungle, the goal being to assassinate different criminals and drug lards hidden deep inside the jungle. However, the rest of the team thought the game wouldn't be action packed enough -

and they were right.
We tried it and it looked
OK but I realised it shouldn't
be our first game.
Consequently, Capital
Punishment was eventually

The purpose was to create ultimately playable videos games that would bring everything good about the arcades to home

This is the first background which the graphics artist wasn't particularly happy with...

... so he changed it to this which, as you can see, was definitely the right

show for the world to find out about us, and that's when we believe we were officially established as a developing team."

Before the Amiga show, not everything was unring to plan. To the first day of the show, other the president of Amiga Technologies Poulse. Our stand typichyclarekax, oddresed the public, our stand posters, officuously we didn't have a single Amiga on which to show Capital Punishman beacuse our equipment hadn't have a single Amiga we managed to borrow one from an employee of an interested company and just as "Verbrowshere look of a view to show the him Technologies of the shower him him we have a single and the properties of the shower of the shower him him the shower him the shower

Tyschyschenko paid us a visit, we showed him the demo, and he was very impressed – especially after hearing that it worked perfectly on a unexpanded Amiag A1200.



half. "We are paying attention to a lot of detail so that it would be playable and long-lastina."

Alexander believes their big break came at the "World of Amiga" show in Toronto lab December. "Although we started working back in 1994, only a few people knew about us. I felt that exposure at such an early stage would slow down, so we waited until the World of Amiga

After the president of Amiga Technologies vitiled, the public began to spark interest. By the end of the day, we were giving away free demo disks to all who wanted them. On the Sunday we had a Capital Purishment fournament. Two brothers managed to reach the final, with one emerging victorious after severy rounds. He will receive a free copy of the garme once it's available in





Eighteens only

As we've clready seen, the game is violent, Aft he moment Alex thinks Capital Punishment should comy a certificate. If will certainly be more violent cleredy seen. We do not want lose to buy this game, it has been intended for mature audiences because the style of fighting is real. —there is no fyghting is real. —there is no fylinto humicones etc. Capital Punishment is realistic and that's what scared some of the people within the industry. Capital Punishment received only a few letters about the disapproval of the game content - however, these weren't targeted of the violence but of the gift. "If you think your parents would object to seeing a bare breasted women with a wink, as the is in the clemo, please do not buy the finished game because the is a nasty character."

clickBOOM will probably be noted for being totally committed to the Amiga because they are one of the few who have braved through even the most challenging of times: "We had a choice of rushing the game for Christmas or toking time to do things right. Basically, there was no option. At we wanted to do was make the best fighting game and there was only one way to do it – sit down, work, and try not to think about the time.

So, in the end we did not try to make Christmas, although by now the game will be twice as good and I think the players will appreciate that

Two of clickBOOM's developers are actually kick boxers, so you can see how accurately they have drawn the moves



stores. Following the feedback they received from everyone involved. Allexander saw the store as a valuable experience. If gave us an apportunity to fall to players and, as a result, we not able to gain some valuable input as to what the public would like to see in the final version. Moreover the show served as a testing ground for software business, and we are hopper to say the software business. Capital Punishment passed with flying colous; Obviously, in Canada the games market is cell tainly not what it used to be - especially with the Commodore episode - so I asked about the games scene over there. "At present, most North American computer users do not have the slight est idea what the Amiga is. We don't really have many Amiga stores here anymore. Since Foronto in the common stage of the control of the c



One of the major issues affecting developers and publishers oldes is of ocuse, pricery, and Alexander also believes it is under "the rehiefing of using a new acherine. If the protection detect in that guare has been detected that a game has been detected that the protection of the detection of the detection of the protection with protection with a though right in would store you colorers with a chapter in Ampla games. The current Ampla games is

scene is reputed to be at its weakest level, so it seems odd to be planning and releasing such a huge game. "We will see

what happens with sales. If the best fighting game for the Amiga does not sell well, then all Amiga users are in real trouble because that will mean pirates have really killed all hope for

good Amigo-specific garnes." The main competition for Capital Punishment will be Body Blows. Mortal Kombad and Shadow Rightles but can Capital Punishment of the Valence of the Shadow Rightles but can Capital Punishment of

games look like carbons and to Capital play like that I no. Capital Punishment, on the other host. is red carbon - you have to learn to learn host. I see a carbon - you have to learn tacks. We find to create you achair free part of the you achair free part of the you cause free part of the scenesy. Capital prinshment will carbon - Joseph and screen-Faches, different hosps in screen-Faches, different hosps in host dawn and the wint we've put in the demo. The remaining features will be hove to be keep a secret until he remaining features will be hove to be keep a secret until he.





games is the best job in the world for all of us, and you can see that from quality of the game 9

6 Makina



You can see here how the designers have used wire frames to base their characters on

a big city we are lucky to have several Amiga stress but in any smaller town. Amiga hardware selection is non-existent, if they do need a piece of software or hardware they really don't need stores on every corner - they will find their product and mail-order if."

In the control of the

This seemed the right time to mention what they thought the future may hold for them. "The lopic of the Armiga's future has been the focus of much debate. Two years ago, most people were convinced that the Armiga would not survive a year without Commodore. Well, here we are in 1996 and that prediction has been proved folse. The Armiga would be not work to the provider of the developed the provider of the developed the provider of the developed the provider of the provider o

Alexander believes there is enough talent out there to produce plenty of games during the year: "When we began our project we lignored the scepticism that was present within the Amiga community and decided to solely concentrate on work. It was our opinion that the Amiga, quite simple, could not die."



scenes are probably the best seen since the Shadow of the Beast series

Final word

I asked Alex if he had any final thoughts. "Making games is the best job in the world for all of us, and you can see that from the quality the game. However, the road for Capital Punishment was hard, but also very entertaining, if sho obtains the wind with swark and we will always take time to think and produce playable and enlyowable games."

The finished project will feature modern play, nos special effects, uppradocion moves at rou progress, sampled speech throughout the game, and some configurable options such as tapping the two fighters passing each other on-screen so they can push against each other on-screen so they can push against each other.

We will hopefully be able to bring you a fureview of this already eagerly awaited gam year, soon.





preview

The whole disk consists of the editor and you will also be able to use graphics boards and set the number of colours and even

multitask .

wo months ago

weren't particularly outstanding and featured some mad touches such as being able to race against a sheep, but this is what made it so unique and original. But with a data disk being announced by Guildhall Leisure, we'll have to waif and see if the silliest has last act sillier.

Usually we wouldn't cover a preview of a data disk but we felt you had to know about this because it was such a good game. Basically, the data disk features some beefed up graphics for the A1200 and it's due to be released soon. So if you've got FastRAM you're in for an extra special

treat

When we previewed XTR about three months ago the development team weren't sure whether to include a track editor, and when the reviewable version appeared it

ed of the state of

The love track. Woo ooh ooh! I don't quite know the thinking behind this. Maybe it's for Amiga lovers. Hoo!

A TR

vara alsk



was clear it had been put to one side to add to a data disk in the future. Well here it is

The editor is obviously the main addition and you will be oble to re-design all the boundaries, computer car routes, drop down points, surfaces such as road, water and grass, and finally you can add your own

secret paths. The whole disk consists of the editor and you will also be able to use graphics boards and set the number of colours and even multitask You will be able to design the graphics completely rather than just the tracks and will be able to select palettes and so on. There will also be a full on-line belo as well as a quick start guide, and to top it off there are five new predefined tilesets and object sets which even include Elvis!

Insight

There are a series of cosmetic additions which consist of beefier explo-sions, two completely new weapons. four player joy-stick support, saved lap times, and updated presentation screens. The full tracks are Hell Below, Lurve Land, Gotham City, Duplo Bricks Land, and the

As I mentioned it's going to be released pretty soon. The finishing touches will be applied and then you can update your copy of XTR to



Have you always wanted to race around Lego land. Make sure you don't crash into any houses - they take ages to build



You can also race around Batman's home town unfortunately Robin's nowhere



As you can

see, the track

vou endless

editor will be a

superb edition which will give

The scary lava ridden track will be by far the most exciting of tracks with monsters and things



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Tottenham against Liverpool is always a game which provides many goals - except this one



The team selection is the same as it has always been. You can access all relevant team details from this screen

Premier 3 Deluxe

hen Premier Manager flist came out I was the properties of the control of the co

About a year later my appetite was to be dangled over the freshwater lake that is Premier Monager 2. Although undermoth the same game existed. If featured some superb match sequences and generally if had been politied up graphically. I didn't spend as long on the second version, mainly because if a seen if all before and if was just too damn hard. I managed to take Halfar Name 10 before and if was just too damn hard. I managed to take Halfar Name 10 before and the was just too damn hard. I managed to take

at my local side Stockport County and from then

on I failed miserably.

When Premier Manager 3 came along I knew that after two previous versions, if anyone could strike up the perfect game then it had to be Gremlin.

So what exactly is Premier Manager 3 Deluce? Well, it's a like a luary version of Premier Manager 3 because it comes with the much tabled Mult Edil System which allows you to after everything in the game, be if fearn manes, layover anness art ings, league structures — the lot. Also, the actual editor has been around for some time but only now have they decided to bundle it in with the full acckace.

I think a Premier Manager 4 version of the game isn't the answer because surely Gremlin would be pretty hard pushed to find completely new ways of presenting the same football simulation. Consequently, I think the fahl



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£tba

DISKS

Gremlin Interactive

Realms of Fantasy

All change

The Mutil Edit System is based along the same lines as the actual game. The locan appear at the foot of the screen and you can cycle forward and backward through the various voluses by the left and right mouse buttons in all you can edit the learns, managers, lists, players, chilips, ground capacities, ticket prices, ground name, safely ratings, and league tables, and you can even upon also edit you start provided the continuous control of the continuous control of the content of t

you can zip straight to the top in the Premier League. The whole system is readly easy, efficient League. The whole system is readly easy, efficient League the system of the system of the system of the world take to the system of the system

It's like a luxury version of Premier Manager 3 because it comes with the fabled Multi Edit System





The telephone is the manager's best friend. All your transfer information and contracts are here



You can output any of these screens to the printer so you can look over your team's performances in great detail

Manager

Idea was updating all the information and rereleasing it, so if you haven't already got it you can buy the whole updated game, although if you already have it you could invest in the Multi-Edit System and update it yourself – if you have

There are no additions to the actual management side itself – the new 95/96 teams are the only addition. For instance, you will PREMIÉR

the ticket prices are correct



Final word

Right, I am going to award this game on the merits of the package itself, not as a sequel to the original Premier Manager 3 because it's no different. Do not buy this whatever you do if you already own Premier Manager 3. Otherwise gout and buy one baday



placed around mid-table - although they'll probably still win the championship

now find Junisho at Middestrough. Aspille at Mewcastle. McAlere at Liverpool and all the updated league structures and rules. On your substitution bench you can have time outfield pictyers and scorffice the goodkeeper entities from the team therefore flyout leapen get signed or choice from to stok an outfield player in goal consideration with the work of the control of the contr

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Alien Breed

- The Killing Grounds

he first Alien Breed was a phenomenal success leaving gamesplayers gasping for air - and not not this as also month it was awarded 'Best Doom clone on the Amiga' when we compared them all to find out the true champion.

Finally an early version of the sequel has arrived and we can now answer a question which has plagued computer journalists for years.

An sequels as good as originals?

Some may argue that the developes have appeal their toos in the water and tested the temperature, so they now know if they should put it back in. Some find it just right, some find it far too hat, (that's a good analogy — lipst model it up.) If the temperature is just right as equel may be in order, affording this may story away from the original too much, producing not so much a sequel but a nenttey new game. To the other

Previewed by Andy Maddock

extreme, they may want to keep the basics of the original game and just add some features here and there, so the sequel may not warrant a full release. It's a difficult job to manage a sequel but if someone can do it, it's got to be

You are still Captain J T Reynolds from Alien



Will you be able to make the jump or not? That's the question. I haven't managed it yet, but it's possible

Oh no, those big beasts are gonna come around the corner any second and I'm

6 From what we've seen the game is looking absolutely superb. Alien Breed 3D 2 is better than Doom 9



You can see from this screenshot that the graphics are better than Doom on the PC or Playstation



preview



Right! I'm soaking wet through and my gun's gone all funny on me. What do I do?



Och, this is a scary alien bit because it looks like a scene from the film Alien

Breed 3D and have awoken on likely to feel sorry for the beasts you've just

happily splattered across the wall. A feature which will undoubtedly put the finishing touches to a superb game is a level editor You will be able to design your own levels to play against friends or even upload them to Team 17% homepage so other people can play them.

The part you've all been waiting for is obviously, how it plays and, more importantly, is it better than the original? Well my answer to that question is... yes! From what we've seen that game is looking absolutely superb.

Alien Breed 3D 2 is better than Doom. If you try playing Doom on the PC for half an hour and then play Alien Breed 3D. It will come clear which one is the best. After all, the Doom phase on the PC is slowly passing and it may be time for the Amiaa to get in there.



Surely you can see you are in dark tunnel - you can just make out the steps... I think

I have only seen one level so for but it looks so much better than the original, it's difficult to believe they came from the same publishers. Oh. to take my word for it either why not play it yourself. If you hook up to Team 17's World Wide Web page you can download yourself a copy.

Watch this space for a full the coming of one of the the medical bay of the alant battlecruiser which was sent to destroy your previous vessel Osiris 3. This giant battlecruiser is, in fact, an alien spaceship. After hunting ground you find a teleporter which instantly

planet. You then re-appear in what seems like a courtvard ing an alien base. Your job is to explore and then destroy.

weapon to dangle feebly at the foot of the guns have been beefed up so much, you are



Can you see the light in the background? thing must be lurking there so be careful!

Reflections

As I've already mentioned. Allen Breed 3D was huge success and this is exactly the reason to reflect on what they could have put in and wha they could have taken out, so with new ideas it

Alien Breed 3D 2 will incorporate 16 massive standard A1200 and a Hi-res 1x1 pixel ratio to accelerated machines. You can switch between resolutions using the numeric keyboard and car also reduce and enlarge the screen size to ha you prefer. Also, there will be graphical touche

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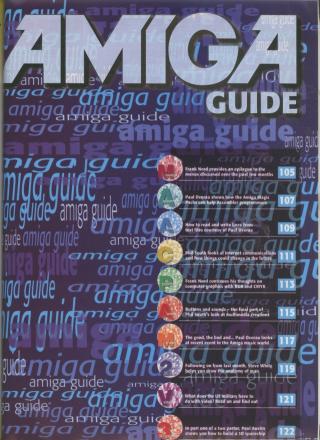
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Frank Nord finishes menus off with a look at some of the more useful menu-related tools



Would you like to see the menu?

epiloque

Ilia he ideo of on epilogue for his series on menu. It kind of remind ne of The inches of the mode, with fix by Thiones or The Fugilite with Door, Joseph Per program would during be didded into three ports and on epilogue. Well, bit he not from your Workbeach menus now that you show what they also what they obligate her program would be provided to the program would be provided to the program what was the program with the product of the program what was the program with the product of the program what was the program with the product of the program what was the program what was the program when the product of the program when the product with the product of the program when the product was the program when the product was the program when the program was the program when the product was the program when the program was the program when the product was the program when the product was the program which was the program when the product was the program when the product was the program when the program was the program was the program when the program was the program was the program when the program was the program

STARTING POINTS

So what shall we start with. Well, how about Magic Menus since I've already mentioned it. This was written in the dim and distant past by Martin Korndörfer and it still performs brilliantly. In case you've never seen it, Magic Menus allows you to get your menus without having to move the mouse up to the top of the screen. Instead, your menu titles appear in a vertical block and by moving the mouse over them, you can open the menus, submenus and so on. You can configure the way it looks and whether this affects normal meaus (when your mouse does travel up to the top of the screen). The only problem with Magic Menus is that some programs (like DPaint) that patch right mouse button functions can have problems with it. However, getting the esoterically-named NewObtainGIRPort should sort out those troubles.

Next up is a MUI program colled ReKeylt. ReKeylt allows the user to replace the keyboard shortust used for Workbench's menu ivera so fich instead of Right-Arriga A being "Select All", it can become the for more useful "Snoopshot > All". Ukwins, Right Arriga U can stop being the shortut for "Usnapahot", a function I very rarely use, and become the shortus for "Update" in the Window



neerly tand swarring are two of the most neighbur workbeach commodities to do with actual menu operation. The 'Select drop action...' window appears when you drag and drop an icon int Swarinfo's main window area (rather than either the icon or tooltypes areas)

menu, which I use on a daily basis. Fortunately for those that only have a small macent of memory. ReKeylt deast" have to load any of the MIL libraries unless you are actually in the process of changing your preferences. And so we go on... Next we have two competing commedities the small but perfectly formed MCR and the large but also perfectly formed MCR. Now. I prefer the small but perfectly formed MCR is a deaty to MCK's smallness. Clay, it is not a easy to configure, you have to change cryptic tooltypes to be able to det the entings, but it takes up very life!

By contrast, our coverdisk editor, Neil, prefers

MCP because it delines more configurability, more options, but this so their some ememy, Of course, like Raffordy, you don't have been been you. Of course, like Raffordy, you don't have to load MLR; between if you don't don't you settings, MCP also offers rhings like TodAllois, presenteded promoted and various other both the would be aging affected to configure through toolypes with MCP. Both layou will measu-food Workbarch opensite that lith face they you will measu-food Workbarch opensite that lith face that you will measu-food Workbarch opensite that lith face they are common, among others, and MCP. Beef up he list in separet in the Workbarch measu at described in this column or could in misc claim or cooled in morth age.

AND FINALLY...

But wait, don't go. There's more. We're onto the biggies now. The two utilities that expond the Workbenh book men. Toolkhaneger and footledemon, or elidistipsenshible for serious Amiga users. Toolkhaneger, in its current form at reliadispenshible for serious Amiga users. Toolkhaneger, in its current form at properties, it is somewhort overcomplex commodity that odds we items to your ploats menu. You can hove animated docks, sound effects playing when you state tools, and on and on. I still use the very of Toolkhaneger v.13 which desert have any of those bells and whistles, but is easier to set up and doesn't bake as much memory.

Tooksdoemon doesn't add anything to your Tooks menu. It allows you to create as many new menus as you like (or that can fit on your screen) with or within the submenus. Both programs make full use of Workbench's drag and drop facilities, so you doe'n reed to laboriously type in path's to your programs - all you need do is drag the program you want to add to your menus into the interface window for either program. Swazinfo is another utility offen mentitioned within these hallowed pages. It replaces Workbench's after the program was not to the program of t

information requester when you hit Right Amiga I, or select Information from the Icons menu, and improves an it considerably.

One of the hearly filings if does is supply you with information on how much data is contained in a downer. This rist wholly occurreb, but of least provides a guideline - hearly for people copying files to flapples. Sweatfor does provided story and dron facilities for replacing too images or tealthyse by simply dragging the desired issue image or tealthyse into the appropriate section of the information viridous, "wantiful helps you call those parky tealthyse too the provided of the provided in the provided of the provid

There are almost certainly more tools and commodities that can help you with menus, but these are the ones I use the most. You should be able to get any of these commodities from your local friendly PD dealer and they are all available on Aminet.

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explands on the one year on get strike with 6800 Coding on the Alings to this month I thought I'd spell out of the ground right. First and foreness this important not to be put off by what you've heard book at Assumble coding. The 6800 Chips used in the Alings hose instruction set that on a quite limited off their is nothing interestly complex cloud their operations. Each instruction certains out stone implicit and the contraction grown of the contraction of the co

The real problem is not the 680x0 instruction set — it's the Amiga's O/S (operating system) itself. Learning about this is a challenge simply because there is so much to understand. There is no easy road... you've just got to sit down and work at it and, even with the right documentation, it takes appeal thanks of that it is real good fund.

Now this doesn't mean that you bury yourself in manuals for a couple of years and eventually surface as an Amiga-enlightened coder. Learning to



ADVENTURE TIM

Once you've got the hang of re-assembling the example you might also want be modify it so that it prints a number of exat messages using a loop. With the fundamentals of shell output out of the way you will thin he receipt in more on to something a little more adventurous. When you start Amigra college that the shell of the shel

Ust an example messa	
Just an example messa	ge

The output from this month's example program

program seers works like flort – the best approach is to get stack in and flee larm or a you go along. But, and if a big BUT, there is absolubly no point stangillar with Anagappachic lisses and I you have some basic ideas of what 68 kcading is all about. Therefore, you ristillar priority should be to get a reasonable understanding of a few common office in the control of the common of the co

memory). You should also aim to eliminate as many of the Anajas-specific problems as possible in the early along and you can do his by writing general, as opposed to Anajas-specific, assorphic code. Nor-Amajas specific Anajas coding! Southal like a contradiction in terms until you remember had many sand lest program will contain rothing in the way of Anajas-specific moleral or all. The lifetimes are supported in the contradiction of part has instruction, will laughty on the or substance and load register of with the value \$40.

tart: move.# \$40,d1

If this code is assembled the searchafte code it walf ram, officingly own of see any visible and visible through the control of th

Similarly, short test programs will enable you to experiment with things like program loops, decision tests, and so on. Now this may not seem like real Arriga coding, and to be honest it isn't, but it's a useful initial stage because it lets you play around with 68th instructions whilst avoiding the Amigo-specific nosties that produce pitfalls in the early

Once you've got a few weeks of practice under

your belt and are happy with moving data, calling subroutines, moking decision tests, and perhaps some understanding of the ways in which information is passed to, or collected from subroutines, it'll be time to move on to the next stage. If you think this might start involving fruitine or Amiga graphics coding then you're being a bit optimistic — in fact

coding then you're being a bit optimistic — in fact you've got a long way to go before they appear. The best next step is to concentrate on the Shell window as output. These will doubtless be a little more involved than your party efforts but, as Amiga programms on, they will still be relatively simple.

In order to send text book to the Shell window that stands the program you need to identify the output handle (known conventionally as _addout) of the Shell process. It's not a difficult job and specially all a program needs to do it open the DOS library, and then make a call to the DOS objects, the program needs to do it open the DOS library, ord then make a call to the DOS objects, the provided handle and the provided Amiga startup-code (which will be provided with your assembler will catcally pen the DOS library for you, but if not don't despair – it's not a difficult to b.

Once a subset houselie is welladle yet can use months OS coll. While, It and didn host of Shall. Oppasing librories, making librory function for Shall. Oppasing librories, making librory function colls, and printing such took of the Shall has conce poir teem it done tone, and you'll find a small assample on this month's cover filt is source and we wrise, colled casemble yets, that on con which use as of the default to libr Grain the life. The models werson, casemble yets, doesn't how on know a love of the coll was to Workbarch option to display? It Howe a loke at the cole and by changing the Howe a loke at the cole and by changing the

text message and reassembling the example. If, incidentally, you are already a C programmer then you are, of course, duty bound to change the text of the program from:

do.b 'just an example message',LF

to this C classic:

de h 'Wallo World' IF



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Paul Overaa offers some notes about reading and writing lines from text files



The results of using

the line numbering

macro on the

e number.rexx

script itself

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an keeping with many modern languages. After support only usingle file I/O model, but depote its simplicity in his proven to be both useful and feebals. This is provincionly so when it comes to test files which need to be read or written on a limebyline busis, from a file in the order of the best of the control of the second of the control of the co

Line\$=ReadIn(filehandle

Another function, Writeln(), allows you to write a line of text. Writeln() appends a newline character at the end of the string and the call itself has this type of format:

character_count=Writeln(filehandle, line\$)

where the returned value indicates the number of characters written."

With any sequential file read operations it's nec-

essary to know when you've reached the end of the file, and the ARexx function used for this is EOFI_. Since such tests are normally corried out as part of a series of loop operations, most coders tend to use the NOT (-) operator and write the end offile test as part of their loop wit condition like this:

```
ile "EOF(filehandle)
do
/* do something */
```

If the returned Boolean result is 1 (i.e. true) then the end of the file has been reached!

Programs which use loops to read all the data held in a file will usually arrange to read from the file until the EOF() indicates there is no more data to read using a framework based on:

```
If Specify, correct masts, 'P') thes

of Specify dest_masts, 'P') thes

dest specify dest_masts, 'P') thes

dest specify dest_masts, 'P') these

find specify dest_masts, 'P')

Closeful

and

Closeful

What you couldly do with the lines being recd is
```

What you actually do with the lines being read is up to you but if, for instance, you wounded to create a script that could add line numbers (surrounded by /*....*/ comment markers) to an ARexx program, this sort of inner while loop would do the trick:
69 white "ESFESI"

(ine%=Read(n(s)

Listing 1: The example ARexx script line numbering macro

i=i+1 Writeln(d,line\$) and

I've used a loop similar to this to create this month's example line numbering script. You will see when you examine the code given in listing 1 that I have added a slight twist by providing a Yes/No mode flag which allows the script user to choose whether line numbers are added to blank lines or not.

ring which allows the script user to choose whether line numbers are added to blank lines or not. The script is very easy to use. Just provide suitable source and destination file path/names, indicate whether you want blank lines numbered as well, and the program will do all the hard work for

you. You will, incidentally, find a runable version of the script on the coverdisk. It can be executed either by using RX from a Shell window or from the VolubleClickToRunfromWBI icon!

If you just want to use this script to add ordinary line numbers, as apposed to the /*....*/ comment delimited ones needed for ARexx scripts, then just change the line which reads:

[1885=7.** 11: *1" [1885]

to this...

lineS= i': ' lineS

```
* Incomplete reserve yell contracted and the contra
```

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Phil South ponders the latest in Internet communications and hopes the

Amiga can keep up



Net Speak

In news is that in Germany, of least, the first bly Angular leaves pool in the very. The AMICAR Surfer pool is billed as the "first two lentered Computer in the contract and whilst you can quibble about whether that should be first or "or," the foot remains which will should be first or "or," the foot remains of the Angap is uniquely suited to Internet uses and has been remarkably unique and the composition of the last of the contract of the composition of the last of limitary to the or total gains of DMI, I PS and the contract of the composition with DMICAR Surfer and the composition with the DMICAR Surfer and the composition with the BMIC Calcula Neurol.

IBM Global Network.

The 'complete solution' contains on Amiga 1200 with hard disk, a 14,400 faz/modem, and a standard satile of productivity and Internet software. The Internet software finulates a bowere for the Void Wide Web, an FIP program for file transfer within the net, an e-mail program for electronic mail, and an IRC program for world-wide live on-line.

The houses part of the deal conprises of or Angia 1200 will 2006 of EAM. of the notion, to shapin 200 will 2006 of EAM. of the notion, to shapines connection cobils, and a power supply. The productivity obtaves included in the will be producted Mogic Pool, but, of course, the most interesting part is the dodded Interest Solowies in the Software Mogic Pool, but, of course, the most interesting part is the dodded Interest Solowies in the Software Mogic Pool. but, of the dodded Interest Carlow Solowies (Interest Solowies Interest Carlow Model Pool Interest Carlow Model Pool Interest Carlow Solowies Interest Carlow Model Carlow Solowies Interest Carlow Solowies Interest Carlow Model Carlow Solowies Interest Carlow Interest Car

FALLING BEHIND

This off sounds wonderful but I'm constantly liked boot the way the Antige has folles behind in the years it was lying follow. A lot happened on the Internal whilst the Antige was skepting, and client software has been as of the recomplex and sery in the Intertim. A case in point are the roth of Internal Phone programs currently variable on UNIX, PC and Mac platforms.

via the internet, thus making an International call onywhere in the world for the price of a local call to your Internet POP. Although we all have the same internet connections as a PC user, for example, we can't call anyone up as the software to do so

ON YOUR TRAVELS

By the way, on the subject of the Amiga and the Internet you should really check out the new Amiga Web site on http://www.amiga.de. Although a lot of it is in German at the moment, the English parts of the site are growing fast. Look forward to a full review of the site in the next column.

doesn't exist. Yet. Another example is the CUSeakle proexample is the CUSeakle project launched by Cornell University. Using a simple 875 gizmo called the QuickCam, produced by a company called Connectiv, you can see another user, and if your Net consection is good you can also hear them. It's an Internet video phone! Now this is the coolest use for the Internet I've seen recently, and can I do it on my Aminos! No! can't.

The QuickCam is a simple parallel part device so it should be possible for someone to write some software to support it. Perhaps someone (I nominate make Connectix an offer to produce the Amiga version of the driver software and get the source code of CU-SeeMe from Cornell University and make in. The same goes for Internet Phone. This is a software-based technology, and it should be Amiga. The code already exists on a 680x0 based platform. i.e. the Mac. so the port should

i.e. the Mac, so the part should be a matter of great simplicity. All that is needed is for someone to care enough about the Amiga taking part in these new developments to do something about it.

My point is that porting these things to the Amiga would be simple, and there are so many Amiga users out there who use and enjoy the Internet that the market for a simple device like this should be large enough to make companies take notice. Although many of these developments are software based, some require a little hardware phone to the Amiga would, perhaps, need to be looked into. Obviously, you could just plug a head-Amiga sound sampler, but perhaps a new bit of cheap hardware to make it attractive would be a good plan. A little headset like those used by telephonists would be cool too. And price? Well make the QuickCam the normal PC/Mac price of £75, make the phone headset hardware cheap, like £15-25, and throw in the software for free. It's a plan, right?

I don't know if Amiga Technologies are aware of the immense importance of this kind of communications in the future, especially when Cable

CU-SeeMe















CORNELL UNIVERSITY

but only in a passive playable version

Companies are putting free local calls at certain parts of the day into the honoxid in armod citizens all owner the country, Imagine – you could phone anywhere in the world and talk to hours for free. This would be coal wouldn't life! All's 10-bbyty Amigra Technologies for a policy on this new technology and ask them to like the the elevent parties to by to hammer out some kind of a deal, eh?

CONTACT

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Continuing the discussion on computer graphics in print with Frank Nord



Key issues

o you've all gone and bought memory oppraces to cope with the new largee-ized proposes to cope with the new largee-ized proposes or rendering for print then, and it Unfortunately, larger images are not the only cretion when credit pricture for the only critical ways received print. The main fining that needs to be token into matter closur and reliefed color — the difference between looking at a picture on your monitor and on a new color of the color of the

printed on paper.

One of the things that has to be borne in mind is the inability of the different colour methods to accurately represent various colours. While RCB is excellent for a wide range of rads and blues, it isn't very good at yellows. CMYK, by contrast, is a bit lox when it comes to showing the range of greens

that RGB is good at.

This is a problem if you are dealing with images that the soften so a professional printer because he will need to change you image from its natural RCB status to a CMYK-copoble format like TFF in order to be able to print it. Ot, don't warry, he'll be able to convert it, that's no problem. The problem comes if you've set your heart's desire on a very definite range of colours.

SATURATION POINT

Just like working with images intended for video, RCB images are quite often too saturated for print work. Because the colours in printing are made by laying down more colour the darker you want the image to be, very bright greens, reds and blues are hard to achieve because they need the mixing of at least two of the four inks to represent, thus making them darker than desired.

This contain between what you want from your image and what you can achieve is called the gomet and. Also ever subretion in video images, if an a nore to seceed in Amust subhume the printers and the printers are subject to the printers and the printers and the printers and the printers are the printers and the

So what can you do about this? Unfortunately, and a lot. Because of the Amigas is bian towards, agraphics for video use, the printed output side of things has been prety moch ignored. In my fairly wide experience I have not come across any way of convertiga on ineges to CMTK in a forer that can still be edited and soved out in an epopropriate form on the Amiga, so you'll have to rely on other people's interpretation of what your poture should be considered in the property of the property o

Any excuse for a picture of sandra Bullock, I hear you cry



ARE YOU GIVING ME THE

I've had a few letter from people askingme how to get runaround werking me, orly, it seems meet of you are hoppy to use early and the seems meet of you are hoppy to use meet werd processors or DTP packages, but these tend to either just offer a base type runaround, or are hopelessly incurate in the way they choose to runaround. The simple answers to your problem is to at these tend to give the best runaround car these tend to give the best runaround results. Simply inpurely your bitmap as normal, but instead of turn test were pormad, but instead of turn test were porintendicately, make surey your column of

Next, thoses your draw too, It might be a maned differently in your package, but you need the tool that allows you to draw you need the tool that allows you to draw can be repailioned. Then draw a limbel leaving the edge of the image you with to wang your text around. Dear! worry about the colour of it at the moment, just keep of your image. But dear! Cells on much that you and up with a point at every pixel, you'll be westing your time. Next, thought to the colour of the c





our example pictures we have some of the text over a coloured background, but it would probably be best to massage such images so that there is no colour where your text is, unless you want that as a deliberate effect.

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In the last part of this quide to multimedia. Phil South looks at animated buttons



erfect ttons

ast month we talked about making things happen by using the mouse, and now we'll look at making buttons animate so that the user gets a bit of feedback for his

You'd be surprised how many Amos programs audible cue to confirm that a mouse dick has been made and accepted. If you make your buttons with Amos drawing commands this couldn't be easier Let's take our example program from last time and add animated huttons

```
Ink 8 : Bar 12,12 To 30,31
Ink 7 : Bar 12,12 To 28,28
Ink 2 : Bar 35,10 To 55,30
     : Ber 62,12 To 78,28
     : Paper 4 : Locate D.8 : Print "Click the
```

SOUND

part



into the programming environment, making it easier to incorporate sampled sound into your multimedia production

The basic listing sets up the zones and senses when a mouse click has occurred. This time if we button it'll seem as though the button has been inverted.

So for each button we need to do a redraw each time the button is activated. So after the button is pressed we redraw it with the colours reversed wait for half a second, and then redraw them the way they were, as in this example for the first

If t ○ 0 and 2=1 Then Bell : Int 8 : Bar 10,10 To 30,30 : Int 2 : Bar 12,12 To 30,30 : Int 7 : Bar 12,12 To 28,28 : Wait 25 : Int 2 : Bar 10,10 To

We only reverse the white (colour 2) and the dark grey (colour 8) colours and leave the body of the button (colour 7) as it is. After a wait of 25 clicks the way it was, as if the button nons down for a second and then pops up again

It's easy to rewrite all this information onto the end of the line as you simply do a block copy and paste with the code from the original lines which drew the buttons in the first place. This saves having to laboriously retype all the data for the buttons, but it also avoids any mistakes in the data if it is identical

being pressed, you have to pack the samples into a sample bank (Amos Bank or ABK file), which can be loaded into an Amos program from where the samples can be played back at any time in the program using the SAM PLAY

ples because they are so easy, but you can add other sounds to Amos very

of the hardware you need to grab sounds is built in to the system, and with

the addition of a simple I/O box you can sample 8-bit sound into the Amiga

Sound sampling has always been an easy technology on the Amiga. Most

SENSE It's tempting to use the built-in sounds for all your Amos programs, mostly because the sounds are right there and the commands are simple. Type BOOM, BELL or SHOOT and you are there. I always use them in exam-

for example, you will play the first sample in the bank. For really interesting multimedia with the minimum of sounds you should steal a trick from the arcade game coders and play back a sound at different speeds, thereby doubling and tripling the amounts of uses you can put a single sample to. Use

format where 15 = maximum number of voices for best sound quality, 1 = sample name from the bank, and 1000 = samples per second, with 1000 being around the lowest and 30000 or more being the highest. The only way to tell what different speeds will do to your samples is to try it and see. You'll be surprised at the amount of ideas this will give you

YOUR INTUITION

One last thing. I've reviewed a lot of extension addins for Amos over the years which make the program access the Intuition libraries. Don't neglect Intuition based programs in your search for the perfect multimedia app. (One such extension is reviewed in this very issue, in fact.) Multimedia doesn't have to be sound samples and other additional multimedia bits can be added. If you are really clever you can even interface the Arriga with other devices to make your

Amiga truly multimedia. But that's up to you and how much code banging you want to get involved in. All the relevant data for taking this further is in reference works.

Back to our normal transmissions next month when we'll be learning how to make Amos do all sorts of clever tricks again. I'll be delving into my Amos notebooks to remind you of a few little tricks ways to make tricky things possible. See you then

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Paul Overaa gives you bad and good news about recent events in the Amiga music scene



Faulty pipework

veryone connected with the Aniga music scene has been disappointed by the recent news that Blue Ribbon Sondworks, of Bars & Rips sequence and SurperIAM Image, ore pulling out of Aniga software development. Pulling or it in or quite the right word – they were been had hinted and only by Microsoft to develop pothware for the PC modern for Aniga music software development, I don't know what it.

A few Amiga pundin ore regarding the loss of like Ribbin Soundwicks as not only a catastropia like Ribbin Soundwicks as not only a catastropia in the masis sense but as yet another indication that developers are fleening the Amiga good like ribbin Soundworks in centroly a loss with Amiga good like varies when the send of the world because, as for as any future development was concerned, it is hard to imagine what also could possibly be added to a sequencer like Bans A Franci

The underlying reasons for any developer leaving the Amiga are two-fold — money, and warry about the future survival of the machine. After the recent Commodors Amiga Rozco, everyone have it would take time for the Amiga to re-establish itself. During this time most Amiga developers have had a hard time and it's little wonder that some have thought it safet to move to other oress.

HARD TIMES

Now whilst the red blame for the current rests the Anaign facts fair fill is forly and quanty with the Commodore Anign bases, indirectly the loss of centria key developes the activative percentar key developes the activative percentar yours and nine. What's happened, of course, is that while we've live usual for good preven sharing and to speed handing, note of un three been realting and the year owners of this give their Anign. Understandable of course — but companies salling Anign software or course — but companies salling Anign software or contract like the PCI or go under positives like the PCI or go under the Anison, ability allows the sall sall and the sall and the Anison, ability allows. It save consist on the

The Artiga, clash slowly, is now again on the move Aniga Technologies, though, no getting new-Aniga Technologies, though, no getting everything right, one trying load to do their bit fever in these still shollers any dory.) What they not reset a long to the state of the state o

in can is night you can shi help by spreading me word about just how good the Amiga is. Be fanotical – just like early Amiga users were when the machine first appeared with the then stunning 'Juggler' demo! The contract of the contract o

OctaMED Sound Studio



sound on display

On the brighter side I've recently received as a Best sets topy of the OctaMID Sound Stelles. Now whilst OctaMID S is already without doubt the best tracker program without doubt the best tracker program clear that the new Sound Studies package is older that the new Sound Studies package is despent to surpass it in all respects, and one of the most significant and exciting new features will be the new player mode restreets will be the new player mode restreets will be the new player mode and and the mostly independent of what kind of audie playback hardwore is available to discharge and the most propert of different sound following easy support of different sound

Existing OctaMED users are going to get special deals on the program when it arrives later this year so, if you've not already done it, the thing to do is buy OctaMED 6 now and upgrade to the



are being added to the SoundStudio program

Sound Studio when it arrives! OctaMED 6, incidentally, is also now available on CD and this has made it possible to include a whole host of extras with the CD version.

As well as OctaMED 6 itself you'll get literally hundreds of tracker modules, over a thousand sound samples from the Walkabout Music sounds library, Midf files, and a variety of doc files and OctaMED related willines.

The Official OctaMED 6 CD also comes with a printed OctaMED 6 tutorial manual so if you have a CD-ROM drive, and are looking to get into music-making on the Amiga, this particular offering is a good

OctaMED 6 is available on disk for £25 from RBF Software - 01703 785680 - and on CD for £29.95 from Weird Science - 0116 2340682.



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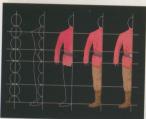
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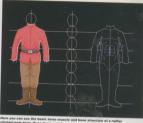
Avoid the queues by booking in advance Credit Card Hotline 01369 706346 Cheques and Postal Orders made payable to The World of Amiga at PO BOX 9, Dunoon, Argyll, PA23 8QQ Play God and master the art of drawing the human figure. Steve White gives you the head start you need



The anatomy of man



Once you have designed the shape of your subject's head you can use it as a template for the rest of the body



cliched male form. Tone down or enhance these features accordingly

ast month I described the principles behind the design of a human head. To complete this look at human anatomy, this mosth I will be explaining useful hirts and sips on how to create realistic looking figures – that's the neck down.

The principles underlined last month also work for

designing the human form. In fact, the head is a great starting point. The human form is approximately six and a half heads in length with certain positions used to mark body fleatures such as the kines, elbow and waist. Therefore, the best place to start is to grab the head circle and paste it down below the original head six and a half times.

With forattle views, and providing the subject matter

with trontal views, and providing the subject matter is not moving, you really only need to design one side. After finishing the first half you can simply cut, paste and flip it to the other side. After pasting the circles down below the head it is best to trace an outline of the main torso and legs – arms, hands and feet can be added later on.

The shoulder and top of the arm should meet at the

Into shoulder and top of the arm should meet at the middle of the first cride in the actual body, the grain should end at the junction between the first and lound should end at the junction between the first and the between the fifth and sight crices, You can adjust these positions slightly but try and knep as close as possible to the guides.

Next you can add the arms. The elbow should come heart you can add the arms. The elbow should come

Neet you can add the arms. The elbow should come between the second and third circle and the hand starts between the third and fourth circle alongside the grain if you want proof stand up and try it. A common

mistoke with the arm is to bring the shoulder out too far. Keep the point where the shoulder meets the arm in line with the widest point on the thigh. If you follow this proceedure you'll find that the armpit point can be placed accurately, using only the width of the arm as a reference.

As for the hands, leave them until last. Hands and feet are containly one of the most difficult elements of the human form to design on a computer — more ging them look realistic is even harder. Don't get bagged down in detail. Finish off the main body first and then odd the more intricate parts or the end.

With the main body structure complete you can then begin to add othing if anyl. Although this article is readly only concerned with the human form, it is worthwhile mentioning clothing as it can make or break a figure. The shape of a body is fairly startic, but add clothing and shape and form become a little more

DRESSING UP

The trick to drawing realistic looking clothing is to understand the fabric and shape of the body underneath. This all sounds a little highbraw but believe me, the more of an understanding you have of the subject matter, the easier it will be to emulate it on the computer.

Clething will reset to the pasition of the bady underseath. If an erm is raised the clothing will pull towards that point, and in a relaxed pasture the cocking will say if a bebt is worn it will pull and crosses the garmen it is over. You can odd folds in the cloth by drawing derive hedder below and righter studies observ. I've and think of points on the reset of the contract of

plenty of creasing. If you use the split method drawing only one half of the body first and then flipping the other side - make sure you change the clothing so that it doesn't look like a simple flip.

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Murphy's Law even affects you when you work with video as Gary Whitely discovers

Ain't



Just what does this '50's American soldier have to do with video? - You'd better read on...

ow float wister hos released it is cy grip; the days are getting longer and spring is once again in the air, I thought I'd stare o few stronge, true and stronge but true things which tend to hopper again and again in video. Maybe you would be as well to beer some of them in midst while you'd estating oil the video conners and edit suite in preparation for the longer days to come, and this year's video productions to get under voy.

Let's start with some of the true land sometimes silly) things which can happen during video editing and production. It's always infuriating when you can't get an edit suite to do what you want, and even worse if there are bits of kit which look like they might be potential causes for your problem. But more often than not this 'problem' can be quic kly traced to one simple thing - your edit videotape is protected from recording! This means the protection tab in the tape is either missing, broken off, or in the wrong position, depending on the format of tape you use. What's even worse is when you've taped over the missing tab hole and the problem is still there, only to find later that the tape has come unstuck or got dimpled so the VCR still thinks the video-tope is record protected! I've seen these problems happen on numerous occasion, and often to people who should have known better.

STRIPPING

An equally silly studies in the basis for one of my more elementary side on ments. If the basis of the side is video on important occusion which had to an to schedule, and outerflanding operand to here was very wrong with the video equipment. Everyone was very more given to severe the side of the side of

Now for something you might think stronge (but which I think is true). Call me incone, but I believe video equipment can be adversely affected by the people who use it. Ten years ago Govin, the guy who started me out in video, used to stand by our

VCBs and stake free when they were mishelarorize or refusing to edit cleanly, Inventibly, the edit would immediately be successful. Since then I've moiled, over they year, that there are certain people who just don't seem to 'get on' with video equipment, or matter how good they are at using a When they're around, video kit seems to brook down with an ollawst unnersing regularity, but for no apparently logical reason. And there are other lost who have a transit or not only define machines to the contract of getting the machines to the contract of getting the machines to the contract of getting the machines.

working again.

Being nice to your mochine is almost crucial. In fact, serious research carried out by, amongst others, the US military has proved a nace fines significant link between faults in electro-mechanical equipment and particular individuals. We all know people who are jinzed "- their light bulbs are

always blowing, their car breaks down far too often.

If this sounds like you, maybe you should just try
being nicer to your machines?

What about finose times when you leave a crucial prisec of kits one-where, without with you'd be surk? Strange but true — we've all probably done it. It am ten! you don't all host lives working on where we went for lunch in a pub half way to our real location and both fino camer in their half with a lor safe leaping. An how later we were on our way, only to discover we'd left the comers in the publi! We hadn't given for and we soon got the comers to had the publication of the comers of the working of the comers of the working of the comers of the working the publication of working the publication of working the publication of working the working of working the working working

One of the silliest sights I've witnessed is the production crew of a major movie almost grinding to a half because their mobile telephones wouldn't work in our rugged monstainous location. The local phone boxes almost gare out under the strain. Perhaps it couldn't be helped, but it made a change for a film crew's mobiles to be siltent!

CONTACT

Gary Whiteley can be e-mailed as drgaz@cix.compulink.co.uk

MURPHY'S LAW

One of the minunderstandings I often come across is that it's possible to edit dever from and to an est matter, and even of things its feeder and fiscones. Well, think clowed it below can you possible read existence, desired and exceeded with the feeder and instruction. Well will not consider the feeder and the exceeded and the scale an

Paul Austin boldly goes where everyone goes eventually



Paper to polygons

ou can try and fight it, you can say it will never happen to you, but the truth is, just about everybody who's ever bought a 3D package has a bash at a space ship. Over the next few issues I'll be taking you through the whole process from concept and initial design right through to surfacing and scene construction. However, before we embark on this epic journey it's well worth running through the ground rules of trans-

The first step on the road is out the mouse aside and pick up pencil and paper. The first mistake every new intergalactic newbie makes is to rush headlong into Modeller and instantly start slapping shapes together.

Before you do any designing take a moment or

two to think about exactly what you're trying to achieve. Is the ship big or small? What kind of manoeuvres and interaction will your creation be expected to achieve? Is it a bad guy or a good guy?

These are just a few of the basic questions you should ask before you even start thinking about the overall look of your masterpiece. To help you answer them, here are a few basic sci-fi, but more importantly psychological, cornerstones of believable space

DESIGN SIZE

The first question is one of scale. Are you designing a huge freighter or just a small fighter? If you're opting for a fighter you'll require an obvious cockpit area to help clarify scale. More importantly, you'll need large control surfaces or wing sections to enhance the feeling of high manoeuvrability. Fighter planes have large swept back wings, therefore view ers expect the same high speed look and feel from a space craft. The fact that a space craft needs thrusters rather than wings has nothing to do with it. sleekest body shape in deep space, but that's not the issue - it's all about perception. The most important thing about a ship's shape is



A classic example of organics and the look and feel of a preda courtesy of the king of 3D space, our very own Ron

its psychological affect. Remember, you're not just a designing, you're actually delivering a visual narrative. If it looks mean, it is mean

Next up comes the good guy/bad guy question. If your ship is a bad guy it's got to look the part. Again, this is simply a matter of psychology. Basically, there are two main styling techniques for both large and small scale design. For Freighters/space cruisers the general rule of thumb is that bad guys have a very angular look with sharp aggressive protrusions and a generally more alien appearance. Good guys, on the other hand, are generally more rounded and have a slightly softer, more organic look. When it comes to fighters the differences are usually more subtle, but having said that they tend to be more stringently applied. Basically, good guys tend to be more dart like with large control surfaces and smooth sexy lines. In short, the kind of ship every self respecting sci-fi fan would kill to take for a test drive. Bad guys, on the other hand, tend to out for a much more predatorial look with undertones of either insects or birds of

Again, this plays on inherent fears in the human psyche. Creepy crowlies, huge vicious flying creatures with fanas and talons. Perhaps the best examing about in ships with down swept, hawk-like

As mentioned earlier, these are simply rules of thumb. Essentially, it's a case of knight in shining armour fights dragon - the only thing you want to avoid is obvious repetition. The acknowledged king of 3D space simulation. Ron Thornton, bases the majority of his designs on food - which given Ron's However, even if you examine Ron's masterful designs, these basic themes still hold true. His baddies, although generally organic regardless of scale, all share an inherent predatorial look, often displaying shark-like fins, squid-like tendrils, or perhaps spideresque construction. Again, all phobia-inducing

discover swimming about in your bathtub.

Possibilities AND PRACTICALITIES

Assuming you've decided on the nature of your beast, the next step is to think long and hard about practicalities. Will your ship need to dock absolutely vital that you run through all the possibilities in advance. The one thing you don't want creation doesn't allow for it.

people is polygon count. During the conceptual bit it's all too easy to run amuck designing massively ther down the line. What if you need ten ships on



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