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**APOLLO A620** 

iracyl The mere mention of this word leaves Amiga owners groaning with despair. The piracy debate is almost as old as the Amiga itself and practically every stance has been argued to the death with the result that wer, little has actually been done.

The warring factions can be split into two distinct groups - the computer games industry and the Amiga user. The industry blames casual and organised prizer for the diminishing of Amiga software and lack of fature development, while the user blames the computer games industry for charging ordinary to the contract of the computer games industry, have failed to recognise, and that is the extral quality of Amiga and that is the extral quality of Amiga and that is the extral quality of Amiga

software. It would seem that the success the Amiga has brought has, in the end, been partly responsible for its downfall—as the industry has become more wealthy so they have distanced themselves from the end user. There has been very little after-sales support for Amiga owners and before the demise of Commodore it seemed our machine was being used as a testing ground for PC convessions and PC future development.

### NCOMPATIBILITY

A classic example was B17 from MicroProse. This game crashed left, night and centre on the Arings while the Pic Version Ipsqued like a dicarn. When questioned about the incompability problems, MicroProse told me that they didn't support Arings third-party hardware such as accelerators and FastMAM. What! The PC has more third-party hardware was the accelerators and FastMAM. What! The PC has more third-party hardware than any other computer in existence yet there were no visible problems with this version of 817.

The obvious conclusion to be drawn from this example is that MicroProse rushed the Amiga version through, resulting in faulty goods being released to the public so they could spend more time on the PC version. However, MicroProse aren't the only ones to blame. There are other big name companies who have done exactly the same.

Another good example of rushed software was Reach for the Skies from Virgin, I

# The money men



actually participated in the bug

izetting of this product (for free) and on serringe found ten times as many bugs as the actual quality control department at Virgini When the game was finally released most of the bugs remained and completed it in one day at the hardest level. What anneyed me most was that I paid £55 for this game — money I may as well have thrown down the drain. If I had known about this I certainly would not have bought it.

As mentioned before, these companies are simply two examples from a catalogue too vast to include here but the problem is **Steve White** airs his views on piracy and the way of the Amiga

spread throughout the computer games industry. And this is really my point. What is the incentive in buying software that is faully when you can get a copy of a for a fraction of the cost? Had someone offered me a copy of Reach for the Skies I would have found it very difficult to say no.

Obviously, testing a game so that it is entirely bug-free is not always possible. However, if you've ever perused the contents of a cover-mounted PC CD you will have noticed the myriad of bug patches for PC software. Why has the Amiga never been supported like thirs? Because the industry couldn't give a fig about Amiga owners, that's why.

When Doom was released on the PC the computer games industry said it couldn't be done on the Amiga, yet now they have all but abandoned our machine we see new developers springing up all the time with Doom clones galore that are just as good as their PC rivals.

In my opinion the problem really boils

down to ignorance and greed. The computer games industry as a whole has become so obsessed with advertising, deadlines and profits that the end-user has become merely a statistic – especially if you own an Amiga!

### The AC team

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### HRISTMAS SALES DISAPPOINT

eports from retail point to a slow reaction from consumers over what was hoped would be a bumper time for Amiga sales. After the many positive announcements we've had lately from Amiga Technologies, it comes as a blow for the hopes of a full scale Amiga comeback just vet.

Compatibility problems, SDL's troubles and absence of marketing have all been blamed for the lack of enthusiasm from

Amiga Computing talked to Dale Bradford, General Secretary of the National Association of Specialist Computer Retailers. He remarked: "The Amiga didn't have a good a Christmas as perhaps a lot of us had hoped. It's just so unfortunate that they got hit by the incompatibility problems. I think this scared retailers off because although traditionally they sold a lot of Amigas, what they don't want is to have problems after Christmas with people bringing back machines saying they want refunds We asked him what Amiga Technologies

should do to get the Amiga back on its feet. "They must get the retailers stocking them with confidence again and part of that would be sorting out the incompatibility problem, but also a bit of marketing would not go amiss either."

However, another problem is that the Amiga is only available from multiples like Tandy and Escom, Bradford agree; "If they could get the independents to stock it and support it again then that would help a great deal. That's where they [the Amigas]



ting for the

came from originally because none of the multiples would touch them back in 1986 or 1987. It was the independents who

helped to push them onto the market place." The fact that the Amiga was bought by

Escom is also seen as an obstacle by some retailers. Bradford said: "One of the biggest problems now is that they're owned by

Escom and it may be small-minded but there are people out there who are saving 'I'm not going to help increase the profits of someone who is cutting the arse out of the PC market' "

John Smith, General Manager of Amiga Technologies offered: "At the end of the day, if the Amiga had to survive somebody had to purchase it. We are a totally separate entity in the way we run. We have to make our own profits. The Amiga is a great product and we've brought it back, hence, now, the move into the surfer pack and I would hope more independents would take the view that we all love the Amiga so much - let's get on and sell it. They will make profit out of it. "

Smith admitted SDI's problems did have an adverse effect on Christmas sales: "It definitely did effect our sales which was inevitable as they were our largest distributor." He continued: "There's no doubt about it - SDL's demise hurt us, in the same way that when Commodore went down we burt SDL! Although the actual Amiga didn't sell as

well as hoped, the software on the other hand did nicely out of the existing Amiga users who have shown that they are still there to buy good games when they are released

Bradford pointed to the success of some Amiga publishers and distributors: "Those who are still supporting the Amiga are doing very well, such as Guildhall. I was also talking to Active Distribution and they're still shipping a lot of Amiga software."

### ISCORP TO USE AMIGA TECHNOLOGY

anuary 17 marked the official agreement between VISCORP and Escom AG for the license for VISCORP to use 'Amiga' technologies within their set-top TV appliance.

VISCORP's chairman of the board, Jerome Greenberg commented: "By employing a sophisticated chip set, such as the Amiga technology, VISCORP will have the ability to provide a complex set-top appliance with multitasking functions to integrate

affordably the TV set, phone line and network service noviders

This ability has not yet been offered or available

through existing systems." The set-top box will allow the use of the Internet with access to on-line services like Compuserve or AOL, bulletin boards, chat programs and Web sites. This, they intend, can be controlled by a TV remote, keyboard, microphone or touch sensitive pen. Other plans afoot include enabling users to play games, carry out home shopping, or access electronic banking. Greenberg said: "by utilising our unique set-top appliance and incorporating the Amiga technology, VISCORP is able to provide a complete practical solution for interactive TV services, and now the ability to access the Internet through a standard TV set with pricing that makes sense for the average TV viewer.

### REDUNDANCIES AT AMIGA TECHNOLOGIES

miga Technologies revealed this month that it was always in the pipelines. "By movthat they were relocating from their offices in Maidenhead to the Escom offices in Stanstead. Whilst there was nothing unexpected in this announcement, the fact that only General Manager. John Smith and one of the technical staff were actually relocating

Smith talked to Amiga Computing about the redundancies: "Two of us are relocating to Stanstead but we have over 40 people in Germany and the problem is that we have quite a lot of duplication of tasks. For example, there are

two technical guvs back

here, apart from the ones there." He continued: "when you look product development that also is mainly done in Germany." He pointed

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ing to Stanstead I have use of the Escom The offices are larger and more prestigious,

with access to more facilities. We always maintained that we were just using these premises to get up and running and we would always be looking to Stanstead at

some stage." He denied that the redundancies had anything to do with poor Christmas sales or SDL, "I definitely lost some sales time but you can't say that's why you get rid of staff - that's not true" Smith commented. "It's very difficult because not only were we work colleagues but we are friends as well because we all worked together at

Commodore. It's an awkward time at the moment."

> were we work colleagues but we are friends as well because we all worked together at Commodore." John Smith commenting on the recent redundancies at AT



### NUMBER ONE FOR WACOM

A report from an independent market research

consultancy, Pacific Technology Associates, has shown that Wocom is the largest manufacturer in the worldwide digitiser market. Apparently, the fastest growing sectors in Europe

are the A5 and A6 (ArtPad) sized tablets and Wacom lead the market in number of units shipped

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### OOPS!

Euroscene 2, which was reviewed in last month's Laser Guidance, should be credited to Almathera and not Weird Science. The price is £14.99 not £9.99 as stated. Amiga

Computing apologises for any inconvenience caused. Almothera can be contacted on 0181-687

### LOGICAL

### SOLUTIONS ARK (Applied Research Kernel) have come up with a solution to all your problems when it comes to compiling day-to-day information. Called Counting

House, it is a user-friendly package which makes life easier with seven virtual rooms with filing cobinets in each Timetables, for example, are created in the

Agenda room and transactions made with customers and suppliers in the Traders room Two versions are available - 'Cash' and 'Cash and Credit versions

Features include an Accounts routine generating a Trial Balance, Advertising Generator and Tax analysis and returns. Both versions require an Amiga with 3Mb of RAM, Kickstart 2 or later, and a hard disk with 6Mb of free space. The Cash version costs £59.95 whereas the Cash and Credit servine is £99.95

### WHOLE NEW WORLD

ore details are now available on the World of Amiga Show which is set to take place at London's persmith Novotel between 13 - 14 April. The event marks the first major hardware and software launch for two years. Featured at the show will be a Presentation Theatre, Games Arcade and retail area. Peter Brameld, show organiser commented: "I am confident that this is the dawning of a new age in Amiga computing. The interest generated by Amiga Technologies' involvement is electric and I predict that this will be the best Amiga show eyer." Admission for the show costs £7 for

adults and £5.50 for children. You can book now through their credit card hotline on 01369 706346 or by cheque or postal order made payable to The World of Amiga which can be sent to PO Box 9, Dunoon, Argyll PA23 8QQ.

### HISOFT OOPS We got it wrong last month. In our review of Histoft

Cinema4D, we categorically stated that it had no shortcuts for the move, scale and rotate functions. Well, stupid us, of course it has, Sorry HiSoft,

# SIAMESE SOLUTION

| iQ have developed a system which combines the qualities of the Amiga with state-of-the-art PCs. Called the Siamese System it has been put together to 'supplement the Amiga's already impressive features and enhance those areas where it

has been left to stagnate in this fast moving world. With the Amiga as the main system it allows the



the benefits of both a PC and Amiga

use of Amiga, PC and Macintosh software to run from the same platform via relevant emulators. There are four possibilities

and because of the way the packages have been thought out, the user will be allowed to set up gradually according to their needs and pocket Access their Web site for more details: www.hiq.co.uk

### UEST GETS BIGGER

SyQuest Technology are set to launch their new removable cartridge hard drive, a 3.5 inch, 1.3 gigabyte drive they are calling 'SyIET'. Offering a sustained transfer rate of 4Mb per second and an average seek time

The retail price is likely to be E349 for a drive and one cartridge, and no removable cartridge options will also be available – a 650Mb tridge priced at E39.99 and a 1.3 gigabyte cartridge at E59.99. It will

### S POON BENDERS

way of using the Internet has been set up to find out if be sent over the internet. Worldrenowned psychic, Uri Geller has issued a sooon over the Net for grabs if anyone

can do it. In Geller's



Bend spoons over the Ir

home is a see-through safe with the spoon locked inside and anyone who can bend the spoon while watching it over the Internet will be invited to be tested further over

A further challenge will then be issued at Geller's home when any contenders will get to try it out in person. If successful they will receive a generous \$1 million for their than one person is accessing the site, the organisers reckon further tests will be nossible to trace anyone successful. Apparently, the hardest part will be to produce a visible bend in front of the judges but Geller is confident that someone, somewhere will be

### RO-SOFT PLEDGE SUPPORT

launch of their new User Group which claims to be a 'cut-down BBS on a disk'. For all levels of Amiga user, the group will operate via a free bi-monthly disk-mag. Members will be able to find hints and tips from other users as well as buying and selling Amiga goods.

Interested parties should send a blank disk and SAE with their name and address to: Pro-Soft, PO Box CR53, Leeds decision to scrap plans for software on the PC and continue to develop for the Amiga due to the 'rapid re-growth' of the Amiga market.

They will continue with their range of gambling programs as well as releasing six completely new programs for this

This will include a range of lifestyle and business applications.

### STARTERS ORDERS

### NEWS FROM THE NET

### NET FIRSTS A venture backed by First Computer Centre

launched. Called Firstnet, its objective is to become a 'blue ribbon' Internet service and World Wide Web provider in the North of England. Offering a competitive modem to user

ration and wide bandwidth service, it will provide internet dialup access accounts to the general public.

Contact 0113 2319444

### PORN PERV JAILED

A man found guilty of receiving child pomography through the Internet was sentenced to

three months imprisonment - the first time arryone in Britain has ever been jailed for using the Internet for this purpose. Forty-four-year old Martin Crumpton, lather

of two, was caught as part of Operation Starburst, an International inquiry which also caught out Christopher Sharp who was fined £9000 for possession of indecent photographs of children downloaded from the Internet. Crumpton, a West Midlands computer consultant, admitted to six charges of being in possession of indecent pictures of children after his home had been raided on a tip off and the pictures found on his computer.

### BISHOP'S ON THE BAHN

A bishop who was hanned from his See for

his controversial views is back - but this time he's on the Internet. A year after his expulsion he has set up a 'virtual bishopric' for his many followers.

As bishops cannot actually be dismissed. 'virtual bishoprics' have been used before as a way of sending troublesome bishops to obsolete Sees. Gaillot has been moved to Partenia, an obsolete See in the Sahara and he has called his new site accordingly.

### ET'S GO SURFING NOW ....

ollowing last months revelations on the new Amiga Surfer pack, Amiga Computing can now reveal some more details. The package will now comprise of an Amiga 1200 with 2Mb RAM, a 260Mb Hard Drive, a 14,400 Baud Internet. The package also includes all the software from the Amiga Magic Pack. A country-specific telephone cable will be provided with the modern. As an added bonus, if the user registers himself at IBM prior to accessing the Internet before 31 March they will receive 100 free access hours.

The complete package will be available for DM 1198 which means it will hit the shops here for around £600.

### CTAMED EVOLUTION

last minute addition to our news pages arrived this morning with the announcement of the Octamed Web site. The site is replete with information on the new SoundStudio package being written by Teilo Kinnunen, and has contact points both for him and Ray Burt Frost. Octamed's distributor in the UK. You can download patches to the latest version and find out all about the history of Octamed. Also useful are the links to other related sites with

For anyone interested in SoundStudio here are the details: · Support for up to 64 channels of sound

Completely new and revised notation editor

· You can record sound samples directly to hard drive to

MIX editing

avoid RAM problems, so no limits to sample size like previous versions of Octamed Extra MIDI commands

 Full support for MacroSystem's Toccata 16-bit sampling card · Clear and precise 200 page manual explaining everything

in easy to understand detail. Special upgrade pricing for existing Octamed users.

SoundStudio is a direct replacement for Octamed. Version 1 and should be available sometime in February this year, so watch out for a review. For more information contact RBF Software on 01703 785680 or visit the web site

http://www.compulink.co.uk/~octamed/



∩ The current and last version of Octamed





Cybervision 64... 2Mb - \$329\*\* 4Mb - \$43 Reguest your FREE Technical Brochus State Periodicans 2011. Provide alphane for image manipulation: the EETMATE 24-bit jumphus package for A3000 in A0000 Includes 27 offices for processing phonoismaps such as thehore. Solution, Tenturion, Add Notes etc. as seed as Pariot Javid him. Challe Patalot, Copyon.





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### EXTRACTING COVERDISK FILES

To extract the programs off the second disk you must make sure you have booted your computer with the first cover disk, otherwise your Amiga win not be able to find the c:Installer program, and frustration will soon set in. Hard drive users should double click on the SetUp-HD icon before extracting any of the files.

To extract any single archive, simply on behavior and follow the on-screen instructions. If you want to quickly extract the program to RAVIVE level on the welcome screen and press proceed once on the current screen, and then again on the next. The program can then be found in your RAM disk.

You also have the option of using a floppy disk. If you pick this option, make sure you have a blank formatted disk at the ready, and if you only have one drive get ready for lots of disk swapping and a long wait.



Have no **Fears** as this month's coverdisks will leave you **Breathless** 

### INSTALLING NEMAC IV

The Nemac IV disk has been compressed to allow us to fit more programs onto the cover disks, so you will need to extract the Nemac IV program on to a blain floppy disk. Roppy users need to boot up their machine with our coverdisk, while hard drive users can boot up with their hard drives. To create the Nemac IV game disk, double-click on the KP37 iou and then double-click the

NEMAC IV DEMO

Requires: Workbench 2, 2Mb Ram 68020

Typical isn't it? The one time humans build the ultimate computer intelligence and give it control over all of Earth's defences it goes haywire, classifies all humans as potential threats, and brings Earth to the edge of Armageddon. And who is the person that has to sort the mess out? You are.

If you have told them once, you have told them a million times. If you are going to build the ultimate computer and give it control over all Earth's nuclear weapons, fit an off switch and whatever you do, don't put it in an impenetrable fortress.

ut it in an impenetrable fortress.

Apparently, the builders of Nemac IV did



.....

Nemac IV icon. Follow the on-screen instructions and after a minute or so you will be able to reset your

machine and play Nemac IV.

When the game first loads, before hitting continue you need to select the screen mode you want the game to un in. For ECS machines you are restricted to only two modes, while AGA and graphics card owners will be able

to pick many different resolutions in full 256 colours. If you have a Picasso screen, resolutions up to 1280x1024 will be available, but do not expect it to be too speedy. Hard drive users can install the game by dragging

will be available, but do not expect it to be too speedy.
Hard drive users can install the game by dregging
the Nemac IV disk icon to where they want the game
drawer creating. You can then run the game straight off
worst hard drive.





nother evil swine

not listen, and guess what? Earth's on the brink of a muclear holiocaust and you've got to save the day. Well, every game has got to have a storyline. It might be a little tired but it is a good excuse to blow lots of things up. Nemac IV puts you in the role of controlling a large multi-gunned robot in a

total destruction. You have to wande around each level searching for the exit, bu normally barring your way are various bad dies to kill, switches to throw and acces codes to be found. Employing the ole Doom-style, first-person perspective, you



KIN SOU SON

### FAULTY DISKS

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

TIB Plc. TIB House, 11 Edward Street, Bradford, W. Yorks BD4

Please allow 28 days for delivery

switch the chunky screen from a 1x1 aspect to a 2x1 or 2x2. Having a lower chunky resolution really gives a massive speed increase, but reduces the quality of the screen, so it is also possible to size the Nemac screen to whatever size you want. One feature I really like in Nemac IV is

the map. So far, no Amiga Doom done has fully copied how the map works properly. I always liked the way you could flick up the map, zoom in and out, and still walk around when you were lost, making it much easier to find your way around.

Nemac's map goes even further than this. If you hit the help key a head display map will appear, and by using the + and - keys you can zoom in and out. You can now walk around with the map automatically updating as you explore new parts of the level, and it even displays baddies which it pick ups as little crosses. If you now hit help again you can view the map on its own

wander around the maze-like levels dispatching evil baddies. On your side you have a double chain gun, a double plasma gun, a grenade launcher and a selection of bombs at your disposal, and if you find yourself in a particularly nasty spot you can fire all four at once. When the game first loads you can skip the story line intro by hitting escape. Once

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the normal Doom manner and kill things. and there are a number of handy in-game options regarding the screen display. While actually playing the game, pressing G will increase the gamma value making the screen brighter, and return will turn off the floor and ceiling textures, giving the screen update a speed boost.

Pressing escape gives you access to the main screen preferences, and here you can

### you start a game you can move around in A500 AND A2000

I bet many of you non-AGA owners must be getting a little ticked off by the complete lack of support for your machine, particularly if you own an accelerator, which used to be in abundance a few years ago. Well, for a change, Nemac IV does support accelerated OCS and ECS machines, as long as you have 2Mb of RAM and Workbench 2. The only difference between the AGA and OCS versions is that you have to run Nemac IV on a Lo-res 64 colour screen, instead of the 256 colour option available to AGA owners.

### SHAREWARE

### ORDERING NEMAC IV

The full version of Nemac IV costs £20, 50 DM, \$35 US or the corresponding amount in any other currency.

The shipping costs are:

- inside the European Community - £5 or 10DM other countries - £7, 15DM, 10 US\$ or the corresponding amount in any other currency.

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If you order more than one copy the shipping costs are charged just once. To order, send money and your de Martin Schlott, Ludwig-Thoma-Str. 3:

į,	93051	Regensburg	GERMANY	

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AMIGA COMPUTING



To use the following program you need to have the Magic User Interface installed on your system. Without it you will not be able to run any MUI programs. MUI is available

SYSSPEED

### Author: AlienDesign Workbench 2.04

Benchmarking has always been a thorny business, with some people even doubting the use of them to compare computers, and I would be inclined to agree. Even though a program like SysInfo may be used by almost every Amiga user, the MIPS figure it gives back is not exactly a true figure of a machine's speed, particularly if you have one with a maths co-processor.

SysSpeed is a 'real world' benchmarking program, and uses actual Amiga programs to produce its benchmark results. This means the figures it returns reflect how fast your machine is when performing proper operations, so is a better reflection of how fast your machine really is.

Standard system tests such as memory speed, Intuition window speeds and Intuition graphic operations can be used by everyone and will show how fast your ROM and graphic systems are. SysSpeed also employs a number of other Amiga programs via ARexx. By getting these programs to do certain tasks you can get a good indication of how fast your machine is when using these programs.



Possibly the only Benchmark program to return useful results

# DISK

### EYES Author: Massimiliano Hofer

The eyes have it, ho ho. This is a fairly pointless program but its small and fun. Just double-click on either the plain version or if you have a co-processor the other, and a small window with two eyes in will appear that will track your mouse wherever it may go.

You can run as many copies as you like, size them by dicking on the bottom right of the window, and if you insert a disk or click in the middle of the eyes window, the eyes will

### BIODAY Author: Mariusz Muszalalski Workhearh 2.04

Riorbythms. It's all a load of stuff and nonsense shouts our production editor. Enter her date of birth - it does let you go back that far - and it says mood swings are common. No surprise there then

Bioday is a really good biorhythms program, if you believe in that sort of thing. Normally, biorhythms programs just give you a fairly useless sine wave display and leave you to work out what all those lines mean. However, Bioday will give you a descriptive account of what the biorhythm values actua-By mean, how physically fit you feel, or if you are going to be intellectually creative.

### LOVES Author: Circle Soft Workbench 2.04

This has got to be the most bizarre program we have put on a coverdisk for a long time. Those decisions about love are always tricky and can lead to many sleepless nights. Well worry no more, Loves will sort out all your troubles. By typing in the names of the two people involved, Loves will tell you how the two people feel about each other and the chances of them forming a meaningful relationship.



The latest Workbench hack just about manages to change the way every

> UROUHACK Author: Tinic Urou Workbench 2.04

You may have noticed recently that there have been a number of system patches popping up, all trying to rectify the aesthetic problems with the way normal Workbench gadgets look -the standard window gadgets and the proportional and gadtool gadgets. UrouHack is probably the first to patch every part of the interface. All the gadtool gadgets get transformed into the MUI-style Xen buttons, and if you are running on a 1x1 aspect screen then the gadgets get the proper looking thin sides and tops, whilst the normal window gadgets get a new sysihackstyle 3D look. To install UrouHack you need to copy it over to your C directory, then add:

Run >NIL: <NIL: C:Urouhack to your startup sequence just after the SetPatch command.

### LHAGUI

Workbench 2.04

Lha has always been a little tricky to use being shell only and having a huge number of options it can be very confusing for the novice user. LhaGUI is another in the long line of Lha front-ends that make using Lha a much more pleasant affair.

With a resizable, font sensitive AppWindow, LhaGUI provides you with a very good looking front-end, and by dropping Lha archives into the window you can view and extract its contents to wherever you wish

### MULTICX 2.41

Author: Martin Bernede Workbench: 2.04

Good things do come in small packages, and MultiCX proves it too. This is a tiny utility that manages to pack loads of invaluable features into a tiny program. Window and screen manipulation, mouse acceleration, screen blanking, no drive click, new look menus and sliders, assign wedge, and new edit are just a few of the many functions MultiCX does.

Just drop the icon in your WBStartup drawer and read the document to get the low down on what every function does. All the functions of MultiCX have to be adjusted via the icon's tools types which you get to by clicking once on the MultiCX icon and then pressing the right Amiga key and i.

### Jargon box

- Original ChipSet, the

ECS - enhanced chipset, the slightly improved custom

AGA - Advanced Graphic MPS - Millions of Instructions

APS - Allians of Instructions

Hot Keys - these are a



Finally we have a real Mac-style trash can, or should that be rubbish bin? Another program for your WBStartup, ETrashCan allows you to delete any of your files by dropping them on a trashcan icon that lives on the Workbench and then selecting empty trash.

The problem with all previous Amiga trashcans is that they were either permanent ones that instantly deleted the file, or were like the original Amiga ones in that you could move files into a TrashCan directory and then select to empty the trash. However, you could only do this for files on the same partition as the TrashCan directory, and the icon could not be left out on the Workbench. ETrashcan can handle files from any partition and still allow you to undelete the files afterwards.



the trashcan can be rescued later

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To use the following program you need to have the Magic User Interface installed on your system. Without it you will not be able to run any MUI programs. MUI is available rom any good PD house.

### MUI MULTICX PREFS

Author: Jurgen Kempkes

The real problem with MultiCX is that there are so many functions that you can alter, and it takes absolutely ages to go through every tooltype in the information requester and adjust them to your own taste.

This preference program gives you a lovely MUI front-end to fiddle with, and is right up to date with the latest version of MultiCX, also on this month's disk. Consequently, you can now access every feature of MultiCX without worrying about having to go through the horrible information requester.

### **XPK**ATANA

Author: Eric Sauvageau Workbench 2.04

For anyone who uses XPK you are still probably using the xDrop program that came with the XPK library, or possible xpkNight, to compress your programs. Both are perfectly fine, but have their own problems. xDrop is quick and easy to use but is very basic, while xpkNight is very powerful, but a little overly complex if you just need to compress one file

XPKatana takes the best features of both and wraps them up in a tiny front-end. With all the powerful batch processing of xpkNight and with the option to run it iconised, you have the simplicity of xDrop.

### DISCLAIMER

directly by the use of these programs

### MONED Author: Raul Sobon Workbench 2.1

Trying to get the best out of your monitor is never that easy. If the standard supplied monitor drivers do not give you a decent picture then you have to put up with a poor dis

MonEd gives you a way around this by allowing you to adjust various technical aspects of the AGA chipset that will adjust the output to your monitor. With a little playing around this can lead to a better display, or at the very least a properly centred display. You should be warned that doing this could permanently damage your monitor, especially if you start using silly figures.

### XPK DATATYPE Author: Michal Letowski Workbench 3

The XPK compression library has been around for a good few years now, and has firmly established itself as the main form of compression on the Amiga along with Lha and DMS. There are many programs that have direct support for it and the various programs that allow you to add decompression

patches mean many people are using it. This Datatype adds XPK decompression to the growing list of supported Datatypes. Now if you drop an XPK'ed file into MultiView. instead of just being ignored, the files will be decompressed and MultiView will be able to handle it as normal.

### MOVE Author: Jim McDaniel

Workbench 2.04 One thing that has always been a really annoying omission from the AmigaDOS com mand set is the lack of any move command - you always had to manually copy and delete files. It might seem a little picky but if you do this sort of thing regularly it does get quite annoying. Just copy the move command over to your C directory and away you go. This command can take multiple

destinations if need be



### **SCREENKEYS** Author: Magnus Holmgren Workbench 2.04

One feature of Intuition that makes the Amiga such a good machine to work on is its ability to have multiple screens open at the same time. It helps to keep the screens unduttered and greatly increases the speed of window and screen updates as there is less to redraw. Screen keys lets you assign individual hot keys to specific screens. Therefore, if you want to jump to a screen you can hit the appropriate keys and the screen will magically appear, without the hassle of having to skip through

### ICONIFY GADGET

loads of other screens.

Author: Hakon Enger Workbench 2.04

You may have noticed on all MUI programs that there is a third icon on the title bar of the program. This allows you turn the program into an icon on the Workbench, so uncluttering the screen and letting you access other

programs easily. This program does the same, but for every other Workbench program. A third gadget will appear that looks the same as the MUI one, but there is an option to give it a sysihack 3D look. This is a commodity, so can be removed and restarted at any time.

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# madness

A replacement for the 1942? They must have learnt from their mistakes...

inally, we get an M1438S for review. We unwrap the box remove the plastic wrapping and have a look. Quite a nice looking monitor, colour matched to our A4000, the male IEC plug on the end of the power lead is a nice touch (so that you can plug it into the A4000's power out socket), and you do get a normal power lead to plug into it, so no problem there. The screen is pretty standard looking, with anti-glare etching, but is not PST. But looking at the front of the monitor is a bad idea because it is then that you notice the distinct lack of control over the picture presented on-screen. This monitor's complete controls list comprises: The On/Off switch, volume,

horizontal hold, vertical size, brightness and contrast. There are no pots to adjust on the back of the monitor and even the leads are moulded, but more on that later PICTURE PERFECT?

So what's the picture like? This is obviously the most important question on anybody's lips when they are looking for a monitor, and I have to say that it doesn't look good. Here at the office we run on an old 1942 monitor for which the M1438S is a direct replacement, and we thought the quality of the 1942 was pretty poor. Unfortunately, it shines compared to the new monitor. The M1438S gives an image on a 4000 that looks as though it is coming through a modulator, with blurry text and misconverged colours. I thought I had taken

and had had a few pints when I looked at our Workbench screen. Now convergence is a problem that can be caused by the monitor being hashed or in extremes of temperature or humidity, and since it came delivered by a courier I'm sure that it probably experienced all those things, so your best bet, if you are going to buy one, is to make sure you see it in action in the shop you're going to buy it in if at all

my glasses off

possible. The M1438S doesn't come with a disk with optimised DBLPal drivers designed to fill the screen as much as possible like the 1942 did. so it is left up to the end user to decide whether he or she wants to mess with hardcore utilities like MonEd or just suffer enormous black borders down the left and righthand sides of the screen. Although the M1438S is billed as being a 14" monitor, these black borders mean you only really get about 11 % inches of viewable area. These problems only occur if you are using the monitor in a DBLPal or DRINTSC screenmode, of course, and don't afflict the monitor running in standard PAL or NTSC modes, but what did you buy a multiscan monitor for if not to run the Amiga's higher resolutions on a flicker free screen?

So by now you will probably have worked out that while the monitor is shoddy for productivity, it might be OK for games players. To a certain extent this is true, but if you do both on a regular basis you will find yourself constantly fiddling with the horizontal hold functions to centre the screen when switching

between PAL and DBLPal screenmodes. But there's more trouble afoot. While the picture for Lo-res (the screenmode most often used for games) is actually quite nice and sharp, the sound that emanates from the monitor's speakers is nothing short of rubbish. As a test, we tried Worms and Nemac IV on the M1438S and the sound for both games was tinny and quiet, even on the monitor's highest volume setting. Even the much maligned 1942 achieved better results, as did a cheap pair of personal stereo speakers we had lying around.

### PURCHASERS

So who is supposed to buy this monitor? The only people I can think of who would actually go out and get one of these things is someone who is sad enough to value kit with matching company names on each piece as opposed to the best possible choice for each item. As such these are the only people I can recommend Amiga Technologies' M1438S monitor to. Caveat emptor.



### PRODUCT DETAILS Supplier

### Amiga Technologies £299 99 Available from most Amiga dealers

### SCORES

ase of use	10
mplementation	3
alue For Money	3
II	

### LUG PROBLEMS

Although it might seem nice at first that Amiga Technologies have put a moulded 23-pin plug on the M1438S, if you need to use it on an Amiga other than a bog standard A1200 or A4000, or even a different machine, then you will come in for problems. If Amiga Technologies had litted a plug to the back of the monitor and provided a 15-pin VGA-type lead with a 23-pin plug on the end, then at least Amiga 3000 owners or graphics card users could have bought a replacement VGA-type lead to plug into the monitor.

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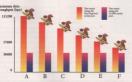
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- Surf Squirrel interface.

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H 4 4 1 10 10 11 DELETE PLAY COPY ALL INSERT LOOP

MMME's unique effect line is very clever, if a bit long-winded. You can assign effects each of your elements including page effects, sample playback or animation speaking.

Not a review of an old Jimi Hendrix album, but the latest multimedia authoring package. Frank Nord checks out MMExperience

perienced?

makes the program look less detracts from its ease of use. And then, the fact that you have to name pages in upper case only reinforces

the idea that you are playing with some sort of PD demo-maker. Before I'm inundated with letters of righteous indignation from all and sundry. I would like to say that, in my opinion, programs that don't look nice on the screen don't help the Amiga's public image as anything other than a cheap, low-class games machine. This is a great shame because MME has some definite good points. I probably shouldn't concentrate on appearances in a review, but this sort of kiddle block interface really gets on my wick.

Unfortunately, the feel of the software proceeds to get more annoving, with new projects requiring the user to input a name which is then made into a directory in which everything is stored. Not a problem in itself? No, but then you can't use anything at a lower directory level in your production, so you have to make sure you create your productions at the root of whatever device you are running from - even more of a pain if you spread your elements

### PROBLEMS?

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DPTONIC

Here are some of the problems I encountered when running MME:

# Firstly, it was awkward to set the screen to Hi-res Laced. MME always wants to run in Lo-res which means everything looks incredibly blocky.

■ The next problem I encountered was with the Add Font button in the fonts requester. It took me to Fonts: but then didn't do anything further. This meant I couldn't odd any fonts to the three supplied with MME - two sizes of a blocky helvetica and one bolder BaselCB, all at a low size. I finally figured out that it must be because of the CacheFont program that I run, but that must mean that MME grabs a fontlist in a way not thought of by CacheFont's author, odd since no other program I have ever used has had a problem with it. My third problem was with the F/X button. I set up the

random effect for the pages in my project, which worked fine for the first run through. But I discovered that when the project has run through once and is then cycling through again, the F/X selected reverts to the default of Fade In. It doesn't make any difference how often you click on the bloody random button, it still reverts back to fade in.

Another problem I encountered was that the tutorial in the manual referred to files I didn't have included when I installed the software

But by contrast, one of MME's really superb features is its runtime player which is free, small (it's only 167724 bytes and crunched with PowerPacker that goes down to just 98756 bytes) and it runs on any machine. This is incredibly important because it means that no matter whether you are creating a presentation for your own use, or creating a CD that you will sell thousands of copies of, you won't have to pay Optonica a license fee or royalties

b) the Amiga's own GUI is fine for any application. MME uses the same dark bluey-greys used by all Optonica's programs with square buttons everywhere and great fat borders around them. I'm sorry, but the whole thing 20

f course, all of Jimi Z

old. He's been dead for a

come as something of a shock. Still, that hasn't

stopped John Lennon or Freddy Mercury, so

maybe I should just shut up on that front and

get on with reviewing MM Experience. OK, I

Sooo, MMExperience, eh? Well, first impressions with Optonica's program are 'Hmm.

vecch... tum-ti-tum... bugger'. Let's go through that, shall we? The first expectoration was for the look of the box, manual and disks; the sec-

ond ejaculation was for the look of the soft-

ware interface; the third was the wait I had

when I loaded a picture and waited for the pic-

ture to remap, even though I hadn't set up a

palette (besides which, all the images I used to

test MME with use the same palette, it's just

that MME insists on using the bottom four

colours of any palette); and the last was the

trouble I had trying to get MME to do

It's not a good start is it? Firstly, why do peo-

ple insist on creating their own custom gadgets

and interfaces when a) they are really ugly and

something fairly basic - a slideshow

hear you, alright?

while now, so a new one would

Hendrix's albums are

The FX page allows you to choose your ired transition from sixty choices

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### HHHIDDE FX FX A PREFS () DUPE PAGE IMPORT PAGE PUBLISH The tricklest thing when you have an enormous script is to be able to quickly go to the right page, but MML's page finder makes this easy.

### BROTHER IS WATCHING YOU...

I may seem to have been somewhat hard on MME, but it does have a good pediaree, coming as it does from the stable that produced Interplay, the Amiga's only dedicated CD authoring system. When you consider that Interplay cost over E700. MME certainly seems better value for money. Optonica are also launching the successor to Interplay called MMExperience Pro - shortly and it will build on MME's base but include for more facilities, admittedly at a

Even so, MME Pro will be just the product the Amiga database features and indexing ability. MME Pro will hopefully push the Amiga's multimedia capabilities to the fore. MME Pro will also come with ISO build software so that it can be used by software houses as a one-stop solution for creating, much needed, new CD products for the Amiga.

MMEPro also provides the following features:

# Automatic file substitution to take account of PAL/NTSC and ECS/AGA configurations # Project management so that your target machine won't run out of RAM

CDDA support and much more.

U MME's prefs, including screenmode, etc. can be set here, but seemingly not saved.

provided with MME, or at least, some fonts. Although MME doesn't support datatypes (it really ought to, they've been around for over two years now and are very useful for a multimedia package. Obviously, the problem with this is that it would make the package Workbench 3 compatible only, which is probably why they are not supported), it does recognise any sort of IFF ILBM graphic format including, surprisingly, 24-bit, Like 24-bit files it renders down HAM and Ham8 files to ExtraHalfBrite or 256 colours where possible. but you should render these sorts of files down yourself using ADPro or something similar if at all possible, as the results from using an image processing program are far superior to MME's output.

U MMF doesn't also you the facility to type text directly on screen necessitating the



have taken a leaf or two more out of Scala's book'

INAL WORD

"I don't want to get into a slangingmatch with Scala as MME is very obviously aimed

wonder if Optonica shouldn't

MME isn't a bad package, it's just a little odd. If only Optonica would drop the silly interface that plaques all their software I would be much happier with it. MME doesn't provide the user with the snazzy text effects that Scala boasts, you can't scroll text with it and the page effects have no parameters. However, MME will almost certainly replace Gold Disk's ageing Hyperbook as the product of choice for people creating mini-encyclopaedias about their favourite topics, whether they be World War II planes, or Tutankhamun, because it is ideally suited to such tasks.









# PRODUCT DETAILS

Product	M.M.Experience
Supplier Opto	
Price	£39.95
Tel	01455 5582 82

SCORES	
Ease of use	60
Implementation	60
Value For Money	99
Overall	759

# ■ Touch screen support

needs if it is to get any sort of Encarta-type product. With its

over more than one device. This makes even less sense when you consider that MME actually checks what you've created to make sure it's all in the right place when you 'publish' your production. By contrast, if you create a script in Scala and then you want to distribute it on floppy, Scala will happily move all the files you used to the floppy for you. I don't want to get into a slangingmatch with Scala as MME is very obviously aimed at a different audience, but I wonder if Optonica shouldn't have taken a leaf or two more out of

I feel all scratchy after that and I really want to point out MME's better features. If you ever owned a CDTV, you'll probably remember the World Vista Atlas which had a nice database feature where you could look up things like the GDP of Chana and what passes for a folk song in Alsace. You can create such things easily (if at length) in MME.

### **EASY ACCESS**

It's also possible to create an index which refers to all the pages you've built so far, allowing to easy access to information. The Index page which is preset doesn't allow the user much control over the way it looks - always a muted grey affair - but it can be used as a file requester of sorts and also act as a glossary for which the user needs to build a text file. This is the essence of MME. It doesn't do anything you couldn't do quicker, it concentrates solely on doing stuff that you wouldn't be able to do.

This is the reason why one of the buttons on the main panel will allow you to access a userdefined list of programs and run them. So now you will be able to run your paint package, text editor and module editing package from within MME without having to return to the Workbench first, so that you can generate the images, clipart, buttons and text you want to use in your production. All the same, it would have been nice if there was some clip art use of a paint package for text like this

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here are many good hings like have come out of the North West - Lowry, Boddington's Bitter, Chips and Gravy Pae Wel (ask our Deputy Ed) and Amiga Computing, But what most will associate with the area is a TV studie that has created some of the most popular dramas, soap operas and quiz shows we know today, Called Granada, it produces such hits as Cracker, Coronation Street and the Knytoln Fator.

Krypton Factor. But these programmes also have another factor in common, and it may come as a surprise to learn that this is the Amiga. Okay, it would be an exaggeration to suggest that the Amiga has a starring role in these first two, but it does have a significant walk-on part. Watch Cracker, for example, and you will see Fitz (Robbie rane) tapping away on none other than an Amiga. Or Coronation Street where Curly Watts once had a bit of trouble with the BettaBuys store computer, played by an Amiga. Prime Suspect's police station sets have also benefited from the Amiga. However, in some cases the Amiga, tunately, has to undergo a dramat ment and appear as a PC. A PC box sits on the desk whilst the Amiga sits on the floor KHz flicker-fixed output from the A3000) le-eyed viewers will spot the give-away

cite of a PC with an Anniga heyboard!
The Annigh's success in this periodified field is due to its native 500tr sides Inner many of the PC with the Inner manner of coupled with the anniest challenge with the sentence of the PC with the Inner many coupled to the Inner moving you'll beir which non-naive emiliate the moving you'll beir which non-naive emiliate move of the water for the Inner move of the Inner many of the water of many of the Inner many of the water of many of the Inner many of th

often end up off-screen, typing on the Amiga keyboard whilst the actor mimes the action in vision on a dummy

Realism is important in dramas like Cracker and Prime Suspect. so the Amiga programs which Martin writes have to appear like those on other machines (e.g. the dreaded PCs). With much of the action involving

police computer systems

Martin was invited to one of the Manchester Police computer rooms to see the Holmes Investigation system and was provided with authentic screen layouts to

### recreate on the Amiga.

secticiam puper and operator.

But whith perhaps in the montalitiesting use the many at Consada is in the quite thou. The Arrayant Facilities the Amiga of Consada is in the Amiga of Consada is the Consada in the Consada is the Consada in the Consada in the Consada is the Consada in the Consada

c) The contentants answered questions at the touchscreens system acting as a still-store with all the displays which the contestants saw on their touchscreen monitors. A custom content to the contestants of the contestant of the con

their buckareer monitors. A custom control program, written in SSC, displayed the contestant-scores and a selection copy of questions to ensure that the computer stayed in your with fordion Burns asking the questions, while almage display was overfaid often the PRI output via a CPUC remark to provide, it can provide profitant names (SCOT, 2018, departure of the production teal.)

On top of this the Amiga was controlling lights on the contestant's desks which briefly illuminated the first, to correctly asswer each question, plus generating a sound effect to cue the question master to ask the next question. This made for quite a complicated system in which the Amiga's multi-tasking abilities were exploited to

The touchscreens work more on the principle of a touch 'platform'. As Martin explained: 'The 'Touchmate' system looks like a set of bathroom scales, but with a set of precision sensors at each corner.



cces M.I.C.R.H. HOLMES - Major Enquiry System



On the trail of

how the Amiga has found its niche in many different corporate sectors, Tina Hackett investigates its latest tole in the North-West's top television studio

## SALFORD «

	JILL JOHNSON	SALFORE
	RICHARD LUHAN	WORSLEY
	ROBERT DAVIES	OLDHAM
	NORMAN HARDWAY	ALTRING
Lina C	CHADITE DEAN	

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

O It's a Cracker! Remember to scene where Fitz is answering calls on his radio station? This again was on the Amiga



O For 'A Touch of Frost' a engrab was made of a PC running Superbase

works by detecting the minute pressure differences which occur between the various sen sors when the screen is touched." This has the advantage that any unmod fied TV or monitor can be used, provided it is firmly located onto the platform. After a calibration routine, which involves rocking the screen and pressing on the four corners, the system can send out a stream of ASCII codes giving precise co-ordinates whenever the screen is pressed.

### LASER TESTING

The Amiga was also used in the Krypton Super-Round as part of the Laser Matrix. Four Amiga 1200s were placed on stands for a round which would test the players' mental agility to its limits - and prove very decisive in the final! What Martin was asked to do was create a program in which the keyboard was remapped

The contestants had to solve four word clues using the altered keyboard before proceeding to negotiate their way through the laser beams. With a sensor connected to the joystick port, the Amiga would signal a time penalty if the beam was broken by controlling

"When the series was being recorded, the Amigas were out of production. Commodore UK kindly lent us the four A1200s'

the studio lighting system, and playing a sound effect. What the contestant had to do was find the code to spell out each word. Say, for example, they typed the letter S. It would come out as a T because the keyboard had been altered to make the letter change to the following letter in the alphabet. The contestant would have to work

this out and break the

Martin hoped that

showing the Amiga

onscreen would get

for the machine: "When

the series was being recorded, the Amigas

were out of production.

Commodore UK kindly lent

us the four A1200s. I was

hoping by the time the

some positive publicity

A1000s to A3000s) and has a collection of plug-in Zorro boards. He remarked: "There are too many to fit in any one machine at a time, so I'm frequently swapping boards." These include ethernet cards, XSync VITC/LTC timecode readers, genlocks, Harlequins and the PAR playback/capture cards. Other useful peripherals include a DAT for backups, with Diavolo s/w, an HP Scanner, and a Wacom tablet for use with TV Paint. "The combination of TV Paint and the Harlequin card is unbeatable at the price

Martin uses a number of Amigas (from

explained Martin. "It's the only system that gives you a genlockable broadcast quality 2-bit RGB display with a linear key output as well. Together with the ZCG32 caption generator, all the question/answer graphics and text for the Krypton Factor were produced using this system. This is work which otherwise would have been done on Quantel Paintbox and Aston

Capgens. Together with PAR, it opens doors for the Amiga to do broadcast work which is not usually associated with the machine."

series was transmitted, the Amiga would be back on the shelves, which is more or less what happened."

OW AND ZEN

Martin Kay has now set up his own company called Zen Computer Services. They specialise in video work and Martin's expérience with television and computers gives him an advantage in this field. His other projects include a teleprompting system which he has sold all over the world: "I'd seen similar things on the PC and they're very expensive. I realised there was a market for a cheaper version and that this could be done on the Amiga. Most go to America where they are used by cable TV stations or college media courses where there is a need for a cost-effective solution." He has also produced a French and Arabic version.

His work has also proved invaluable in the world of televised sports. Thanks to his snooker scoring system, he has made the life of graphics operators a lot easier in a game where it can be difficult to keep up with a fast potting player making a big break. The Amiga provides a friendly front-end to control the caption gene tor, and the operator has only to click on the ball which has just been potted and the computer keeps track of the score and break totals.

The Amiga has also been used for Rugby, Ice Hockey, Darts and Football where it generates the small



Martin Kay explains how the Amiga was us at Granada. His company, Zen Compute Services, has also developed many other ive uses for the Amiga in television

clock and score displays seen at the top of the screen throughout matches. This sounds trivial, but life would be so much more complicated if you came in from aetting another beer from the fridge and you couldn't keep

track of the score! Martin has found the Amiga ideal for subtitling on programmes such as Disappearing World and Great Railway Journeys. With a timecode reader providing exact synchronisation to tape, the Amiga can be used in both off-line and on-line environments. Off-line, the regular Amiga output can be genlocked to provide subtitled VHS preview copies, and on-line it can give broadcast quality output via the Harlequin, or control an Aston Capgen.

Zen Computers have also provided computer software for Yorkshire television's detective series, A Touch of Frost. A recent scene involved on investigation into a suspect Escort Agency where Frost was looking through a database of pictures. However, the Amiga had to look like a PC running Windows so a screengrab was made of a PC running Superbase, and the rest programmed on the Amiga. Amiga veterans will appreciate that Superbase started life as an Amiga program before ever becoming a Windows product

ZEN Computer Services can be contacted on: Telephone: 0161-793 1931 Email: 100046,3675@compuserve.com





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### TOTAL! AMIGA WORKBENCH

Having owned an Amiga for six years now, it is sometimes easy to forget the problems that beginners can have with using a new machine, I started using Workbench 1.3 which seems light years away from the relative luxury that Workbench 3 users now have. Even so, learning to use Workbench can be difficult so a book on the subject could be useful, if it covers the right areas.

The main thrust of this book is to go through every aspect of the Amiga's Workbench, no matter how small, and explain what use it is to the user. This goes from the basic roots of a WIMP system, explaining what icons are for, how you use each of the menu functions, and windows, to explaining the use for every utility and program you get with the Workbench

If this all sounds strangely familiar, then it might have

something to do with the fact that all these things are outlined in the original Workbench manuals that come with the Amiga, in a very familiar fashion, along with the same sort of screen grabs of the various preference programs and utilities. This is the main problem with the book - it does not do anything really different from the original Workbench

Towards the end of the book there are a few worthwhile chapters. An explanation of CrossDos along with another on CD-ROMs and Viruses are helpful, but I think what is covered is a little brief and a general DOSdriver chapter would have been more useful. Overall, this is firmly aimed at the absolute beginner and even then I cannot see any real advantage over the standard Amiga manuals.

Bottom line

### PRODUCT DETAILS

Product	total! Amiga workbench
Publisher	Bruce Smith Books
Tel	01923 894355
ISBN	1-873308-55-8
Dales	C10.00

Three books from Bruce Smith's

new 'total Amiga' range get the Amiga Computing treatment. Neil Mohr gets his reading glasses on

From Paul Overaa, possibly the guru of Amiga programming, we have the complete beginners guide to Assembler programming on the Amiga, of which there are two distinctive sides. One is involved with getting the absolute performance out of the machine by discarding the OS and 'hitting the hardware', while the other takes the 'proper' programming route via using the operating system functions

This book goes for the last option, which some demo coders may scoff at. However, with games like Breathless and Nemac IV. both very good Doom clones, using Intuition screens and multitasking with the rest of the operating system shows what the Amiga's operating system can achieve, and there is no real need to simply disrand in

As you may expect from Paul Overaa, this book is excellent. It covers the basics of explaining about the 68000's status, address and data registers right through to a full description of all the 68000's instructions, starting off by giving the reasons you would want to use Assembler over high level languages. On the surface it may seem mad to use Assembler at the OS level, over C

or AmigaE, but there are good reasons The all-important subjects of addressing modes, data movement, assembler subroutines, and the usually

OTAL! AMIGA ASSEMBLER

ignored subject of program design are all well covered, before moving onto the trickier subject of the actual Amiga OS programming. Almost 300 pages are taken up with describing every

aspect of Amiga assembler programming. It is quite interesting to see a quick overview of C is given in the appendix. This is important as all the autodoc examples from Amiga Tech are written in C, so it is actually a handy inclusion. I just wish I had had this book when I was learning assembler.

### Bottom line PRODUCT DETAILS

roduct	total! Amiga assembler
ublisher	Bruce Smith Books
iel	01923 894355
SBN	1-873308-57-4
Price	\$24.99

### OTAL! AMIGA AMIGADOS

The other side to using the Amiga is AmigaDOS. Normally used through the shell, AmigaDOS is a much more difficult beast to master than the Workbench, but potentially far more powerful and quick to boot. The down side is that with an A1200 there is absolutely no documentation describing how to use AmigaDOS. So a good learning reference would be an extremely good idea.

r To

total! Amiga amigados is just that, taking you from the basic reasons for using AmigaDOS over Workbench, how to enter commands, through to the beginnings of script writing and a brief

description of ARexx. The book starts with describing basic disk, file

and drawer operations, giving good clear instructions of how and why you would want to use each function and shell command. There is also an explanation of the pros and cons of using the Amiga's very handy RAM Disk

That other constant pain in the rear for Amiga users, the Assign, is covered along with the path assignment, and chapters detailing the startup sequence and user startup are always going to be of use for the beginner.

Even though this is a book aimed at people learning about AmigaDOS, there were a good number of things in there that I found useful to know. A full list of the shell's keyboard commands highlighted a number of useful functions I did not know about, along with a good explanation of all the AmigaDOS wildcards you can use. I could not say this book is essential, but anyone

planning on using their Amiga for anything more than playing games will gain out of having a copy.

# ottom

### PRODUCT DETAILS

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POWER.

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new idea indeed. Rather than the usual 50 minute video tape telling you a whole range of things you already knew, in focus's 'Layout tips and Tricks' video is a breath of fresh air. For a start it is accompanied by a CD-ROM containing all the tutorial scenes talked about on the video tape and, unusually for LightWave-related products these days, has separate directories for PC and Amiga owners along with hundreds of extra bits and bobs like motion clips, images, benchmarks scenes used by LightWave Pro to check the speed of various LightWave platforms, and loads and loads of objects from both the Syndesis and Viewpoint Datalabs

Secondly, the video itself is about 70 minutes of very detailed information about only a few topics, namely how to composite LightWave output with live action successfully, the use of inverse kinematics (new to LightWave 4.0, but don't worry if you aren't using this version, the tape still also deals with bones and morphing targets), lighting and how to achieve realistic looking neon, amongst other things. Embedded in the detailed explanations of how to achieve all these targets are little gems of information that will come in handy for other things.

### ANIMATIONS This tape is presented by, and based around

the work of, Mark Thompson who created the benchmark LightWave animation when he designed 'One stormy night with Fred Floats' The animation details how Fred Floaty, a sad and lonely buoyancy aid, sitting in a travel agent's window on a cold and rainy night, fantasises about going on one of the exotic holidays he is supposed to be promoting. He slips into a reverie of floating in a swimming pool somewhere hot and sunny, whereupon he loses his glasses in the sparkling water. They sink down through the swimming pool water and in the distance a shark is seen rapidly approaching



### The shark gobbles up the glasses and disappears off into the distance. But then it returns wearing the glasses, on a collision course with Fred Floaty. The dream ends with a shot of the shark's gaping maw as it is about to devour

Fred, and he comes back to reality realising that his lot isn't such a bad one after all. Mark Thompson explains how he put the animation together and uses it as an example of how to update old animation techniques with newer versions of LightWave. Thus, with the fact that Fred Floaty originally used a set of morph targets for its animation, Mark Thompson shows how bones and finally IK

make the whole process much easier - on memory, on the learning curve and on you. Mark also lets us into some important secrets he uses to optimise his animations, but is also keen to point out any possible disadvantages, giving the viewer a balanced opinion rather than the more bombastic This is how you must do it' approach.

# tocussed



### VERALL

A new idea in LightWave

tutorials hits the streets

Ben Vost investigates

This is a great tape, provided you are already experienced with LightWave, and one you shouldn't miss for the depth of detail that Mark Thompson goes into. The CD-ROM included with the tape makes for an added incentive as well as a very sensible way of taking the tutorials further. Like most tutorial tapes that are this advanced. the emphasis on having high-powered equipment is very obvious, so be warned that many of the scenes included require a really stacked Amiga.



# motice

LightWave



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### OBJECTS

The objects on the CD come under three categories: in the Gifts directory there is a complete so which should be familiar to readers of LightWave Pro - it is a very nicely detailed rendition of a Hummer (a military light assault vehicle) driving through the desert leaving tracks in the sand, but be warned, I didn't have enough RAM on my 18Mb Amiga to render the scene once it had loaded. Next up is the Syndesis directory which contains a selection of models from their 3D-ROM CD. As

on the 3D-ROM, very lew of the objects have been LightWave-isized, meaning they are out of scal with one another, polygons haven't been rationalised, and the surfaces haven't been edited. The last collection of objects on the CD is a nice surprise - Viewpoint datasets other than the tired old surfboard, hammerhead shark and Al Capone figure including the Sydney opera house, a Mark3 WW Golf and Big Ben. As usual with Viewpoint objects, they haven't been surfaced and you might need do some editing for single- and two-point polygons, but that is normal. All in all, the CD is practically worth the purchase price alone.

rk Thompson's award





eo at your fingertips with VLab Motion

AMIGA COMPUTING

t's not often a milestone appears on the scene, something which simply redefines your thinking regarding what's possible with a particular platform. Products like the Video Toaster, Scala LightWave and the PAR animation recorder have, in turn, marked the Amiga as a unique machine in the eyes of creative media professionals

everywhere. Needless to say, the Draco fits, if not breaks, this mould by adding a completely new level of power to the traditional equation of Amigabased desktop video. However, as you're probably well aware, the Draco isn't actually an Amiga at all. In fact, it's a completely new machine which takes the Amiga basics and expands upon them, exploiting the talents of the Amiga OS whilst adding a unique blend of CD quality sound, digital off-line encoding, editing and playback with state-of-the-art DVEs and a true 24-bit.

Thanks to their efforts as the Amiga's most prolific third-party supporter, MacroSystem Germany have built all the principle elements of a standalone machine, the keys to this being the Retina 24-bit display board, which in the Draco ships with 4Mb of RAM and CyberVision drivers, the Toccata sound card, offering stereo 16-bit audio direct to disk recording and lastly, the allimportant digital video skills of a VLab Motion digital video recorder/player.

### MANAGEMENT

With sound vision and system management all taken care of, there is, of course, still the small matter of the CPU, not to mention the all-importent I/O connections that make up any modern machine. The solution to this is a 'Draco direct' plug-in motherboard with all the necessary I/O connections - such as HD floppy drives, parallel and serial ports - combined with an 040 or 060 CPU, on-board SCSI II controller and space for up to 128Mb of RAM - via standard 72-pin SIMMS. Throw in a few QuickLogic chips for Kickstart and other OS essentials and... Robert's your mother's

brother - an Amiga on a cardi Fire-up the new machine and on the face of it the Draco looks every inch an Amiga - but with one major difference. The Draco does not have AGA, or in fact any part of the Amiga's custom chipset, even though a whooping 4Mb of chip memory does appear on the menu bar courtesy of the Retina's on-board memory Obviously, the lack of AGA does preclude

### OOK AND

During the evolution of the system it must be said reliability and crash resistance has been an issue regarding the VLM and Movieshop compendium on normal Amigas. But thanks to version 3.0 of the MovieShop software, the system is now rock solid, even at the highest possible image quality

In the case of the VLM card tested, this translated to an attained, and more importantly maintained, 90 per cent Jpeg compression, which in real terms means virtually identical image quality between the encoded and original material

This evolution of the MovieShop softwar is a testament to Macrosystems' growing awareness of what the market demands. It

### PRACO DEMOGRAPHIC

The basic DV system consists of the following: the VLab Motion, Toccata, Retina and the 060 CPU and I/O combo, a HD floppy and lastly, a quad-speed CD-ROM. The latter contains all the necessary system software in the form of Workbench 3.1, MovieShop, Toccata, Draco and Retina control and utility software, Samplitude, ADPro 2.5, MorphPlus Unfortunately, the plan to incorporate Shape Shifter - the

Mac emulation software - as a standard part of the Draco certain applications from the Draco, notables including Dpaint AGA, Brilliance and, worst of

all, Scala. Basically, any software that requires

the AGA by default, or in Scala's case relies

heavily on Amiga specific RAM calls won't run.

However, this isn't as catastrophic as it sounds

Okay, you've got all the elements for a

world-beating DV machine, but even at the

basic asking price a Draco is still a big invest-

- check out the big picture for more info.

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software suite hasn't come to fruition. Apple, as yet, have not confirmed a license agreement regarding the Mac ROM file due to concerns regarding their traditional support policy. Undounted, and with the aid of a System 7.5 installation

CD, I set-up a Pseudo Mac on a drive connected to the external SCSI port which, with the combination of 060 and Retina's blisteringly fast screen update, easily out performed my Quadra 700 at work. Big raspberry to those grumpy guys at Apple!

in the form of plug-ins for your existing kit.

Fortunately the Draco does offer another unique feature in a new machine, namely backwards compatibility. Admittedly, this is a weird concept regarding a new computer, but when it comes to existing MacroSystems' hardware, compatibility ain't a problem. Existing Toccatas, VLab Motion cards and Retinas all work perfectly well in the Draco, and as a consequence. MacroSystem are offering a mix and

match option to complete the Draco equation.

Jargon box VLM - VLab Motion, Macros System's supe

DVE - Digital video effects. Things like wipes,

software, and allows the two to work together

DV - Digital Video, something that is becoming

Me + 27

CPU - Central Processing Unit. The part of your computer that does most of the work

### ment for the enthusiast - especially if you've already invested in some of the key elements DELIGHTS

The real essence of the Draco's appeal is its ability to operate as a true off-line editor/digital video effects generator. In that domain it stands head and shoulders above the apposition with around 50 DVEs already available and more coming online all the time. Almost inevitably, the PAR card gets a mention when you're talking about Amiga-based digital video However, the only common ground between the two is the fact that both can encode and playback video. That's where the similarity ends... The Par is an animation recorder. whereas the Draco can do that, and an awful lot more hocidos

Unlike the combination of the PAR and SunRize AD516 direct to disk recorder, the Draco offers a seamless combination of audio and video with the ability to act as a truly digital AV editing system. The audio and video elements, by default, are hard-wired together so, as a result, when you cut, copy and paste within MovieShap, exactly the same edits apply to the accompanying stereo or mono sound.

If the need arises, you're still free to record or import additional sound and then edit, mix, and export sound tracks, or even mix live via the Toccata's multiple inputs to generate a perfect combination of sound track, backing music and voiceover. Even when the audio has been recorded, you're still free to adjust its length, copy it, reposition it as a separate element on the Timeline, or transfer it between video clips and scenes. Better still, you also have complete control over the sound envelopes of the samples vou're working with. As part of MovieShop's Timeline control, you're provided with an envelope requester which enables you to insert multiple edit points and adjust sound levels appropriately. Consequently, you can introduce frame occurate volume changes and even cross-fades between different audio tracks in different video clips. In short, complete control over the sound dynamics within the production

As a finishing touch, there's even a built-in SMPTE timecode generator with which to strip a tape - assuming your creation is to be passed on to a third-party production house.



O Draco's graphical power resides in this card

### FEEL

the past, much of their software could quite rightly be described as over-engineered, with seemingly endless user options clouding the overall picture.

Fortunately, a more Mac-like approach to design is beginning to prevail. This doesn't mean MovieShop is exactly a no-brainer for the user, but it does mean the learning curve is flattening out dramatically. You're still free to adjust with just about everything, but the inclusion of assorted presets and one click operations is becoming much more the norm.

Classic examples of this are simple things like preset window arrangements, which go a long way towards simplifying the sea of requesters that control the system. Another is

the excellent new preview window which can generate a mini preview of all your edits and DVEs in a video sequence, thereby offering a means of quickly testing things before you commit to generating the full frame effects a process which can be a lengthy procedure on a complex production. This is a seemingly obvious addition perhaps, but one that can save lots in wasted processing time.

One stop solutions such as slow motion and fast motion, either with or without accompanying sound, is another example. These are now built into software on a simple point and click basis which, again, is something which in the past was a real nightmare and involved a lot of manual labour.

### Post PRODUCTION

as step in a deep them less the Translate of and the all important special effects and and the all important special effects the shifting the actual blook is entirely non-retrievels in results, the process insight of the analysis of the shifting and an analysis of the shifting section of the shifting section of the said results of the shifting section of the shifting section of the extending section of all the existing section, and the shifting section of th



Aural delights are provided by Draco's Toccata can

### HE BIG PICTURE

One of the biggest concerns of a non-standard chipset and its affect on compatibility regards access to the Amiga bilitier. However, thanks to some clever coding, a direct and transparent replacement has been made via the Retino's on-board bilitter.

The Belinio way: in fart, the first card in the collection to go 'Draca

The Relina was, in fact, the lirst card in the collection to go Lived direct – pumping through 5.8Mb per second, making it one of the fastest graphics cards around – and one of the only ones which can run Workbench in full 24-bit, 64K or 256 colours in a variety of resolutions ranging from 320 x 240 up to 1600 x 992.

The Reino's natural diffully with Workbeach emulation combined with the ever growing range of software which supports RCD boards in a key factor in the development of the Darco. LightWiser, ADPro, ImagePX, Wordworth, and PageStream of Support RICs, and the list just keeps growing. As a consequence, even without the Custom Chipate, the Droco remains competible with the majority of Amiga applications.

### WHAT HAPPENED TO ...

During our original Draco preview a whole host of new add-ons got a mention, namely a Draco friendly TVPaint, a Draco direct VLM, a planned Dec Aloha co-processor, and a new 64-bit Retina.

The good news regarding TW-init is the release of vession 3.6 which, at long lest, deport require a desigle, and therefore will work periodicly with less than the second of the second

The rumoured 64-bit replacement of the Retina looks likely to be appearing with the others at NAB and promises full on-screen video preview as well as generating a genotracible output. ManoSystem are also working on a minor revision to the Draco Motherboard which will allow a plugie 113 SMH FC to become part of the Draco reportion. Assuming you add a Mac via ShapeShifter, that makes three machines in a single-box.



The beating heart of the Drace - the big of covered by a fan is a 50MHz 68060

It's not often a milestone appears on the scene, something which simply redefines your thinking regarding what's possible with a particular platform

### Bottom line

### REQUIREMENTS BLACK recommended

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system RAM, quad-speed CD-ROM E3670 (Approx) – with all of the above pix Toccata and VLab Motion 040 version also available – ask distributor for further details Hard drives sold separately

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 Ease of use
 90%

 Implementation
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 100%

# OUR SURVEY

Add up the system performance and price tag and the Draco is bound to attract many a serious Amiga fan, with the basic machine retailing cheaper than the almost mythical Amiga 4000T running an identical SOMM: 080 accelerator.

Impressive figures for a fully-featured digital video box with full off-sine editing. CD quality audio, haradasa quality digital video effects, 24-bit graphics, and much more besides. Look for apposition with this kind of spec of a similar price point and you simply won't find any.

The only other question, especially in the only other question, as case of use and system stability. As mentioned earlier, MacroSystems' software is synonymous with endiess requesters and user-definable options, but having sold with case of use is improving all the time. And other of ady or two with the manual, most people would find the Drous seand nature —especially if they'd used Amigan in the past. On the system side, there's visually no the production of the control of the control of the they'd used Amigan in the past.

difference between the Draco and the Amiga, so there's nothing to complain about on that score.

### hara's a slight

If there's a slight chink in the dragons's manuer is probledy on the display config side. As the old guard may recall, the Retine was originally lounched as a twin monitar system – a best during the set-up of certain applications with Retine screems, Reedless to say, the Droco doesn't have an Amiga RGB manthar port, and therefore, and the control of the control of the software can be a tricky business. Leaving this manuer point coulde, perhaps

Leaving this immor point assist, peringly the mast important point scorer for the Draco is the excellent stability of the system. In the Aimiga does, LLM and Toccata combos were a quirky combination, but the Draco is a much more said proposition which will run all day long without incident — and for media professionals, that clane is perhaps the strongest selling point of all. However, before you run ha haf-out to the However, before you run ha haf-out to the "However, before you run haf-out to "However, before you run had not "However, before you run had you "However, before you ru

bonk, it's worth bearing in mind that clithogh the Drock look seep in high and Amigo, it inn't in foot to pigeon habe the Drace on just another Amigo, at inn't in foot to pigeon habe the Drace os just another Amigo, as would be it a disservice. The Drace is, in fact, a fully fleeded mochine in its area, a fully fleeded mochine in its area, a fully fleeded mochine in its appearance of against Amigo Aki, it's still a valid chairs see machine that can take over the Thewwer, the Drace is piramilly a dedicated DV engine capable of Broadcast quality work.

In shor, if you're not planning to use the machine in its intended environment you'll be wasting an awful lot of its potential. Although a rather fred exuse, it's impossible to appreciate this mothine unless you see it for yoursell. Beleve me, if my lattery bolis drapped net Saturdoy a Droco would definitely be one of the first things on the shapping list. The UK's leading LightWave and Alpha experts

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### HARDWARE

### Do you have a hard drive?

If yes, what size is it (give the combined size if you have more than one drive)?

□ CD32

### Do you have a CD-ROM drive?

How much memory do you have (give details of Chip and Fast RAM)? Fast

What processor do you have in your Amiga □ 68000 □ 68020 □ 68030 □ 68040 □ 68060

Do you have a maths co-processor (FPU)?

Do you have a modem? □ 2400

□No

□ 9600 □ 14.4k □ 28.8k

are on your

☐ Business

software

☐ Music - MIDI

☐ Music - MOD

☐ Video editing

☐ Business

software

Q Music - MIDI

☐ Music - MOD

☐ Video editing

Do you have an Int F) No. ☐ Yes

Do you have a printer?

□ No ☐ Dot-Matrix ☐ Ink/BubbleJet Do you have a graphics card?

□ No □ Opalvision □ Picasso □ Retina □ EGS □ CyberGraphics

□ No □ TV/Monitor ☐ PAL-type (10845) ☐ Low-end Multiscan ☐ High-end Multiscan

What's your favourite piece of hardware?

What piece of hardware would you like the most?

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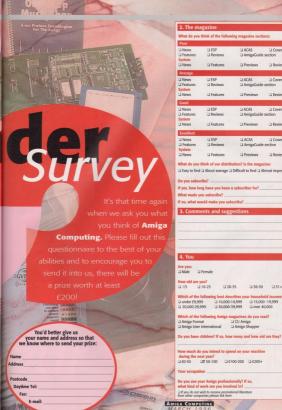
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☐ Video titling ☐ Business ☐ Animation ☐ Database ☐ Spreadsheet ☐ Word processing What's your favourite piece of software?

software ☐ Music - MIDI ☐ Music - MOD ☐ Video editing

What piece of software would you like the most?

# Rea



### 2. The magazine

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while ou you think of the following magazine sections.				
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AMIGA COMPUTING

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WISEDOME

effast, a name to conjure up in ages of murals with red hands, soldiers looking netvous, amoused cars and helicopters patrolling restlessly around, but these would be wrong unless you were to venture right into the heart of disputed territory, and even there the peace accord and cease-fire his meant a slackening off of military presence. But vasor's in selfast to report on the troubles, or their possible conclusion, but to visit two, quite

My visit, coincidentally, happened to fall on the weekend when the first Belfast Computer Show was being held, and the first people I was in Belfast to see were exhibiting their talents at the said show. It wasn't a good show for Amigas overall, with Arcom Multimedia being the sole proponents of the machine we spend so

much time writing about there, demonstrating and comparing Amiga-based multimedia with PC equivalents.

Most of the other stands were either highly technical, with Siemens. Nickorf having a large stand devoted to LAN/WAM. And the statemen with companies like Came showing of the Flyatistics on an encounting off the Flyatistics on an encounting off the Flyatistics on an encounting off the Flyatistics on an encounting of the Flyatistics on an encounting off the Flyatistics on an encountry of the Came showing the Came showing the Came showing of the Flyatistics were lovely and matched with the accompanying soundrask, very atmospheric, but the gamples seemed to

particular point on the screen).

As such, the mix was an uncomfortable one and the show was more successful for the serious companies during the week-

days it was open and vice versa for the gamers. Even so, Arcom managed to get leads from teachers wisting the show with their children, and from a couple of small businesses who had an interest in games visiting the show at the weekend. The teacher was interested in setting up an interactive kioolt and the small businesse were after corporate videos to demostrate their facilities to prospective customers.

Arcom are a fairly new company to the scene, having evolved from a money-main ing hobby to the point where expansion into a full-time business was inevitable. Ressell Moore, the hobbyist tumed professional, is in partnership with his friend and entshell wiferce Clarke looklike, Chris Astles. As Chris said to me: 'I hadn't even

Northern Ireland is a hotbed for

ood music, Guiness and also

Amigas, it would seem. Ben Vost

goes beyond the pale to investigate

The MPUTING AMIGA AMIGA



DigitalWinter - one of Tony's recent images was a proposed cover image for Amiga Computing

# HARDWARE GALORE

Accom Multimedia have a hardware inventory that would be the enry of many on Amigie enthusies, but olds contains one of the devil's machines – a PC, Unfortunately, the PC was a necessary purchase because of its Mpeg en

This machine is called The Beast and joins a menagerie of Amigos, all named to avoid confusion. First up is Walter, also known as Walter the Warp Engine for the TSMMH Warp Engine that powers him (her? it?). Walter is an extremely stacked machine. In addition to the processing power it can muster, it also houses the Digital Broadcaster card and its accompaning ADSS 16-b6 sampling and, and is the main LightWave rendering station.

Next up in Pinggy, on ARDO(USO with one of Scale's Merg cards, closely followed by Pinggy, it a similar morbinic tailys, Marty is the smallest member of the poot is Being only a moderately accelerated A1200, Runty's main use these days is recreational, but it used to be Access's maintest, The four machines are surrounded by CAPOM recorders, video equipment, scanners, genitods and DAT drives, and there's barely enough room in the office to breathle let done take placehouse.

used a computer before two years ago, but I saw what Russell was doing and wanted to be involved." Chris gave up his job as a boat builder to work full-time on the project and learned how to use Arcom's two main programs — LightWave and Applied Magic's

The Digital Broadcaster is a product that doesn't get much coverage in Amiga magazines, but it is the only broadcast quality, non-linear, video editing system in the world that is available at such a low price. Even so, the Digital Broadcaster is not the kind of

thing you pop down to your local shop to buy with 50p in your podest. The main cost for the system sin't even the card itself, but the hard driver required to store broadcast qualify video on. Arcom have 84Gb of store are proposed to the Broadcaster, and a further gigablyte for accompanying 16-bit ADS16 board (which is in to longer being made). This board is at the centre of Arcom's business and since the job that provided the money to buy it (and all its attendent hard inferes), it has been in constant use for directly in the provided the money to buy it (and all its attendant hard inferes), it has been in constant use for

# ANATOMY OF AN IMAGE



Tony Patrickson tells us in his own words about the creation of the Stimuloss image on this page...

Here, The image started off as a signal folia ordercreating of design that marged campater generated imagery with material scanned in from the 'text word. The original background image of a mile special processing and the started splitted several months in the started splitted in the started splitted in the while using various colour-mapping routines in Photostoph to produce this rather land various different effect. Noting imported it into larged this was then copped and existed to the correct resolution and super ratio for the task in head. Securities within a consideration of the contract resolution and super ratio for the task in head. Securities within



Digital Broadcaster.

ImageFX to smooth out pixel differences – which would have been necessary anyway as I wanted the background de-focussed to reproduce the photographic effects of depth-of-field.

The next stage was to get down to designing foreground elements: here's really no substatute on the Arniga for LightWave when it cames to working acids! However, the control of the control of the control of the through libers in three demensions. If already mode proporatory drawings on popter - pre-planning is a most if you don't work to get four it he interface or a later stage - so adopted these sides to reade interface or a later stage - so adopted these sides to reade interface or a later stage - so despited these sides to reade interface or interface or so that the stage of the sides of the sides straightforward process of creating a disc of the required disenter and using the ris destroin feature from the Multiply menu to acrusted the disc cloning or curve sketched in the background layer. Aboth the



'ariented' and 'segments=automatic' functions were selected in this so as to give a smooth extrusion in three dimensions Having created a number of these objects in

resump (relevel of arthure of interes deposite, see the major in the bar one in TDDD former for use in Imagines. M Why Imagine and not LightWisen W Well, in this case I waste of to make use of central procedured textures evoilable only in Imagine (in this case). Proceedings of Countrial Countria





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In this case, the lighting requirments were quite precise because the light in the background image had been from a single low-angle spot, so a single

with shadow as much as light itself.



spot was placed in the stage editor to illuminate the objects from beneath in a similar fashion. As well as occurate placement, the light colour was treaked to mimic the effects of the tungsten/artifical lightsource in the background image, with 'diminishing intensity' selected.

### ENDERING

After further tests, all the image components were finally rendered at print rather than screen resolution. The final render was then imparted into ImageRX for post-production and checking. Although the lighten and the back and foreground elements seemed consistent enough, I weak in happy with some aspects—the tom-positing looked too sharp in places, like that in the ci-cled one. This is a common purpliem when composited too sharp in places.



ing several elements irom dimerent sources, in unitthings can look too clean and artificial — our own eyes are used to a world that has dirt and shadow in it. The offending areas in the image were selected using the Treehand' tool in ImageRX, with pixel and shading differences then softened using Coussian, blur, and dorkening routines.

Whits the lighting and tonal ranges now looked okey, there were sight colour varioties that needed teecking to harmonize the image as a whole. After small adjustments to the CMTV values, I played around with the 'antique' filter from the Colour effects menu, Usually this just turns everything into a 'clickin sepic'. but I found that re-applying it several times gove the right host but bring the image begather, Finally, the file was saved-out of ImageR' and archived for transmission to the magazine. projects both large and small. Russell Moore doesn't really care about all the doom and gloom currently enveloping the Amiga market, in fact he almost approves of it. He likes the idea that the Amiga is a 'punk' machine, as he terms it. And he sees the Amiga going on long past its sell-by date, with people in the know buying up second-hand machines and scavenging parts from broken Amigas - sort of a Mad Max scenario, if you like. He thinks it's great that there will be people abandoning the machine in their droves and putting their old Amigas up for sale so that he can buy them and make them into interactive point of information kiosks at a fraction that it would cost for a similar set-up using a PC

Russell also believes that the Amiga will continue to be a creative machine with a hard core of dedicated users providing the software



chair to get this shot of them both

that is needed for the work the Amiga is best at, like multimedia, video titling, non-linear video editing and so on. Like most people intimately concerned with the Amiga for their business, he is despondent about its prospects over the next year, but hopes its sorry situation can be turned around. "It's not a machine that can be sold in shops like Disons, or even the Escom shops," I suggested that an approach more like the old Apple dealerships would be more appropriate, but Russell wondered if there was even the market for that.

Even so. Arcom aren't averse to publicising the Amiga in magazines like Ireland's influential trade magazine, Irish Film & Video, with a full page article on just how good LightWave is. The only problem with doing this is the worry that people will actually believe the article and go out and buy Amigas and compete with the services Arcom provides

"The Amiga is the world's best-kept secret. and we'd rather keep it that way," says





word epic into an Irish house

# THE MAIN

Tony Patrickson is an ad hoc lecturer at the University of Ulster in Belfast where he takes up the thankless task of showing the students (and even some of the teachers) there how to get to grips with electronic media. Most universities have computer equipment these days and Belfast is particularly well catered for with a nice mix of PCs. Macs and even a Silicon Graphics machine, but there is something of a generation gap between the administration, the lecturers and the students. where the administrators and lecturers are aware of the new media, but are more interested in the fields they learnt at university. like painting and sculpture.

It's a similar problem that was faced by people wanting to study photography as an art form earlier this century, and it will probably take longer to overcome owing to the prejudice against computer art, which Tony Patrickson thinks he has an explanation for. There are still a lot of people out there who view art as a visible expression of their wealth

and computer art confounds them because they can never passess it. I can make dozens of copies, each exactly the same as the first, and that bugs them because they can't hoard

Tony took a roundabout trip into the world of Amiga. He originally trained in sculpture and comes from an orthodox fine art backaround. But he wanted to get involved in the emerging computer arts field and, through speaking to a friend working at a production facility in Belfast, came into contact with the Amiga. Tony's main problem as an artist is one of funding, so the Amiga's low-cost and high quality combination made for a particularly attractive proposition.

He first act an A1500 about four years ago and worked with Deluxe Point and Imagine. pretty standard Amiga tools that everyone has access to. But two years ago, the ageing A1500 was definitely starting to log behind the current state of the art (to be very kind to it) and Tony replaced it with an A4000/030. He continued using a mixture of video grabs from his Vidi Amiga frame grabber and an evolving mixture of Imagine, DPaint and ImageF/X

When LightWave became available as a standalone package. Tony got the necessary money together in order to purchase what was universally acclaimed as a brilliant 'new' tool for 3D animators. Six months ago. he gave LightWave the kick in the pants it needed by adding a Cyberstorm 060 board to his setup, thanks to a grant from the Arts Council, but he has his eve on plenty of other additions to his setup that he will make when he gets further money - items like a VLab Motion come pretty high on his list. As you'll see from the pictures on the page. Tony uses stark imagery to make his point. He feels that colour can sometimes be a distraction, and that computer art in particular seems always to be oversaturated with bright tones that can get in the way of

the point of the image.



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# ESCOM KILL THE AMIGA?

This next letter was addressed to our erstwhile deputy editor Ben Vost

As a subscriber, I always read my Amiga Computing pretty comprehensively, but this month's issue (January 1996) was particularly ant

From your sombre coloured cover with the rather sinister 'Escom' figure, to the well-written and well-reasoned articles, I think you have captured the mood exactly and I would like to make a few comments of my own.

I came to the Amiga rather later than most. I was forced by an industrial injury to take early retirement, and my younger son, bless him, knowing I was in a lot of pain and unable to sleep at nights, gave me his trusty Amiga 500. I quickly became hooked and sold the 500 to buy an almost new A1200, just after Commodore went into liquidation. I set about upgrading the basic 1200 and now have a 1200 working through a HiQ Workstation, with a trapdoor expansion card to give me 6Mb RAM, a 170Mb IDE drive, a Sanyo CD-ROM drive and a ZIP drive, together with a new Citizen ProJet Colour printer - as you can imagine, I spend a lot of time and get a lot of enjoyment from my now lovely 1200 and this is increasing as I gain in competence!

But I live in an idylic setting miles from anywhere with far more sheep than people. When I first got the Amiga, there were quite a few shops at not too great a distance from where I live that supported it – certainly most



of them also sold mainly PCs, but usually there was someone with whom you could at least talk sensibly about Amigas.

Since Escom bought out what was left of Commodore it is quite noticeable how the Amiga presence has totally evaporated – certainly, as in your article, there are a few boxes with Amiga on them in both Tandy and Exom shops, but my experience in both was tar more pronounced than yours. This was particularly so in the nearest Exom shop, where I was told by one assistant, when commented on the Commodore' badge on an Exom PC "Yes, Exom are marketing Commodore now." Yes, asys I, I know that but what about the Amiga" "Separate company", says he. "Amiga Technologies have been set up to do the software, but the

Amiga is defunct and nobody is supporting it any more."

I will not tell you what actually said to him, but will leave it to your imagnation. Suffice to say, the next time I went into the shop demanded to talk to the manager, whom knew had previously had an Amiga, and asked him to explain company policy about the marchine. He looked really disconfitted and more or less.



Will **Amiga Technologies** ever get it right? It dosen't seem like it according to our **£50** prize winner

### RIMSBY WRINKLIES

I write on behalf of the 'wrinklies' in our Video Camera Users Club, who try to enjoy the fascinating hobby of video linked with the Amiga computer. About eight of our members have Amigas, mainly the A1200, and we have an extra monthly get-togeth-

the A1200, and we have an extra monthly get-together to exchange our knowledge regarding computer and video programs.

Our complaint is not aimed Af Amigo Composing, or the other Amigo magazines, but at the instructions given with coverdisk to get some of these very user of the programs working. For instruce, the installation instructions for Mainketor on the December 1995 instructions for Mainketor on the December 1995 installations for Mainketors for Mainketors for Mainketors for December 1995 installation groups in your C directory, and ado, "You will consider program in your C directory," and ado, "You will consider program in your C directory," and ado, "You will have been described in the program of the progra

This must look straightforward to you 'Young' uns' using computers, but to us retired 'wrinklies', well, we haven't a clue where C: is, where the user-startup is, or even how to assign anything!

is, or even now to assign anymmig:
This type of thing happens to us continuously and
we end up playing a stupid game that is essier to
load most of the time. We think it would be a good
idea for you to run a simple, basic instructions page
for us 'wrintiles' at regular intervals, which leads us
simply and step-by-step through these small
problems that stop us from enjoying these programs.
We do have one or two young members who
come alone to the meetings, their finnees working

faster than our brains, to get some of the programs working. They are like your contributors – they know their stuff, but cannot translate simply the various processes needed to get things working.

When we do get these video/computer programs working we really enjoy the processes of titling animations and all the other video-related programs you include, so perhaps you could recommend a booklet for 'wrinklies' on the most simple basics of getting things running.

Finally, if there is anyone in the Grimsby district interested in video and the Amiga who wants to know more about our club, give me a ring on 01472 877428. The instructions will be very simple, come and join us to help each other in our hobby.

\*\*Phill Borman, Grimsby\*\*

\*\*Phill Borman, Grimsby\*\*

First off, I would like to say soory for how long it has taken not to print your letter (it sirried here at the question, 60 year graph of the property of the question, 60 year graph get along Computing II so, you will know that there is a regular pape at the back written by one of our contribution. Nord, on how to keep your aming in tip-top condition. There are always a lot of shirts and tips for the whole range of Aminga seers, from beginners through to advanced in an easy-to-ereal style. In addition, this issue contains the third installment which the size of the size of the size of the aming, which the size of the size of the aming, which the size of the which the size of the size of the aming, which the size of the size of the which the size of the size of the size of the size of the aming, which the size of the siz

There are plenty of books around to help Amiga



users, such as those from Bruce Smith, but the real solution to your problem is to experiment. Make a backup of your machine before you do anything too drastic and press ahead trying to solve your problems. At least you'll be sale in the knowledge that you can always restore your backup and all you will have lost would be some time.

Get yourself some sort of file manager program like Optonica's InfoNexus which will help you explore Workbench's hidden depths, but experiment, experiment. Finally, we will be running a video feature at some point this year, so stay tuned and we should have a bumper set of video-related tools on our disks to accompany it

implied that they were only selling them while stocks lasted and that he expected not to get any more, and yes, he was the only one who knew anything about Amigas in the shop. He then excused himself and went into his office shutting the door behind him.

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Even the big people who also wholeheartedly supported the Amiga in every way are starting to lose heart in the face of the lack of support they are receiving from Amiga Technologies, and I am Amigal it is Escom's intention to kill of the Amiga in its present form and certainly not to support existing Amiga owners in any meaningful

I suppose that, in a way, I am lucky although I really like my Amiga I 200 and think that it can do virtually everything I could do an a PC, but far more easily and at far less cost and certainly in a more userfriendly way, if all else fails, ultimately, I could throw the AT200 away and convert my workstation to a PC using the CD, hard will then become a PC, after a few additions such as a PC motherboard.

But isn't it a shame? There are literally housands of enthusiasic owners who like and want to continue using the Amiga, despite its many limitations, all over the world. I think Excom ignore and treat to like if at their peri, and I, for one, would cretainly not buy anything PC from an Excom shop, if it came to it, even if it did say in Commodore on it in easily the same way

as my 1200 does. Many thanks for all your interesting articles and may I wish you and your team a happy Christmas and a prosperous and healthy 1996.

Ion Aisblit, Bedale, North Yorks

Ben replies: – Thanks very much for your kind words of support. I understand from Erra that you are a bit of a regular letter-

kind worst of support. I understand from Tarm flat you are a bit of a regular letterwriter to the postibug, so it m jads that he tarm flat you are the flat of the sound of the shops thing goes, since the magazine can out, I have had several people inc me up and give me their tale of use with regard to freeds and family attempting to buy Amigas. I really think that the whole that is presty sharely and that Amiga Amigas into Escons shops with some degree of Amiga sepreience.

As for Tandy, I spoke to the guy in their shop for perhaps the longest time and he was very sincere in his desire to sell me a PC, but when it came to it. none of the shops I visited was interested in taking \$300 of my money for an Amiga (apart from Silica, after some prompting). They all wanted me to go and get more cash or buy a more expensive machine on the

This makes me wonder how many sales of any sort of computer are being lost because of this perceived lower budget limit of about £650, which a lot of people just can't meet. When it comes to your suggestion that Escom want to kill the Amiga, I have to demur. I don't think they would have spent the money they did (somewhere in the region of \$50 million so far) if all they were going to do is dump

(somewhere in the region of \$50 million sof ar) if all they were going to do is dump the machine. However, their policies regarding the sales and marketing of the Amiga do seem decidedly odd, but as I know very little about big business advertising budgets or sponsorship deals, I can only assume that AT are doing what they can with the money they

On the other hand, the lack of support we seem to be receiving from Amiga Technologies is uspetting and curious, especially since the Amiga magazines are the only outlet for publicising the Amiga that AT currently have.

When all's said and done, the Amig will probably never regain the some will probably never regain the some anked because of the fise of the console sides and people willing to spend the sides and people willing to spend the music graphics, education, the internet and business and your only source of information is the television and the Sunday papers, the only machine you're standard to the some sides of the Sunday papers, the only machine you're hamped to the some sides of the some fine and the sunday of the some fine and the some sides of the some in a some sides of the some fine and the some sides of the some side

# RASHY NEW YEAR

I have a handy tip to do with the trashcan on the Workberch, When I got your Chittmes issue (%4). I looked at the AppTrashcan program you gave away, but you don't really need all these programs to replace Workberch trashcan because you can have one out on the Workberch screen without using any of them. It goes like this:

1. Create a normal drawer on the boot partition of your

hard drive and call it what you like, like WBTrashcan, for instance.

2. Make sure the icon is selected.

3. Select 'Leave out' from the Icon menu on Workbench. This will place the Icon directly onto the Workbench

4. Next, use an icon editing program like the excellent one you gave away in issue 94 and change the drawer's icon type from a drawer to a trashcan. (You could also just use Swazinfo to do the same, we gave it away the following month on issue 95 – ES)

5. Snapshot the iron to wherever you want it to be and hey hey hey, you now have a Taskan on Workbeach. One last thing before 1go to bed (if's 4:37am as I wink this). I live in north Wales and I am saddened to see that the towns around here no longer have anything to do with the Amiga – you can't get a single thing; no Amigas, no hardware, I can only find one shop that sells games no hardware.

(and they're all out of date), plus, if you ask the shop attendants anything about the Amiga they go all cocky and selfish.

I find all this very distressing, I have been a proud owner of a mings for ten years and while there is a lot I want to say, I feel I am only repeating what other people have said already. Anyway, it's a sad situation even though you guys at Amigo Computing are doing a great job — if it wesn't for your magazine I would have no way of knowing what was

happening in the world.

Michael J Owen, Caenarfon

Nice hit of lateral thinking there, Michael. We tried it out in the office, just to check you weren't pulling our legs, and io and behold it worked The only problem with your method that we could discern was if you have (as we do) more than one hand drive or partition. If that's the case, you will have to have a separate tradcar for each drive you have on Workedon, as only having one follows the Workbench rule of 'It it int' on the same drive coy it states that moving IL."

What this mass is that if you drag a file from one place on a hard drive to another place on the same hard drive, Workbench moves the file (i.e. copies the file to the new location and deletes the original). If, however, you drag a file to a different partition or hard drive, then Workbench just copies the file, I eaving the original copy where it is. The same principle applies to the trashcan. Other than that, nice one!

# FINALLY...

I just thought I would write in to say how much I like the new look of the magnete for 1996 and say that I thought that it was the best issue of any Amigin magainst where read for the two years I have owned an Amigia, Although I am now past the beginners stage (hope), the Beginners guide section was well-written and informative of the Amigia really set me thinking about the machine I would like to own in 12 to 18 months time.

The coverdisks you supplied this month were also very handy. Although there was stuff on them previously available on yours and other coverdisks, it was nice to have them all collected together and to get the latest versions of things like MultiCX, which is a bit hard to find if you don't own a modern.

Anyway, that's it. I just thought someone ought to thank you for the great work you guys do for the Amiga community and I'm feeling very mellow because it's Christmas and I've had a drink or two.

Owen Jones, Canterbury

4

Well, Owen, there's nothing we like more than a bit of unadulterated massaging so now we're all glowing with pride and

feeling mellow too.

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BELGIAN CD-ROMS

I decided to spend some money or my Amiga so bought myself a Power Quad-speed CD-ROM to use with my A1200, along with the GVP A1230 I already own. I would like to know if it is possible to use a CD32 joy pad on the A1200, as certain games do not support keyboard or a normal joystick?

As I live in Belgium, I am experiencing a lot of difficulties trying to find a shop that sells Amiga-related products - why is that, and will this change with Escom? Maybe other Belgium readers could contact me so that we could get in touch, or are there any Belgium Amiga-related clubs that I could get help from?

Recently I went to London and while there bought myself a copy of the CD32 version of Myth. When I got home I found the game did not work with my CD-ROM. Will it work if I buy the program CDBoot? Is it wise to buy this simulation software, or is it just another name for something that does exactly the same as the software that came with the CD-ROM drive?

Also, when are Lost Eden and Megarace coming out for the Amiga? They are already advertised as being on sale, but I have not received the copies that I have ordered? Blontrock Stijn, Oostende Belgium

It is possible to use CD32 joy pads on your A1200, and they will even function as a normal joystick when used with standard Amiga games. The only possible drawback is that some CD32 games may not recognise you have the joy pad because the CD32 has a little more



the A1200 which allows it to automati

cally detect that a joy pad is being used, rather than a nor-

mal joystick. However, I cannot see this being a problem as I would think most programmers should be aware of this.

I cannot tell you if there are any shops or user groups in Belgium, but there is a recently formed international user group called A.M.I.G.A. based in London that may be able to help you out. Contact: AMIGA. 190 Falloden Way, London NW11 6JE, Tel: +44 181 455 1626. If any Belgium readers want to get in contact with you we will be happy to forward their letters.

As for the Escom situation, they really only have enough resources to concentrate on getting distribution to the Amiga's main selling points, such as England, Germany and America. Even if Amigas do make it into Belgium Escom shops, I doubt they will be of much help to you. As they only stock the basic Amiga packs and little else in the way of Amiga peripherals, there would be very little of interest for you. Overall, the CD32 emulation software Helping you to sleep easier at night, ACAS will soothe all your troubles away

> you get with the Squirrel interface is about as good as it gets and, unfortunately, if this cannot get a CD32 game to run then you are going to need an actual CD32. The main reason for CD32 software not work ing is that it may be directly using the Akiko chip. However, I cannot see why Myth would need to do this. Another is due to the CD32 having Workbench 3.1, so certain graphic routines are not available on a standard A1200 and this will also stop the game from loading

Apparently, Megarace has been scrapped while Lost Eden is still due to come out, even though its release date keeps being pushed back.

# GAMES I was wondering if ACAS could shed some light

on a recent phenomena that seems to be occurring more and more. I'm talking about the ever increasing number of OS friendly games that seem to be hitting the market, particularly all these DOOM clones that multi-task along with other programs you have running. This never used to be the case, so why the sudden turn around? Martin Collier, Swindon

You are right. A few year ago it used to be the case that you were lucky if a game worked on an accelerated machine. If a game came out today that refused to work on an 020 processor it could not go on sale as every A1200 would be unable to run it. I remember when I first saw SubWar 2050 - I was quite amazed when I found it was running on an Intuition screen. You could pull the screen down and voilà, Workbench appears still up and running.

The same applied when we first saw Breathless. Hit the right Amiga and 'n' keys, and Workbench will pop to the front. This change of approach from the old has come about due to a couple of reasons. When the Amiga first came out it had a much slower processor and a quarter of the memory which necessitated that the programmer grab every byte of memory and every CPU cycle to get the very best out of



drive will be able to see it multi-tasking away

faster processors and much more memory, the need, and the excuses, for killing the system off are not applicable, and when a Power Amiga arrives these excuses will be non-existent.

The reason for not killing the OS off is that by actually talking to the OS a program can find out all sorts of useful information about what type of system it is running on. This means a game such as SubWar 2050 will actually run on a mode-promoted VGA screen - something that is impossible for a game that kills off the OS. Commodore always said that programs that do not

use the OS will not run on future machines. This happened when the A1200 first came out, and more recently with the floppy drive problem in the current A1200s - games using their own track loading routines could not cope with the new drives. It will also be interesting to see if such OS 'friendly' games will run on the future Power Amigas.

# INTERNET BEGINNINGS

I would like to know more about the Internet as in my country the local communication system has recently installed a server to the internet, but I cannot find any Amiga Internet

software on the market.

I would like to know what software is available and how I can get hold of it for an Amiga I 200 with 250Mb hard drive. Besides this I would like to know if modems used in PC machines are suitable for the Amiga or should I buy a special kind. If this is the case, where can J pet it?

Martin Balestra, Montevideo Uruguay

I am sure you will take great deleight in knowing that all the soffware you need in which is not going to be of much use to you now. It is cleaned, but the problem with this is that the only ready source for Comma soffware is need you called to the good of the things of the soffware you need to use all aspects of the interest fewely wailable, but the problem with this is that the only ready source for Comma soffware is Anniest. So to get Annipe Comma soffware is well with the comma soffware is well with the comma soffware is the problem with the software in the comma soffware is the problem. The comma soffware is the software in the comma soffware is the comma soffware in t

On our April issue we did a special Comms coverdisk which supplied you with all the necessary Internet software to get you linked up and accessing e-mail, newsgroups and FTP sites. There was also the chance for British readers to have ten hours trial Internet access with Demon. There are still April issues available so you could get onto the Internet this way.

As the whole package is based around AnnigaNOS, an older TOP/Ps offbare package, age, the Installation is very simple as the installation is very simple as the included packages, but you will still need to know your IP address, your e-mail and address, and the sub net mask. Do not address, and the sub net mask. Do not asstart worrying too much, as your internet expression of the provider will tell you what you need to troe in.

The only downside is that AmigaNOS is not supported by any recently written internet programs, with just about every program supporting AmitCP. So in the long run, getting hold of and switching to AmitCP would be the best move. Unfortunately, AmitCP is very very difficult to set up, even for someone that knows usite a lot about the Amiga already.

This is because for every program that you want to work with AMICP, you have to configure AMICP separately for each one, and this can get to be very confusing. If AMICP can with all the necessary internet tools to allow you to Web browns, cmail, use newsgroups and FFP, things would be far more straightforward. All you would have to know is your IP number own and comail address which would be provided for you by your internet server.

Amiga Technologies have announced that they will be producing an Internet package, based around their AS225/2 TCP icus

Do you have a problem! Do you sometimes find yourself poised over your Amiga with axe in hand, spouning perfoality at the stableon reluced of your software well, call adonn and stoop the well, calls adonn and stoop the one for pen and paper, jot down your problems, along with a description of your Amiga setup, and send it of 16 Amiga and send it of 16 Amiga Park, affected \$K10 4MT. Alternatively, e-mail us at AASS(Secomphomn.ca.W.

stack, and with all the necessary tools you need. The full details have not been confirmed yet, but it will initially be bundled with the A1200, and will probably be available separately. So for any would be Internet-ers this is the perfect solution.

As for PC modems, you can use any external modem with your Amiga. You cannot use the ones that are internal to PCs as the interface for these are not compatible with the Amiga. Also, you cannot use PCMCIA modems as no Amiga device drivers have been written to take advantage of them.

# Jargon

AmiTCP – currently the most widely used TCP/IP sock for the Amigo. Was originally fixely available up to version 3, fixer version 4 it is only available as a commercial

TOP/IP - the software that allows you to connect to the internet and other networks

AS25/2 - the TOYP stock written by Commodore, apparently better than AnnTOP Unfortunately it never received a public release, only being available to developers. It will make an appearance with the soon-to-appear Amigo Tech Internet package

PCMCIA – that thin slot on the side of an A1200 and A600, know to be known as a PC slot, as everyone got really sided of having to say PCMCIA slot of the time DR – Dats Per Inch, a way of measuring the quality of a

has about 75 DPL a half decent printer is at least 500 DPL and magazines are around 1200 DPL Mb – Stands for a megabyte or a million bytes. A standard A1200 has a 2Mb memory so has 2 million bytes.

Cb – a Gigabyte or a 1000 million bytes

Bries – one byte is made up of 8-bits, a bit is either 1 or

Bytes — one byte is made up of 8-bits, a bit is either Q. A single byte can hold any value from 0 to 255 Made promotion — when the AGA chip set come out

Amiga awners suddenly had access to high resolution VCA mainter modes, Unfortunately no programs supported these, so mode promotion was invented to force dieses programs to use the best VGA monitor mode over able, which you select it from your iControl preferences.

# FINAL ZOOM

Having owned Final Wider for a while now I have got to grips with its graphic tools and am using them more to produce diagrams for my college seasys. The problem I have is when trying to precisely position lines so that they fit together. At the moment, I have resorted to entering the co-ordinates directly into the line requestee, but a syou can imagine this is quite time consuming when dealing with any more than just a few lines. Have you got amy

suggestions? Simon Jones, Manchester

Simon Jones, Manches

Having used Final Writer to produce essays and reports myself, I know how frustrating and time consuming it can be trying to set up diagrams by hand. Luckily, there are a few tricks that you can use to help you get along.

space can be a swap you got among.

The strings are the space of the s

What is RISC?

This seems a suitable place to start, and the shows what a peculiar situation RISC is in. The furue RISC processor. The term RISC stands for R and came about because of the comparison with paired the the CISC machines of the day.

Wha

Changing the screen DPI from 40 to 310 zooms you in almost eight times as much, but your screen refresh will suffer

hen Amos came out for the Amiga back in 1990 it redefined the way people looked at Basics. Until then they were normally considered simply as learning tools, with no real world application because finished programs would run too slowly to be of use, and the notion of writing a graphic intense game would have beridiculed. Amos proved this to be wrong, providing a command set that could perform amazing graphical feats on a stock A500.

Blitz is the same style of high performance Basic. A simple command set hides very powerful functions with which you can unleash the graphical power of your Amiga, while not having to go through several years of learning how

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Amiga

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The Blitz programming language works around a sensible system of objects. An object can refer to almost any part of the Amiga's system, being screens, files, Fonts, Sounds or Gadgets. All objects can be created and removed in the same way, with the Blitz language handling all the memory allocation and other structures associated with each type of object.

### COMMAND CONTROL

This object system makes understanding how commands work a lot simpler and is very straightforward. If you create a new screen object, any graphical functions you now perform will all act upon this screen object. If you then want to use a different screen you just select the screen object you want.

To make your life even simpler, Blitz has direct support for the Amiga standard IFF files. This means you can load IFF pictures, samples. animations and anim brushes directly into your programs. These can then be used with any relevant Blitz objects, such as screen and window backdrops, game sprites and even as menu and

gadget images. The major addition for Blitz 2.1 is full AGA support. This comes in the form of a new display library to replace the old screen slice system. The new system takes the form of each screen being given a copper list. The Copper is the custom chip that controls how the screen display will look. The basic form of the commands simply allows you to set the resolution and how many colours a screen should have. but more advanced programmers can access the more complex copper functions.

These new AGA functions will allow you to use the higher screen resolutions - up to 1280x512 pixels - and the greater screen Jargon

Debugger - on essential Amos - Bitz basic direc

Custom Chips - gove BASIC - Beginners All

deoths - 256 colours or 262,000 in Ham mode - that AGA allows. Along with this are the 64 pixel wide sprites that can also be high res.

Another feature of the AGA chioset is its ability to fetch graphic's data in larger amounts. This allows 32 or 64-bits of screen data to be fetched in the same amount of time it took the old chip set to fetch 16-bits. These higher fetch speeds mean it takes less time to display a screen, so on chipRAM-only systems, the processor has

more time available to it. The only drawback with the new fetch modes is that due to how the Amiga's DMA works. using high fetch modes and screen deoths will restrict the number of sprites you can have on screen. The only way around this is to work on a screen with reduced width - this gives the Amiga more DMA time to sort the sprites out. Neil Mohr finds out what makes Blitz a superior Basic

commana

Blitz is the improved text editor, TED, and its on-line help. The editor is now available in a Workbench 2 version that looks and works a lot better than the old Using the new on-line help, if you want to

find out more about any command, just press the right Amiga and help keys and a window will pop up with a short description of the command's syntax and what it does. I suppose the main question is whether you

should buy Blitz or Amos? I would not hesitate in recommending Blitz Basic over Amos with its system-friendly editor and debugger, full AGA support, and a more straight forward command set. There is direct support for intuition programming, including specific Blitz commands for creating gadgets and menus, so Workbench 2 users can use the Gadtools commands for better looking programs. Also, the ability to have in-line Assembler is a great feature, which not only makes Blitz perfect for learning

# Assembler, but anyone creating a game will be able to optimise parts of their Blitz code with it. **Bottom**







# PRODUCT DETAILS

Product	Blitz Basic 2.1
Supplier	Guildhall Leisure
Price	£34.99
Tel	01302 890000
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Eas

# E-BUGGER

The new version goes for the full ManAm treatment and allows you to view every aspect of your Blitz program. Along with the usual debugger functions, such as skip. step, run and viewing, the processor registers and status registers. You can add stop commands in your program which will automatically invoke the debugger, allowing you to view the program status, change registers, custom chip requesters and program variable and arrays. All the various Blitz objects that your program may

have created can also be examined, making it a simple task to find out what all your screen bitmaps, sprites and palettes are up to.



∩ The new debugger is bristling with useful functions, and rws you to peek at every aspect of your blitz program

Enforcer - a debugging

MMU - Memory

hile checking the recent uploads on Aminet the other day. I noticed an intriguing little 12k archive called RSIbreak lha which I felt deserved a mention because it's become a permanent fixture on my hard drive already. RSI Break, by a chap called James. Allen, is a small commodity that is designed to remind the user to take regular breaks when typing, so as to avoid possible RSI problems. Repetitive Strain Injury is, of course, now a recognised condition which causes consid-

erable pain to sufferers. It can affect anyone who performs repetitive movements regularly, such as piano or guitar players, and, of course, computer RSI Break flashes the screen every three or four minutes to remind you to shake your hands, and every half an hour or so an alert appears telling you to get up and walk around a little. The frequency of these reminders is

totally configurable via the icon tooltypes. RSI Break is an excellent idea, and is highly recommended. Now let's take a look at the best of the rest from this month's PD and shareware



Dave Cusick's back with another bumper-sized bag of budget stuff

# MIPEOUT 1.3

Programmed by: Tero Lehto Available from: Your Choice Disk No: GA600

Wipeout is an unassuming blast-'em-up, written in assembly language for the maximum possible speed. Your task is to control a small spaceship which flies around



Surrey: "Til go for Sean Connery, please Paul." zer thing: "Be-doodoo." Audience: "Ahh...." It'l trying to destroy every other moving thing. Each level has its own graphical style, and the visuals throughout are impressive, with parallax scrolling and well defined sprites. The sound effects are more than adequate

Gameplay is fairly tough, mainly because getting used to the incredibly sensitive controls takes some time. Fractional joystick movements can result in massive changes of direction for your little ship, so a steady hand and a fair bit of patience is required to be successful.

Because the portion of a level visible at any one time is relatively small, using the scanner to pinpoint enemy ships is a necessity. On the early levels you can afford to toddle around picking off the enemy one by one, but on higher levels the baddies don't react kindly to your



presence and will actively seek you out and fire at you. Whilst it's scarcely going to win any awards for originality, Wipeout is nevertheless a pretty playable game, and is an excellent way to relieve frustration once you've cracked the control method

# KIDS ONLY

Programmed by: Mark Meaney Available from: Seasoft

Kids Only is a collection of seven linked programs aimed squarely at youngsters. It was originally intended for commercial release but the three disks are now available for a tenner. Big kid that I am, I had great fun playing with the

on-screen musical keyboard in the Music Maker



Kids, eh? One of Lennon's nippers apparently frew a picture and called it 'Lucy in The Sky With Diamonds', inspiring John to write the ng. Do we believe him boys and girls?



O Can you see what it is yet! It's Getting Better all the time

program. Six different instruments are available and there are some accompaniments too, and whilst it's not guite on a par with the Fun School build-a-band thingy for sheer entertainment value, it's nevertheless extremely good.

Dot 2 Dot is also well implemented, with a selection of pictures for completion which can then be coloured in. Unfortunately, some of the numbers next to the dots can run into one another on the more complex pattems, but since the program won't let you draw a line that's out of place, this isn't a big problem

There's a computerised version of I-Spv, which uses

# BEING FOR THE BENEFIT OF MR KITE!

Steve Bye, the nice chap at F1 Licenceware who created the Absolute Beginner's Guide to Workbench (of which volume 3 is now available) has just written a little booklet called First Steps With The Amiga A1200. It contains sections on carng for floppy disks, loading software, for and copying disks, deleting and recoveri reating bootable disks and detecting and with viruses. The 20-page booklet is avail anyone who wants one; just send an A5 SAE

colourful pictures absolutely jam-packed with objects and beasties of all kinds. The object is to guess a certain number of them in as little time as possible

There is one of those fiendishly difficult picture slide puzzles too, as well as a colouring pad, a word search. and a pairs game.

Virtually all the programs have multiple difficulty levels, and the visual appeal of the entire production is immense. It is practically guaranteed to hold the attention of even the most restless of kiddies for some time.

It kept me busy anyway.

Programmed by: Craig Taylor Available from: The Development Foundation

ARENA



their hands when they came up with cult scifi classic Tron, but they were unwittingly inspiring hordes of programmers when they dreamt up the infamous light cycles game. If you experienced a strange sense of déjà

vu reading that paragraph, then you've either got an incredibly good memory or you've recently been looking through your back issues of Amiga Computing. That's the exact same sentence that began my review of Wired Chaos back in AC79. So why would anyone bother writing yet another light cycles game? Well, as it says on the accomparrying letter, they do tend to be 'cheap and cheerful, addictive, and relatively quick

Arena is not PD or shareware, but a commercial release. It's the first game from The

out is

once

with

is to e slide earch. ty levattentime. Development Foundation, who have other products in the pipeline which they promise are "graphically and sonically far superior to Arena, have far more complex gameplay, and rely quite heavily on LightWave rendered graphics." But Arena is pretty good. Excellent presentation, a good range of

options and a screen editor are what sets it apart from the pack. The gameplay itself is, well, light cycles really, but in addition to the 'classic' game there is an updated 'arcade' version with colourful backdrops, optional strobe effects, walls and so on Up to four cyclists can participate,

although three of these can be controlled by the computer if you don't happen to have any like-minded chums handy. It's all good clean fun, and it's a quarter of the price of most commercial games.

Incidentally. The Development Foundation say they are on the look out for graphic artists, game designers and programmers, so if you think you're what they are looking for\_



# MIDICRAFT MAGAZINES

Produced by: The Craft Brothers A readable music magazine which, as Available from: Seasoft the title suggests is aimed at MIDI users. Articles cover subjects such as

the benefits of MIDI, equalizers, ten top tips from the Craft Brothers, and for some reason, a discography for Nick Cave And The Bad Seeds. Readers' letters are also included, containing

opinions and questions for the writers. There is a review of the public domain Eagleplayer 1.54, and an Octamed module and a Protracker module are thrown in too. There are also some General MIDI format tunes on the disk; five in stan-

dard MIDI format (two original compositions, plus Scarlet's 'Independent Love Song', Tina Turner's 'River Deep Mountain High' and M People's 'Sight For Sore Eyes') and two in OctaMed6 MIDI format (Take That's 'Back For Good' and Janet Jackson's 'Whoops Now'). The standard of these is excellent. Some MIDI utilities are also thrown in for good measure, such as General MIDI emulators for the Roland D-5, D10 and D110 synths and a Music-X to MIDI 2.1 format file converter.

Whilst there are not a vast amount of things to read, the producers are boldly attempting to produce an issue each month so it's unreasonable to expect too much. The range of tunes and utilities help to ensure that this is a worthwhile addition to any musician's disk box

At the same time as each issue is produced, the makers release a separate samples disk. MIDIcraft Samples #8 contains a decent selection of high quality instrument samples for use in tracker programs and samplers, and is recommended for Amiga musicians after some new sounds.

ORY BOX

we Cusick lare Lusa umiga Computing. Media House, Adlington Park Macclesfield SKTO 4NP

EENY WEENYS

Programmed by: Malcolm Lavery Available from: Malcolm Lavery

Top platform-puzzling frolics, vaguely reminiscent of a certain classic game starring small suicidal rodents Your task is to guide the cute little Teeny Weeny things across some treacherous screens using a variety of objects scattered around. One wrong move can result in one of our heroes meeting their maker in some unpleasant way. Swift thinking is required too, because you are up against a strict time limit. The graphics are lovely and colourful, and the love-

able littl'uns move smoothly around the strange landscapes. To accompany the action you can select one of 15 little ditties, of which the cheesy 'New York, New York' tune is my personal favourite. If the music starts to get imitating after a while, you can choose to have the excellent sound effects instead. As with Lemmings, there's a password system so you won't have to replay the earlier levels once you've completed them

graphics and, erm, different gameplay It's all very well having a blast on something like



Wipeout, but at the end of the day the most entertaining games in the long term tend to be those that tax the brain in some way, and offer a little variety in the action. Teeny Weenys certainly meets these criteria. So just to recap: top tunes, silly sound effects, excellent graphics,

addictive gameplay. It's hard drive installable too. What more could you want? Well, an AGA Amiga, because it only works on those. But if your machine is up to it, this game has got the lot - and for six guid it's a bargain.



# ENLOCK 2.1

Programmed by: Mike Carter Available from: Roberta Smith DTP Disk No: UT362

If you suspect unwanted eyes are taking a peek at some of the more sensitive files on your hard drive, what can be done? Well, you could lock your Arniga away when not in use, but that would be a little drastic. A password protection program would be a better bet.

And what if you reckon one of the offspring is using the computer after their bedtime? Periodically checking they're not at the computer would become a bit tedious. Better to have a program which only lets them use the machine at certain times of day.

Enlock can do all this and more. After installation using the supplied scirpt, the program can be configured to sult your particular needs without much hassle at all. An unlimited number of users can be created, each with their own user name and password. Each user can have their own section of a hard drive which only they can access, where they can keep whatever they choose, and because this directory is always assigned as USER: regardless of who is currently using the machine, word processors and southles can be set.

Methods Johnson Steman Steman

Protect your hard drive from inquisitive kiddles like Andy Maddock with Enlock

to save files into USER: and files will automatically be placed in the individual user's private section. On booting up the machine, every user can have

their own startup-sequences, which can include sampled speech and sound effects to add an extra sparkle. Enlock can also check memory vectors, acting as a very basic virus checker. And as well as restricting each

of the month

user's access to specified times, Enlock keeps track of every attempt to log on, whether successful or not. On the down side, the time restricted accessing fea-

ture doesn't like it if the 'stop' time is after midnight and the 'star' time is before – you couldn't, for instance, specify a time band from 23x00 to 01:00. The author points this current limitation out in the accompanying AmigaCoulde file, but it's not a major irritation, and it will probably be fixed soon anyway.

This is by far the best hard drive protection program I've come across, boasting plenty of features and appearing very reliable and stable. Definitely a worthwhile investment for security conscious family members.

# CHESS 3.3

Programmed by: Stefan Salewski Available from: Your Choice Disk No: GA601

When I was at shoot I always used to get movimated by a classates or from two to earthe award Services Chee Continues and the should be a served to transmer i - not because I was any copi, but because if the two should be a served to the served to the first two should be a served to the served to the served to the served to the served will do b, be did it all year. Where he may be the served to did in the was all served to did it all year in the served to did in the was all served to the served to the served to did in the served to the served to the served to the total or the served to the stand. If so if that when everyone did to the served to the two served to the served to the served to the served to the two served to the served to the served to the served to the two served to the serve whilst said sad individuals pondered their next move.

Of course, playing against a computer doesn't present the same comedy opportunities as the real game. You can't delib-

eately lose to the four move checkmate if it's a sunny friday and the football is tied at 2-2 for the week, and you can large hysterically when you accidentally best a bloke four years older than you who devotes his whole life to the game. But it does have some advantager; you can limit the computer to ten seconds thinking time per move, for instance.

UChess is about as good a shareware chess game as the seen. It doesn't go for flashy premotation (in fact, if she homitic to look at) but it plays a fine game (or a cusp one, fall) you so chroned. It also has lost of ince features, like a resizuable board which can be rotated in 90 degree stages. Cames can be loaded and seved at any point, and the computer can be set the challenge of reaching Checkmate within a couple of moves.

This version of VChess is not restricted in any way whatsoever. If you use it, however, don't take advantage of the author's generosity – send him the 20DM registration fee, because it's clear that a lot of work has gone into this offering.

# R EVISION M

Programmed by: Richard Thompson Available from: Richard Thompson

This sort of thing has been done before, but it's either been done bedly or done spensively. It's nice to see that Revision Master is neither bad nor expensive, costing a mere fiver for a full registered version – rather more affordable for suddents than the astronomical registration fee for Student Aid 2 (reviewed in issue SU). There's seven a seve disable domonstration version available from the author for EL NO.

The main purpose of the program is to allow the student to create question and answer quizzes, and then use them to test his or her knowledge and gauge their progress from the results.

The simple interface makes designing a

The simple interface makes designing a quiz a straightforward task, although it will





Chess: if a pawn goes all the way it becomes a Queen allegedly

# DELUXE PACMAN AGA

Programmed by: Edgar M Vigdal Available from: Your Choice Disk No: 603

It's interesting that a lot of the most playable PD and shareware games are updated versions of classics. Featuring tasty AGA graphics and smaller mazes than the original, this version of Pacman has lost none of the playability. Under this new lick of paint, it's the same old Pacman, as enjoyable as

New gameplay features include extra bonuses for Pacman to pick up, such as guns with which to shoot the ghosts, glue with which to slow them down, shields, and overdrive pills. These only last until the current screen is cleared, however, and rather than making the game easier they simply add a bit of variety to the proceedings. If you're really pathetic, the best bet is to alter the difficulty level, as one of the three levels

is bound to suit. The mazes also change subtly as you



A Day In The Life of Pacman:

progress, and before starting a new screen it's wise to have a quick check, because otherwise you can find yourself fleeing down a comidor that doesn't actually lead to where you thought it did...

There are some decent sound effects to accompany the action, and if these prove irritating, hitting E will start a tune - at least that's the idea, although my copy didn't want



O \_munch munch munch, Hurrah!

to oblige. Still, to my mind, the old munching sound is a vital part of Pacman anyway This extremely addictive and superbly pre sented game is shareware, and Mr Vigdal

most certainly deserves the ten US dollars registration fee.

# A LITTLE HELP FROM



Your Choice<sup>1</sup> Road, Chorlton, Ma

M21 0ZJ

(Disks 99p each

# MISTER

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Plants make their oun food from sunlight. What is photosynthesis

obviously be a time consuming process. Still, the very act of creating a quiz based around course notes will probably help to

jog the memory. Revision Master also offers another extremely helpful function. The first is the Vocabulary section, ideal for those studying a foreign language, or perhaps science students with plenty of technical terms to learn. This can be presented in the form of a quiz, or more entertainingly as anagrams, or a word search, or as a memory testing game.

The mildly humorous sound effects and attractive presentation make Revision Master more interesting than most of its predecessors too. If exams are just around the corner, this could be an excellent



C The same question might come up several times in any one game, but Revision Master still C Even Andy Maddock

had to consult the nior Illustrated Book

of Science first

got this one right (but he



# Workbench Add-On Volume 1



**CD-Write** 



FreshFish 10



CDBoot 1.0



Aminet Set 1



**Aminet Set 2** 



Gamers' Delight II



Meeting Pearls Vol. III



Aminet 9

Aminet 10



**E-Paint** XiPaint V3.2



The Light Work



**NetNews Offline V** 



All products are available in your local Amiga-s or through national mail-order-companies International Distribu





Jason Compton reports on the new enthusiasm shown at the World of Amiga show in Toronto

t was a bad sign when WOA New York 1994 was cancelled, but not overly surprising as it was to take. place in April, the month of Commodore's collapse. As it never had pened. North America had to wait two whole years for a follow up to WOAs in Pasadena and Toronto, and thanks to the efforts of dozens, if not hundreds, of people, WOA Toronto December '95 ended the long

By the end of July's Calgary AmiJAM show, Wonder Computers' CEO, Mark Habinski, was convinced that a full-blown, big-budget Amiga show would be a good thing for the North American Amiga market. Something that would gun for attendance in the

thousands, if not tens of thousands, with a large hall and big-name appeal to the masses. Something worthy to be stamped a 'World of Amiga'. So the right people (Wonder's InfoTech division) were put on the job, North American distributors SMG were brought onboard to show off the new Amigas, and even

Petro Tyschtschenko top exec at Amiga Technologies, was convinced to come for a day and a half of

and to launch the show with a keynote. The speech was virtually the same cor

tent delivered at November's Computer '95 show in Cologne, with references to the new Amiga slogan, 'Back For the Future', the pcoming but still slightly nebulous Amiga 1200+, and the move to PowerPC, It lasted some 40 minutes, but that left over 21 hours of show time to fill. People managed to fill the time gaps by checking out various demonstrations ranging from 3D animation to emulation, and by wandering through the two aisles of the show floor, with Amiga merchandise and exhibitors all around them not to mention the hordes of fellow Amiga fans. Official counts were not available but the show seems to have attracted over 3,000 Amiga users out to Toronto, a number that eclipses the draw of both the Calgary and Montreal shows of the

# DEALERS

This isn't the Consumer Electronics Show, where industry pundits gather to "oooh" and "ahhh" over new products and make meeting-room orders for 50,000 units for delivery in six months. Amiga users get whipped up into a frenzy around all of this great stuff and want a chance to walk out with some. Since Wander organised the event, they, of course, took up a good deal of space in the centre of the show floor with a retail zone that also housed the giant-screen TV announcing the upcoming events of the day and the major exhibitors at the show.

Other dealers didn't quite feel the need to bring a huge TV, but dre customers all the same. Companies from the US and Canada such as Zippenware, National Amiga, and Valleysoft, showed off their wares, and even user groups got in on the action, such as the Toronto Pet User Group. The tables were rarely quiet and the proprietors rarely lost their smiles - two definite plusses if you're looking for signs of retail success.

O Bruce Smith, Amiga publish V booth, showing off Smith's new Amiga creations.

eg 73

# NEW HARDWARE

It would be a shame to overlook the Amiga Technologies 40001, 1200, and 14385. While none are 'new' products in the strictest sense, they're new enough, and were the items everyone wanted to see as soon as they got in the building, Wisely, SMO left an A4000T open to show people the guts, and to prove that they were truly real.

It was certainly a crowded house for non-linear editing solutions for the Amiga, with four packages represented — NewTeVs Toaster/Ryer combination, the Broadcaster Elite system, and MacroSystem's VLab Motion for the Amiga and Draco non-linear editing computer.

The Toaster/Fiper setup largely consisted of rolling videotapes showing actual professional animations and special effects done with the combination, but machines were set up to show off the work as well. The polich of a large, proud Video Toaster sign anchored the area and grabbed people's attention. Say what you will, NewTek has serious name recognition in these parts.

Considerably less name recognition belongs to GineReal Pro-Video Productions, Canadian distributors for the Broadcaster Elite non-linear package. Unlike NewTek's system, Broadcaster Elite is NTSC and PAL

C The guts of the new Amiga Technologies Amiga 4000T exposed where time is money and you'd rather someone take care

compatible. The manufacturers have also taken it upon themselves to produce a custom 16-bit sound editing card for specific use with the card in the wake of Sunitar's demise. Cinefleal's approach to building systems was interesting. They quale literally want to install a complete system, including workstation desk. A different sort of concept but one very viable in professional markets the concept but one very viable in professional markets.

of the details for you.

The final entries in the non-linear sweepstakes came from German company MacroSystem, represented by their North American distributors Noahli's and their Canadian representative RSVP. Their breakthrough non-linear card, the VLab Motion, was being shown, but

# NEW SOFTWARE

Oregon Research was an hand with their new distribution products, including Hisofit's Dist Yook for the 2D Drive and one of the show-stoppers, Cinemed D. The company has quite wisely opted to publish their own version in the States, allowing them to fill their increasing arder backlog more efficiently. Old favourities including Terminus and On the Ball were also on display.

Lazarus Engineering unveilled their first totally revamped product from Wonder Computer's buyout of New Harizons' software. DesignWorks 2.0, redesigned from 1.0 and Lazarus' 1.1, was shown on a souped-up A4000. DW 2.0 is intended to be a low-cost solution to common structured drowing and design tosks.

Intangible Assets Manufacturing, in addition to pushing the very popular Deathbed Vigil documentary, also brought a couple of new goodies to the table in the form of the AFS file system from ELO of the UK, and MegaBall 4. For years, MegaBall was sold by the Mackey brothers (Ed and AI) as sharewore, but Dale Larson, MM's el "Now sporting more bricks than you can shake a stick at, MegaBall is an Amiga success story in a shocking red box"

Presidente, was always very fond of the game. After registering the softwarer years ago and, more recently, employing Al for a summer internship, he decided to go the whole hog and publish the work. Now sporting more bricks than you can shake a stick at, MegaBall is an Amiga success starv in a shockina red box.

Their white T-shirts are unassuming (they do look good in suits though), but the team of John Bosile and Chris Aldi at Phantom Development are one of the most exciling – and eclectic – software designers and publishers in North America, and perhaps the world at this point. While their initial efferings have not been charibusting, they have been promising, they have been promising.

NNOVATION

Digital Quill is one of the few actively supported commercial text editors on the market, and Classket is an innovative gadget toolkit for developers unhappy with present Cult-building options. The Classket package realises a number of Classket penhancements for programmers that were promised in Commoder's CATS representation of the future (and never completed) AmigaOS 4.0. Hell Pigs, a Croatian-developed graphical adventure game, is still slated for publication through Phantom,

but has not yet been completed.

Robakeet! CD32 educational software
was there that may just catch an —it's easy
to use and catchy. You control Robakeet,
who needs to spell words correctly in order
to have enough energy to survive in
arcade action sequences against cots and
their henchmen. Neat stuff.

and retributes. New Sufficient Su

imposing before. One of the biggest attractions didn't sell a single copy because it's not done yet. Capital Punishment (see preview in this month's System) a new beat-'em-up from clickBOOM software, was in its third beta for the show. Despite only pitting identical warriors against each other, it still brought in a constant flow of players (on the several demo A1200s set up for duels) and viewers. Alex Petrovic and his assistant. Sofia, kept order and promoted their software, which looks very impressive on a stock A1200, with AGA graphics, shading effects and, of course, lots of violence and blood. Ironically, the game was written in PAL, which is hard to argue with given the large market outside North America. Even without NTSC support, which would certainly be welcome, the game looks very promising and could certainly do a great deal towards reviving confidence in a

North American game market for both

developers and players.

U Hal and Steve man the Intangible Assets Manufacturing booth, having made up their own mind



mainly in its capacity as a companion to their Draco 060based Amiga-compatible non-linear editing computer. Aside from being a computer with a lot of hyphenated terms, the Draco is nothing if not very fast and very good at what it's intended to do - quickly, and cheaply, and digitally, edit video.

For pure amazement value, visitors didn't have to look beyond the Microscribe booth. Microscribe is a clever desk-mounted pen on a rotating arm that is used to digitise 3D objects in LightWave. It doesn't come cheap, but for the LightWave professional with a difficult task ahead of them, say, "Create 3 different types of nozzles by tomorrow for a presentation", the device looks to be a lifesaver.

### LINE-UP

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DKB showed up with a jeweller's case full of their product line, from A1200 accelerators to the new Wildfire 060 card for the A2000, a new SCSI hardcard, and a serial/parallel addition card called the Link-UP. Their 060 line is expected to be extended to the A3000, A4000, and

most likely the A1200 as well. When all was said and done, even seeing the Amiga



Draco 060-based Amiga compatible non-linea editing computer. It's a long name, but a very

Tech 4000T was less significant than what PhaseS's MD, Wolf Dietrich, brought to the party - an engineering prototype of the PowerUP card for the A4000. After all, the 4000T is at best the present and at worst the past. But the PowerPC mounted on that card is the future of the Amiga, which is why poor Mr Dietrich was absolutely

### MENTIONS MISCELLANEOUS AND HONOURABLE PCs, a new game (not ready for release) from The Toronto Pet User Group caught my eye

with a Commodore 65 on display. They're an still exceptionally rare breed, a late-'80s/early tom, '90's project to put a new 8-bit machine in ware the gap left open by the 64. easy

WCi Distribution had a large area set up which they parcelled out to the aforementioned NoahJi's and Phantom Development. What was left over they used to showcase their entire product line available for

Canadian and North American dealer sales.

thing newer available than they did at the Montreal show in August, still plugging away at their MultiFace IV serial/parallel card. The same goes for AmiTrix. who brought Amiga Link to the party. Still, it was nice to see familiar Bruce Smith Books were represented by JCV

and Bruce Smith himself, which I imagine took several users by surprise. Very few Amiga books are published and sold in the US. Legendary Design Technologies brought a number of retail items and showcased their

O Trevor Kidd and own line of in-house projects, including the Link-It! parallel cable between Amigas and



new boxes for Amiga OS 3.1 and AmiTCP 4. which they now publish. But they were very enthusiastic about the upcoming Picasso IV Eric Schwartz, infamous Amiga animator

swamped from open to close each day, even though the

card was a non-functioning unit in a glass case. Having an

wasn't displaying anything except his new Tshirt design. A mean A4000 setup leers over a hill with the slogan 'Amiga: We're Back, And We're Pissed.' A must-wear for any true Amiga fan.

# T THE END OF THE DAY

It's been a long, hard road for North America, the market that never quite seems to give the Amiga a break. But the message from WOA Toronto was that even on long, hard roads, there are bright spots, and turning points. Developers and retailers world wide got together to make the Toronto show the largest all-Amiga event in years, a resounding success. WOA Vancouver June '96 is on its way.

# CONTACT POINT

0689. You can contact him at compton@xnet.com; AR on Aminet -Mail me; AR on WWW - http:// www.omnipresence.com/Amiga/News/AF



the WOI Distribution time doing it.



C The Village Tronic area with their entire product line and clever German

AMIGA COMPUTING

Even cervery great both

# ordworth

Neil Mohr takes a Final Writer's user view of the forthcoming Wordworth 5

to see how it stands up

think Darwin had something going with this evolution business. Survival of the fittest, only the strong survive, if something cannot adapt then it just curls up into a tiny ball and dies. The same seems to be happening in the constant war that is the Amiga word processing market, but in this case programs have to be constantly updated otherwise they fall behind and another program will be more than glad to jump in and take

the top spot It should be obvious that I am talking about the pitched battle between Wordworth and Final Writer which has been raging for the last few years. At the start Final Writer seemed to be ahead of Wordworth - it had AGA support first, was faster and had an ARexx port. That was until version 4 of Wordworth came along, having Digita's text effects and the ability to produce tables. something Final Writer users are still waiting for, and with all of its speed problems addressed, round two went to Wordworth. Of course, version four of Final Writer was recently released with a completely

# box

fonts - the old font use other sizes results in a

ve Tipe - the standard out

revamped interface and grammar checker but overall it may have been that the last Final Writer was more aesthetic than

practical. All of a sudden Wordworth 5 can be seen thundering over the horizon with the cavalry, packing a good selection of new features, all ready to bolster its already fairly good defences and redress any advantage Final Writer 4 may have gained.

NTERFACE

Unlike the last Final Writer update, current Wordworth users will not be seeing any major changes on the interface side of things. apart from the addition of a few new buttons which allow access to some of the new features added to this forthcoming release. The first of these are found along the ribbon bar at the top of every Wordworth window.

"I think SoftWood are their proverbial finaer done themselves

These new buttons add some handy formatting commands that can make your documents look a good deal better The first three - bullet, indent left and indent right - have been in Final Writer for a

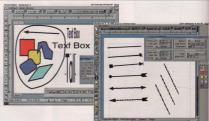
# EATURE COMPARISON

Seeing the main competition for Wordworth 5, when it is released, will be Final Writer 4, it may be a good idea to see how each of these programs main features stand up when compared together.

When it comes to simple drawing tools, both Wordworth and Final Writer have their own advantages. The main advantage that Wordworth has is its much superior line drawing. For all of Wordworth's shapes, the requester that controls how they look is modeless. This means it works separately from the main program, and when you adjust a setting this is immediately reflected in your document, allowing you see how the change looks. In Final Writer you have to get rid of the requester before you can see what your changes have done.

Final Writer only has three different types of lines - plain, arrowed or curved - and this pales in comparison to the options available to Wordworth users. From the line information requester you can add various shapes to the beginning and ends of lines as well as apply dash effects and the text flow.

With either program you can create a basic number of re-sizeable shapes, and for



any of the shapes you can choose the fill and outline colours, or leave them as transparent. Final Writer really wins here because a number of new shapes were added for version four which allowed you to independently adjust the position of any of the

shape's handles, giving you much greater flexibility. Also, a blaring omission from Wordworth for me is any sort of graphic rotate setting - Final Writer has had this since it came out so there is no real evruse

The an-line help facility is something Final Writer users are still waiting for good while now, and are very useful when

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text and select the corresponding body text

you want to highlight a number of points in a document by allowing you to make them stand out from the rest of the document. A fast format tool is now available that allows paragraph information to be pasted from one to another. This goes along with the major addition of style sheets, and for any Final Writer user these will be a fairly well know function. The ability to have predefined styles is an extremely helpful one because it allows you to very quickly format a document or essay to your normal styles.

# MPORTING

For example, if you import some plain text with all the various paragraphs, headings and titles as standard text. Wordworth makes it an easy task to format the document. Using your previously defined set of Style sheets. you can just highlight the heading and then select the heading style which is then applied to your heading text. If you now select the first paragraph of the main body style, the paragraph will be formatted using the correct font, tab settings and text justification.

Wordworth goes even further than Final Writer in that styles can be copied from paragraph to paragraph. You can even apply styles using user-definable hot keys, of which

20 are available.

As a Final Writer user there are some very welcome GUI features in the Wordworth interface that I would like to see in Final Writer, and these are all connected with manipulating graphics. One annoving problem in Final Writer is that text and graphics have to be manipulated with completely separate 'pointers'. Therefore, when switching from editing text to graphics you have to select the correct edit mode from the tools strip or menu item. When you are constantly doing this it becomes a little tiresome. particularly when compared to the Wordworth system, where you never have to bother with what you are editing. Wordworth

# Jargon box

S - allow you to

automatically detects whether the pointer is over a graphic or text and will switch to the correct adit mode

An offshoot of this is that depending on what part of a graphic object you are selecting, different actions are available. Place the pointer over a resize handle and the pointer changes to the resize pointer, so you know the next action will be to resize the graphic. In Final Writer there is always a little guess work involved in knowing whether you are about to select, deselect or resize a graphic's box, as there is no way of telling if the pointer is over a resize handle or not, until it is too late.

### AREXX SUPPORT

ARexx was probably the last main feature that Final Writer held over Wordworth. It was always the case that Wordworth had no ARexx port, but whether this was any major disadvantage is debatable, as I am sure many users do not even touch the function, even though ARexx can be put to very good uses. For example, Final Writer did not have any text effects, but they were introduced to it by a third-party ARexx script that allowed you to spiral and wave text. This does highlight-the sort of complex manipulation that is possible through an ARexx port. Digita have already put this ARexx port to

good use through the addition of a new feature called Wizards. These are basically going to be interactive tutorials that will guide the user through various parts of Wordworth

such as mail merging, which can be quite complex and difficult to explain in a manual. As ARexx can access every part of the

As standard, Wordworth comes with its text effects, allowing you to apply several effects to a section of text. I have never really seen the point in these because along with being fairly slow, if you use any more than a couple of words you start to have size problems, with text overlapping or taking up to much room.

A third party did write an ARexx script called Final Wrapper that gave Final Writer the same sort of abilities. It works very well, but again it is the sort of thing you use once and never touch again.

One thing that I was hoping to see in Final Writer 4 was a table function, but it never appeared. The Wordworth table is very straightforward and simple to use. Once you have created a new table object you can adjust any of the cells to whatever size you want, and type text directly into them, applying styles as you would for normal text. You will also be able to 'hot-link' the final version of Wordworth to TurboCalc and import spreadsheets as Wordworth tables. This was not implemented on this beta version but will be available for the release version

Wordworth text boxes show a conceptual

difference to those in Final Writer. They act like a separate movable text window that you can type directly to and apply different styles to any part of this text. In Final Writer, once a text box has been created it becomes more or less a standalone graphic object that can be moved around and resized, with the text inside automatically resizing to the shape of the box. When a

the same. Both styles of text boxes have their own advantages and disadvantages, and a choice to create both would be very welcome



Wordworth program this makes it very simple to open up and activate parts of the program while giving the user a running commentary of what is exactly happening. This new Wizard system allows for future expansion by both Dirith and third parties.

So it is all very well and good having great

page layout on screen, but what about outputting it to a printer. Has this version of Wordworth got anything new? There are a couple of improvements here, one which will benefit most people while the other only owners of Hewlett Packard Laserlet printers.

### PRINTING

The one of interest to most people in the background printing, a wonderful function that lets you print your document without the wait. Once the printing has stated you are been to carry or and edit your document, be it autofiles to carry or and edit your document, be it autofiles when the processor interest as the example of the possible downside to this is that printing can be uniter processor interior as there can be a lot of data involved, particularly when graphics are only provided to the processor of the processor of the beging used. It may be that Wordsordhe becomes process hogging all the processor cycles, so neggring the feature.

negating the resture.

IP Laseder owners will be pleased to know that Wordworth now supports downloadable printer forst, which will speed up printing by huge amounts. This is because instead of the entire page having to be created dot by dot, which is what Wordworth use to do, the font description can move seen to the printer and only the ASCII test needs to be downloaded, so speeding up orining no end. The version of



Wordworth's new style sheet makes it easy to apply preset styles to paragraphs or selected text

Wordworth that I have been looking at is only a beta version, made evident by the Wordworth 3.1 logus that still adom the icons and startup screen. From using the program, and the helpful notes supplied by Digita, is apparent that the program is almost complete, with only the interface to the new Wizards and Afbex waiting to be updated.

I have to say I am mightily impressed with this latest version of Wordworth, even in this beta form. I have always dismissed earlier versions as they seemed to be slower than Final Writer when it came to move things around the screen, but this latest version seems to shift text and graphics around with competent speed. I think SoftWood are going to have to pull their proverbial finger out, as Digita have done themselves proud.

Even this beta copy is running fast on a A1200 with no problems. It seems while SoftWood have been twiddling with Final Writer's interface, Digits have been working on adding some constructive and useful features. It has even been updated specifically for the Picasso board, and perhaps they may add even more for the final version.

# EATURE COMPARISON

### GRAPHICS

With both programs having virtually identical text manipulation tools, apart from Final Writer's grammar checker, the ability of each program to manipulate graphics is the only area left that could differentiate them. When doing any type of document it is always useful to be able to include diagrams of one sort or another, because not only do they brighten up the document but they make it easier to read and can add dainy to whatever it is you are writing about.

Both programs allow you create basic geometric shapes that you can then re-scale and move around. With a bit of thought and patience you can create fairly complex diagrams, and to help you both programs have similar functions available to manipulate individual or groups of graphic objects.

Once you have a number of shapes on screen you will have to start to move them into position and arrange them in the correct sequence. Functions available either from the tool bar or menu options let you push graphics to the front or back, lock graphics in place, and a group selection allows you to treat a number of objects as a single group.

I tried to create the same diagram in both programs to see if there were any noticeable





differences that showed one program to be easier to use than the other. The first thing I found was that Wordworth's tables can be used very nicely to create grids, but in Final Writer you have to mess around individually aligning lines which is very time consuming. The ability to leave out the scale requester, as it is modeless, is also helpful.

Final Writer does have its own advantages.

I was saying that the intelligent way Wordworth's pointer works is helpful, but being able to select graphic-only editing in Final Writer has its own plusses.

Each time you clicked on a graphic in Wordworth it flicked the screen to the top left of the screen as it switched to text mode, and after a while this got to be very

A major problem for Wordworth was when I came to resize a group of objects. The results were a complete mess, especially when compared to Final Writer. The main problem would seem to be the text boxes and tables, as these cannot be scaled, but even some of the normal objects did not seem to scale correctly.

atastore 2 is the latest incarnation of Digita's Amiga database. Before I start you should understand that Datastore is not a relational database, it basically allows you to store, manipulate and search through a flat list of data. The only relational database I know of for the Amiga is Twist 2, not that being a relational database is necessarily a good thing, since you really need a degree to be able to design

and create a reliable relational database. Installing Datastore is made very simple by Digita's usual Installer script, allowing you to install Datastore onto floppies or a hard drive partition. The whole Datastore package is fairly compact, taking up less than 1Mb of space.

As I was saving before. Datastore allows you to store lists of data grouped into records, each record in a database having the same fields. Fields are either textual or graphic in nature, and along with the normal user entered text and numeric data fields, there are a number of other specialised fields that can be chosen

A date field is available along with time and boolean fields. The latter is quiet interesting as it allows you to define a list of preset choices, so restricting the user, when they come to fill in that field.

whatever entries you have made. The graphic field is very flexible due to the fact that it supports picture datatypes. Therefore, all the various picture Datatypes you have installed are the picture formats that Datastore supports. When adding a graphic to a new record, you click in the picture field and a file requester pops up allowing you to choose the picture that should go into that record's

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### field. The image is then loaded, remapped to the screen colours, and scaled for the box SECTIONS

The use of Datastore is split into two distinct sections, the first being the design side. Here you design what the form will look like and where data is entered into the database. Using a simple point and click interface you can quickly place entry fields for any of the supported Datatypes, along with captions that can be in any Amiga font. As for graphics fields, any supported datatype picture can be placed on the form and scaled to any size.

Once you are happy with your design you can then switch to the other side of Datastore and actually enter data into the database. You can have the database sorted on any of the fields and can perform searches on any field.

I'm sure current Datastore owners would like to know what is new for version 2. Well, the main addition will be quickly recognised by anyone who has used FinalData. Normally with Datastore you are only able to individually view records through the forms you design. This is fine for just flicking through records, or if you want to do a search, but if you wish to view many records at once, or need to perform operations on many records

it is limiting.

The new list view organises all your records into rows, with each column representing a field. The width of each column can be individually changed, and you can move fields around by grabbing the field title and moving it to wherever you wish it to appear in the list. The entire list can be quickly scrolled up and down using the normal windows scroller.

By selecting individual or multiple records you can delete, cut and copy large blocks of records. Alongside this a new query mode is available. By selecting a group of records you can choose to hide these, and a switch option will switch the currently selected records with any hidden ones. Any other queries now applied will only take effect on

the visible records. Other improvements allow you to print each record graphically, so whatever form design you come up with, you can print this out with each record. At the moment, it is only possible to print either the current record or every record - there is no way just

### Jargon box

Public Screen - 'New' for

to select a number or range of records. Other minor improvements allow you to have the find requester constantly out on the screen. making editing records a little easier as the requester will always be at hand, and finally you can choose to have Datastore open its window on any public screen.

# INAL WORD

Overall, Datastore is a good straightforward database. To some the ability to design flashy forms may seem a little pointless, but the ability to actually print out these graphic forms give then a purpose beyond just an aesthetic one. It is simple enough to learn and use and the full on line help will help you out of any difficulties

For current users the main bonus of upgrading is the new list view mode. For anyone with a large database this is of genuine use, as it does provide the best way of viewing large amounts of data.

format superstorage Neil Mohr tries to

> spot the additions in Datastore 2

Bottom



O Datastore allows you to splash graphics and caption

020/030 Datastore Digita

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AMIGA COMPUTING

ou just cannot seem to get away from the Internet. As if the expansive coverage it gets in the normal computer press and magazines is not enough, the Internet has well and truly permeated the normal news, even though you

may only ever seem to hear how evil and corrupting it is.

With Internet fanatics spouting crazy figures about how many people are on the Internet, and new Internet providers popping up by the day, it looks like the it is going to be a permanent part of our everyday lives. Amiga users have always had quite a strong presence on the Internet, with probably the most organised and expansive software collection currently around in the form of every coverdisk editor's dream Aminet, to the large number of Amigarelated news groups. This could quite possibly be because Amiga users have always had the tools necessary to browse the various parts that make up the Internet freely available, including the currently most prominent form, the World Wide Web.

### AMIGA PRESENCE

It used to be that the main presence of the Amiga on the WWW came in the form of the very good Amiga home page, stored on Omnipresence, a Web server that itself is run on an Amiga. Other than that you were left to a few user home pages and any Amiga companies that wanted to have a Web presence. Things, however, are starting to pick up, with almost all Amiga magazines having a Web site,

# TML ENGINE

ram that has not been released and is still in a very earl is HTML Engine. This is going to be similar to Web Maker with a gle drag and drop interface that has a direct link to AM owing you to easily see what the design currently looks like. All the most common HTML commands will be readily ava ce that has a direct link to AMos from buttons on the interface or via hot keys. If you wish to add to other sites there is a list of current links, so you can easily as . The author also plans for the HTML side to be only one facet IL Engine. He is writing the program so that you can create Perl ARexx scripts as well using the same interface, with each one

# threads

With the World Wide Web exploding faster than a fast exploding thing, Neil Mohr takes a look at what is available for Amiga Web authors

the new Amiga Technologies site, and the almost daily expanding Amiga Web Directory. It looks like Amiga Web sites are quickly gaining in number

This trend looks like it should continue. With

the imminent Amiga Tech Internet package, the number of Amiga owners on-line could really take off, many of whom will be demanding good Amiga information resources along with being able to create and maintain their very own Web sites. So how would budding Web authors find more out about Web authoring, what Amiga software is currently available, and how well does it perform?

When it comes to the design of HTML authoring tools there are a number of approaches that can be taken. The simplest, and currently the only one used on the Amiga, is to create your Web pages using a normal text editor, inserting the HTML commands as you go along, and then to test these pages using a normal Web browser. All the current Amiga tools take this approach because it is the simplest.

### ROUTING

The most obvious other route is to have a full drag and drop graphic interface that allows you to position text and pictures, add links and forms, then save off the HTML code. The reason this approach has not been taken is because you might as well write a full Web browser at the same time. Such a program is not even really available for any other platform. Though programs such as PageMill come very close, it is still necessary to view the Web pages with Netscape.

A final approach, used on the PC and Acom. is to allow the user to design Web pages on a current DTP or Word Processor that allows you

# TML-HEAVEN

Probably the longest running Amiga HTML authoring tool is HTML-Heaven, currently up to version 1.3. As I mentioned before, Heaven's approach allows you to use your favourite text editor to create your Web pages and then use AMasaic or iBrowse to view the finished version.

Built into this latest version of Heaven is an auto-update function which will magica-Ily update AMosaic with any changes you make to your Web page. Not that having AMosaic running on its own screen and flick-

ing between the two was really any problem before. All you had to do was then hit the reload button to see all your new changes. HTML-Heaven makes the most of the Amiga's ARexx abilities. Four programs let you add all the various standard HTML codes along with forms and Netscape's extra commands, then all this is sent to your text editor via ARexx. As many of the HTML commands need a start and finish command to mark out the block of text it should effect, HTML-Heaven allows you to select a block of text as if you were going to cut it, and then if you apply the HTML code, the start and finish cades will be placed at the beginning and end of the marked block. Some of Heaven's interfaces are a little awkward to use due to their small size, but all the HTML commands are readily accessible, so allowing you to quickly add formatting

commands For HTML beginners, Heaven also comes with a very good AmigaGuide that describes the basic HTML commands very well.



C Allowing

# WEB MAKER

Providing a similar solution to HTML. Heaven, Web Maker takes a slightly different approach. The interface is dominated by the edit area, which is where the HTML commands are added to any text you want. This obviously differs from Heaven which allows you to use your favourite text

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editor, but this approach does have its own advantages. The main advantage is that the interface is an App window which or any other type of file into the Web Maker window and add the correct sort of link or HTML command. You may be



editor, but it is quite nice to use, adding a more Mac-like editing system. This allows you to select an area of text and then delete or replace the whole area with whatever you type next. If you do not like the editor, you could always write the body text in your normal text editor and import it Jargon to Web Maker.

The drag and drop approach does make box adding graphics and links to other sites a WWW - World Wide Web. just fairly easy business. You just move the cursor to where you want the new link in your text, drag the file over, and the appropriate HTML command will appear

### COMMAND CONTROL Web Maker does a similar job as HTML-

apprehensive about using the built-in text

Heaven when it comes to adding commands. You highlight the text that the effect should be applied to, hit the appropriate button, and the start and finish commands will be placed around the MUI - Magic User Interface, a select text

Compared to Heaven, probably the biggest problem with Web maker is that even though it has all the current HTMI commands, they are only accessible through Workbench menus. This is much slower than having a window with each command having its own button, as HTMI heaven does. Some sort of list view with the commands in would be a welcome addition

With a handy list view holding link addresses to graphics and any other sites you may wish. Web Maker provides a good integrated HTML authoring

# TML COMMANDS

If want to learn how to create Web pages you need to get hold of some sort of HTML reference manual. A good introduction AmigaCuide comes with HTML-Heaven, and this is good enough to get you going. For people on the web The Planet Access HTML page on http://www.planet.net/pa2html.html has links to loads of HTML references, probably more than you will ever need. The following are some of the basic HTML codes that would allow you to produce a basic Web page. Many codes apply

Web pages

HTTP - Hyper Text Transfer

an effect to a selection of text. To mark out the text there are start and finish commands, and the finish command is always the same as the start commands but with a / add to the front of it.

Browse – still under develop

<HTML> </HTML> Marks the start and finish of the Web page Encloses the page header. Some browsers allow you just to browse page headers to <HEAD> </HEAD>

speed things up

Marks the start of the main page text

Where 'x' is 1 to 6. Marks any text that should be in header text, with 1 being the largest text, 6 the smallest

Indicates that a paragraph should be inserted here Replacement for the old paragraph marker, allows text alignment such as left, right

Denotes a link to another document or link, while NAME marks text that you can link to using HREF

Marks an entry in a list Ordered or Numbered list

Adds an in-line image, along with text formatting

Adds an external link to a file or image Usually allows a means of e-mailing the author at the end of the web page

to add graphics, save the document off, and then process this saved document and produce the HTML code. I think this would be an excellent idea for SoftWood or Digita to take up. It may even be possible to use their ARexx ports to interrogate the current document and generate the HTML code from it this way. It is possible to find out graphic positioning and text style information from Final Writer's ARexx port, so it may be possible. Unfortunately, no such solution currently exists, and I cannot see such a program or ARexx extension being developed as the demand for it is too small.

This currently leaves only three Amiga options open. The first is to manually enter all the HTML codes. You could speed this process up by assigning HTML codes to function keys. but this is still a far from perfect solution. So any program that can provide a better way to add HTML code to your program is going to be very welcome.

Your main three problems when trying to organise a Web sight are going to be formatting text with the HTML commands, adding inline graphics and links to other pages or sites. The easiest way of doing this is to produce the text you want to include in the Web page, format this with the HTML commands, and then start to add your in-line graphics and links to other sites. Consequently, any program must allow you to easily add HTML commands. [5.9] <P ALIGN=x> </P> <A HREFINAME> HREF </A>

CITILE C/TITLE

<BODY>

<Hx> </Hx>

<UL></UL> <0L></0L> <HR> <IMG ALIGN-top SRC-image> <A HREF = image>words</A> <ADDRESS> </ADDRESS>

AMIGA COMPUTING

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# ET IT ON THE DISK

As you become more familiar with the soft were available for your Amiga you will notice that many programs can be installed onto a hard drive. If you are using an Amiga without a hard drive, make it your first priority to get one. However, there are many excellent software

titles out there that apparently have no installer program, making them seemingly useless for your setup. Don't be put off - most application software can be installed onto a hard drive. it's just a case of knowing where to put what. To the beginner, the mere prospect of copying software onto a hard drive is an ominous

one, but it really isn't that difficult. First of all you need to find out exactly what

is on the disk you are trying to copy to your hard drive. The best way to do this is to insert the disk into DFO, run the Shell and type in:

This will display the contents of the disk with further directories, marked by (dir). The

that this could ever happen then think again!

back onto your hard drive from the original floopy disks.

Data

joke!

user

BACKUP WITH EASE

If you own an Amiga with a hard drive you may have never spared a thought to what would happen

if your hard drive became corrupted, or even worse conked out completely. If you weren't aware

Over the past three years my hard drive has 'gone down' no fewer than 16 times - not bad you

The obvious solution is to back up your hard drive regularly to floppy disk. Unfortunately, backing

Backing up to floopy disk is something you cannot avoid but there is a better and far quicker way.

Create a drawer on your hard drive, or better still a partition, called Data. Everything you create with

your applications, whether it be text or graphics etc., you can now copy and save into Data. Now, all

you need to do is back up this directory or partition only - you can always copy the applications

may think, but one was so fatal I had to purchase a new hard drive, losing all my precious work for-

ever. And believe me, when your hard drive gives up the ghost your whole world falls apart - no

up an entire hard drive to floppy can take hours and can take hundreds of floppy disks.

rportant directories you want are called Libs, C, S, L and Devs. These directories are present on your hard drive and you should copy the contents of the above mentioned directories into the ones on your hard drive

Don't copy files across that are already present on your hard drive, just the ones that you haven't got. As an example, let's suppose you wanted to copy a file called ReqTools.library from the Libs drawer on DFO to the same drawer on your hard drive. To do this you If you're new to the Amiga home computer or simply an old hand who still cringes at the mere mention of Workbench you've come to the right place would type in the Shell

C Install softwa by hand with ear by copying the files on the origi disk to the appropriate directories on our hard drive

copy DFO:libs/reqtools.library to Workbench:libs You can then make a directory with a suitable name in a location of your choice and copy the

actual program file from DFO: into this new directory. The program should then run okay.

DIE

# WONT

Jargon box Assign - this command allows you

Partition - a partition is a specified

Everything seems fine. You create new draw ers, you delete old drawers. You're in perfect harmony with your machine when suddenly a particularly stubborn little drawer refuses to die. No matter how much you try to kill him he still clings on for dear life, flashing his obstinacy and constantly repeating the message 'Error while removing (202) object is in use'. Then suddenly everything grinds to all halt...

The reason why he won't go is simple Some drawers (directories) have what is called an Assign made to them which is simply a label that directs a particular program to that directory. A drawer cannot be deleted if it has an Assign attached to it (Assigns are explained in more detail later on).

Any Assigns a program needs should be entered in the file User-Startup in the S directory. Open the Shell and type:

You should look for a line that begins with Assign and has the name of the directory you are trying to delete at the end of it. For example:

Delete this line, save the new User-Startup file, and then reboot your Amiga. Now the Assign has been removed you should be able to

67

delete the drawer.

O Don't be a loser! Make sure you back up your hard drive gularly otherwise you could end up losing precious work

AMIGA COMPUTING

# DRAG AND DROP

If you are using the Workbench Icons... menu command Copy to duplicate disks you'll be pleased to know that there is a simpler method if you are lucky enough to own a second disk drive.

Put the disk you wish to copy from into DF0 and the you want to copy to in DF1 (your second disk drine), When the disk icon for DF0 appears on the Workbench simply (lick on it once and with the left mouse button held drown, drag and reless it over the disk icon for DF1. The copying process will now begin. Simplicity is such a beauful thins.

# Y OU ARE

I briefly mentioned Assign earlier but this command is so useful it deserves more of a mention. Assign is powerful in that it allows you to access a particular directory by a single name. Assigns are normally made by programs during installation or startup and invariably reside in the User-Statup file in the S directory.

Some Assigns are made by your Workbench and can be found in the Startup-Sequence also located in S. However, these are required by Workbench to operate properly and should not be

touched. Let's imagine a scenario in which you created a drawer in the Workberch Utilizes directory called Pictures which, strangely enough, contained all your graphics. To save and load pictures to and from this drawer you would need to select Workbench, then Utilizies, and finally Pictures from your paint package's file requester. Using an Assign such as

Wasign Pictures: Workbench: Utilities/Pictures

instead, and you would automatically go straight into the Workbench:Utilities/ Pictures drawer. You would put an Assign like this in your User-Startup file using Ed. Some programs look for an Assign which may not be enabled. If a program

Some programs look for an Assign which may not be enabled. If a program kicks up a requester stating 'Please insert volume <a href="Assign called <a href="Assig

Assign is flexible in that you can remove it without having to actually delete it from the User-Startup file. To remove an Assign open the Shell and enter:

Assign coates reson

y simply selecting the appropriate label



C Don't bother with the menus. Utilise Workbench's unique drag and drop disk dualication

# SOUNDS FAMILIAR

Using Amiga Workbench can be a lot of fun and there are many different ways you can alter Workbench to suit your own requirements. Apart from the usual graphic changes you can make, you can also alter the way in which your Workbench informs you of errors. Located in the Prets drawer is the program Sound. This program allows you to change the

Located in the Prefs drawer is the program Sound. This program anows you to crange the alert settings which can either flash the screen or play a sound effect, or even a combination of both.

both. The Sound Type: button can be switched between the standard Workbench beep or a sound effect of your own choice which you can select with the Select Sample.. button. The samples you load must be of the BSVX or IFF form. You can get sound samples in this form from magazine coveredisk and PO (Public Domain) houses.



funny story about desktop sound ffects, but I won't. They can be great and highly annoying to others. Use your imagination

# S\*(^)\*S:

If you find that your E signs look awfully like a S sign, or vice-versa, you probably have the wrong key map selected. Run the input program in the Prels directory and you should see a list of your current keymaps on the right-hand side. Provided

you have installed the correct keymaps you should see the one for your nationality. Simply click on it so that it is selected and then select Save. Open the Shell and you should now find that your Amiga is printing the correct keys.



C If you don't feel ready to learn another language, make sure you select the correct keymap for your nationality

# MISSING DRIVER

Although a printer is a fine addition to any home computer, many users shy away from them due to their apparent complexity. One of the biggest printer-related problems is that of the stranded printer driver. A suitable printer driver is required in order for your Workbench to be able to communicate successfully with your printer.

When you purchase a new printer you may be fortunate enough to get a dedicated Amiga printer driver, but in most cases you must send off to the retailer, most of whom are

very obliging.

The real problem comes when installing the printer driver onto your Workbench. Where do
you put it? Once again, the solution is very simple. Located in the Workbench Dess directory is
a drawer called Printers. It is here you should copy your printer driver to. You can then select
your printer driver from the Printer program in the Prefix offerctory.

ower were the first company out with a 660 compatible board, but Gordon Hanwood are first to place one on our desk for a through good seeing to. Well this is what all you A1200 speed freaks have really been waiting for — an 060 board. The first thing that strikes you about this

thing that strikes you about this board is just how sparse it is, the 060 chip taking up the majority of the space, but with only five others chips being visible. I would assume this is a good thing as it means less

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to go wrong in the future. The shape of the board is identical to that of the Blizzard 1230 accelerator, with an edge connector along the side of it allowing a SCSI module

to be added at a later date.

Fitting the board is very straightforward due to the extra space provided by the edge connector, and once in place there is a good continuet or from at the end, allowing the board to be removed easily. As the 060 is only a 3.3v device a fan is not needed, and I had no over heating problems even after the computer.

was on all day.

The board will accept any 70ns or faster, single sided 72 pin, 32 or 36-bit Simm. This restricts the largest Simm the board can take to



The new SysSpeed benchmark program provides realistic figures by using actual Amiga programs to Varning
Neil Mohr has been
running around the offices

a 64Mb Simm – if that is your idea of a restriction – but apparently the latest Mark IV SCSI connector being produced by Phase 5 has the additional feature of allowing a second Simm to be fitted, which can be up to 128Mb. So in theory the 1260 can have a total of 192Mb fix the do by 64Mb on the main board and 128Mb visit he SCSI expansion.

### COMPATIBILITY

I have also been informed by Gordon Harwood that the Mark N SCSI module works with the Bitzard 1230 accelerator, so any 1230 owners with the mark IV SCSI modules could upgrade to the 1260 and keep their current SCSI module.

So how does it perform? Well what did you expect me to say. If you want the fastest Amiga in the world get this board. System shows it to be running around twice the speed of a A4000, but this does not do the 060 justice. Even 'real world' tests such as tha and XPK Neil Mohr has been running around the offices saying zoom a lot. The Blizzard 1260 might just be the reason



crunch times show the 060 to average three to four times the speed of an A4000, and AIBB shows that the 1260 board does almost three times as many MFlops as an A4000.

Viewing and saving Jupps becomes as first or normal ILBMs. Your must also remember that programs can be compiled especially for the 050 chy, and these programs can take advanage of the 60% new supersolar architecture and gain a further speed increase. However, whether companies will produce such a version and the speed of the day of speed and the speed of the day speed of the speed of the day speed of the speed of

# OOM AND GLOOM

One interesting side effect of the 060 is that certain mathsintensive programs can actually cause all manner of problems. The problem with several Amiga applications on the 68040 and 68006 is that they are compiled for the 6888x maths co-processor.

This co-processor has more FPU instructions than the 804004 and 80500, mainly complet removemental functions such as sine cusine and openshmic, and these instructions have to be emulated on the more advanced 80500 process. Soc. Unknown instructions cause a trap and during the trap the emulation has too find the right emulation nutrities and and this function. In a trap the processor is in the Supervisor mode and no other tasks can run. This effect is sixible by the mouse (exiking around. The system will become more unassible the more unimplemented disnutcions are used by an unassible the more unimplemented instructions are used by an formation of the processor of the system will become more unassible the more unimplemented instructions are used by an trap of the processor of the processor of the processor of the processor.

Obviously this is going to effect the people who will benefit most from owning an 060 mochine – roytracers. To get around these problems, Phase 5 have provided a number of programs. CyberPotcher, the main one to use, tries to patch the most used instructions that have to be emulated. The speed up depends on the program but the main job is to prospect up depends on the program but the main job is to pro-

vide a smooth system where you can work with no annoying blocked system. At the moment CyberPatcher supports the following programs:

-Mand2000d(large speed up)
-SceneryAnimator(large speed up)
-Instal Pro
-Vistor Pro
-LightWare
-Real 3d

The difference is very noticeable when using Mand2000, from rendering no faster than a normal A1200 before hand, to rendering at least 30 times faster after CyberPatcher has been run.

One disappointment is that this problem also seems to be effecting most of the current Doom clones for the Amigo, I was looking broward to trying Breathless out on a full screen, but the actual realize speed ends up being worse than a normal A1200. I have been told by Gordon Harwood that Cyber Pattcher will be updated, and they are currently collating a list of programs that needed to be Tised.





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# SYSTEM news

By Andy Maddock

# Anyone for tennis?

n this very issue you will be able to read a review of Audiogenic's latest tennis simulation and once vou've done that, this little bit of news may interest you.

There are some Super Tennis Champs data disks on the way and the first will contain all the lady competitors. Also, if you use it with the original, you will be able to set up mixed doubles competitions, etc

It will be available soon priced at £7.99 and for more information you can contact Audiogenic Customer Services on 0181-424 2244.

## Punishment on-line



Capital Punishment could take fighting go nto the next millennium. We hope so

Also in this issue we have reviewed Capital Punishment by Click Boom, so if you want to play the latest version you can FTP to your favourite Aminet site - for Great Britain it will be located at Imperial College at src.doc.ic.ac.uk and you will then find it located in the Game/Demo directory.

Super Tennis Champs is fast becoming one of the finest tennis games on the Amiga

# Free games and stuff

Recently we've received a couple of letters any queries about the Amiga games market then don't hesitate to put pen to paper or finger to keyboard and either post or e-mail your problems to us, and we'll do our best to provide some answers. We may even hand out some free games in exchange for some decent letters or

So get writing - but don't bother calling by we had to stop every five minutes to write down a cheat, we wouldn't have time to write the magazine! Send your cheats to the address printed on the comment page of this

# The Wizards of Oz



game developers from way down under in Australia who have arrived on the Amiga games scene with a game which has been in development for quite some time - only they won't tell us how long!

The title has been confirmed as Uropa2 -The Litterior Colony and from what I've seen. it's looking surprisingly good. The concept behind the whole idea is basically space. The idea is based on the moon called Europa which orbits the planet Jupiter. Taking control of a Tekite Warrior means you have the

responsibility for completing some important missions. They include rescuing colonists. destroying communication rooms of the main network guiding stranded hover vehicles and rescuing hostages.

To help you along the way you will be able to access and log on to computer terminals to access new weaponry and repair facilities. as well as becoming a net surfer, downloading information to sell giving you some cash to play around with. Not only is the game an arcade/



The title screen looks particu



his screenshot reminds of an old Spectrus ne entitled Nomad... although graphically Iropa is far superior

adventure-like romp, it will also turn into a shoot-'em-up when you need to travel some where else. There are also a couple of sub missions thrown in to make this slightly moti interesting. The game is viewed isometricall in a 3D fashion, accompanied by some excellent light-sourced vector 3D graphics.

Uropa2 will feature multitasking, an AG enhanced version, will be hard drive insta lable, and the developers are still considering if they will they do an ECS version with a CD3 version to follow. If the gameplay can matc the graphics then we may well see Uropa very soon.

# Shopping on a Saturday afternoon

Thoughout these past four or five months we have slowed some shelfly unsure about the amount of games system would feature. But them is to all holes great layed softwere houses at these were to be the past and with the second them are the second to be the past of the second to the

If you can cast your minds back to the early Spectrum days of games like OutRun and Chase HQ then maybe you'll have an idea of what City Cars plays like. Although this effort is actually in colour the gameplay is

fairly non-existent.

It features two city cars which you'd



Games of this quality should be banned. I'm sorry if I'm being so harsh but it really is utterly unplayable

expicit your grandporsets to drive when they're off theyong and what is note is the tact that when you pick up the joyatick you do feel as through you are a rather sightly impaired pensioner because you can't even keep it in a stayful line. Also, when you put your foot down it seems to go about 300 mph the similarities above pensiones and City Cas tals off, as they usually prefer to go at amph... on a motorway.

I do feel somy for Alan Surgess, the programmer, because he's probably spent a long time on it. But I'm sony, it just cannot compete with the quality of games out there cheady. Anyway, here are some screenshos just to prove it. Although I've judged it from first bolis, we may give if a full review if we've got enough space.

# Trapped inside my cyberpants

Trapped
Das Kad von Talmar

We only received this minutes before deadline so we'll try and expand on this rather poor effort of an article next month, OK?

Trapped is a new game by German developers Oxyron Software and is a Doom/Dungeon Master like game, it captures all the thrills of dungeon exploring as well as all the graphical capabilities of Doom

The full title of the game is Trapped: The Bicycle of Death, o'therwise known as a Rafeigh Chopper. Nah, we're only kidding.

We downloaded this preview from Aminet and

with its possibilities of being a brand new Doom clone we decided to let you know about it.

cone we decided to let you know about it.

Soing back to the dodgy translation of the title before, it was actually Das Rad von Telmar.

So from my GCSE exam I remembered that 'Rad'
meant bicycle and we assumed 'Telmar'
must've meant something negative such as...
death! But, et if doesn't, so, et... we thought it was



Here's what it won't look like as the programmer is intending on changing the graphics completely

# A cheap Obsession

Hurrah! Thanks to the January sales Obsession ha now been reduced by a ten ner. It used to be \$29.95 and s now priced at \$19.95. Yey that's it.

## Doh!

Our friends at Domark are now on-line, joining the so very few Amiga publishers such as Team 17, Ocean and MicroProse.

You will now be able to find more information about Domark's latest offerings including the most eagerly awaited football management agme ever - Championship Manager 2.

The life provides links to many different pages for players and non-players of Championship Manager as well as an IRC channel for you't to discuss virious. Footballing and Championship Manager issues. If it well worth checking out exhaus through it is still in development. The address is hitp://domark.com/



If you've got an Amiga homepage with some new game news/demos/ screenshots, let us know



# system review



Here are the league tables from the first round on the Grasslands track. As you can see, I'm not doing too well



Guildhall

HD INSTALL

PRICE

Yes

Silltunna Software

ast month we brought you a preview and mentioned that this game was tooking particularly good. If you've ever played Super Matrio Kart on the SNES then you'll undoubtedly have an idea of what to expect. Considering Matrio Kart was, and probably still is, one of the finest games. Nintendo have ever produced, to describe this as an Amiga version wouldn't be

straying from the truth.

Over the last few months the games side of the Amiga has all been pretty similar. For instance, the games have all tried to be quick-especially the Doom clones. To enable the best speed, defall levels, resolutions and screen sizes have all been made completely configurable, leaving it up to the user to play how they propried to the user to play how they provide the configurable.

Enterne Racing, or rather kitemen Bacing, as it has wall decided to call liself, comes complete with a menu containing a feast of options which let you change more of less everything, fou can change the controls, weapons, car settings and laps, as well as the in-game options which allow you to finiter with the more technical capsects, namely frames per second, pixel sizes, dithering, and switching between the bitter and C29.

screen modes. The actual game features three modes of play – a single race mode, a cup race or a complete season. The first is backally a practice session and it won't really mother if you happen to finish in last place; the cup mode is spill up into three – the Toroise Cup, Custard Cup and Xtreme Cup – the latter being the most difficult, containing awakard computer drivers and



alright so it's not a particularly interesting screenshot! I'm doin' me best chief!

# Lowering the tone

The only point that may lower the tone is that even though it may look brilliant and play like a certain cheapness. I am, of course, referring to the sheep, lemmings, and men by the side of the road. I suppose the sheep would have been okay because it is very funny to see a high speed sheep flying on your tail ready to explode at any moment. Although there are lemmings walking up and down trying to stop been better, or not at all. Younger players may find it instantly hilarious and bask in its warm summer allow that is humour, but older players may be a little disappointed with the cheap jokes. It would have been better to stick some trees in the way rather than a badly drawn lemming

tough tracks with many obstacles. The Season mode is a complete tour throughout the game, and in the Silltunia Grand Prix, depending or where you actually finish will result in how many points you will receive.

There are eight other drivers to compete against and they all have varied attributes which you must look out for during a race. Each character also has its own particular car.

Super Mario Kart boasted an excellent mode whereby your kart had three balloons surrounding it and the first to pop all three would win



You can preview the tracks by pressing the corresponding keys to see where the corners and obstacles are



Pressing escape during a race will bring up the many hundreds of option screens you can change everything!

This is actually a two-player split screen with a tracker camera showing the action from a different angle



You see this caption here. I can't remember what the picture looks like, so... er, here's a picture of Xtreme Racing - phew!

# X treme

These could be popped by missles and carefully positioned banana skins. Xtreme Racing contains exactly the same as this although the banana skins have been replaced with sheep.

banana skins have been replaced with sheep. There are three levels of difficulty so the game will last for months. The computer-controlled cars are extremely tough on the easier





8n Is 2n 3n 4n 5n 7n 6n Mreme
This is the smallest screen you can play Xtreme
Racing on - It's faster than a bullet but about as
interesting as our Coverdisk Editor.

Racing

levels so I can't imagine how much practice you'd have to put in to get up to a winning standard.

There are also around 10 different courses, each with two different tracks. The second is usually littered with tight bends and annoying obstacles which will undoubtedly frustrate you beyond belief.

The best thing about Xireme Rocing has to be the 3D testure mapped graphics which are thuy superio. They are mapped graphics which are thuy superio. They are lided to the discovered there is an infinite amount of angles you can view your can from. This oil adds up to being nothing short of perfect in the presentation department. As mentioned before, there are options galarier and the graphical presentation screens are of a highly enfolsational standard.

I will point out that you will need either an A1200 or A4000 with at least 2Mb of RAM, and an accelerator is strongly recommended if you want the best speeds.



Selecting your character reflects on your personality. I chose the big hairy ape! Hoo! How funny is that? Not very?

6 The best thing about Xtreme Racing has to be the 3D texture mapped graphics which are truly superb 9

# Final word

If you have loads of friends gagging for a bit of multisimultaneous action then there's nothing better than to link two Amigas tagether via a null modern cable so all eight people can take part (four on each screen). Even with the screen divided into quarters it still doesn't restrict your view of the action which is quite a surptise.

There is no better multiplayer game available to satisfy the needs of eight people. The graphics are excellent, the sounds are good and it plays like a dream. What more could you possibly ask for from a came?



# preview

What are going to make this different from the last are almost certainly the

options 9



Unlike the first Gloom, the deluxe version features proper puzzles to solve



The same old soldiers still appear with their same old screams and yelps



greets me on a Saturday night in the pub

# Gloon Deluxe W. have you notoed dryffing



There will always be people who complain about the blood. I think it's great!

ey, have you noticed anything different? Look a little harder. Yes, that's right, there's only one Doom clone this month. 'So what' you're bookbyth minking, well if you read the you'll notice we've been reviewing two or three we've been reviewing two or three

every month.

I still don't know what the attraction is, what makes Doom so much better than a couple of seasons on a football management game. Don't get me wrong, I'll happily play all these Doomities games. I'l's just that I can't see the attraction in copying the original Doom. Why should we bother nicking their lades. I'm sure many Amilga

developers have original ideas somewhere, so let's see a game they'll want to copy.

After Gloom received 81 per cent three or four months back, Guildhall Leisure finally come home for tea with their first pseudo-data disk. And

suely not the last.
What are oping to make this different from the last are almost certainly the options. They've managed to susees more and more playing options into the garms to enable you to choo and change the features you consider the properties of the proper

Although there are many people out there with a standard A1200 with say. Sensible Soccer there are many with either an upgraded A1200 or A4000 who aren't really getting good gaming value for the price of their machine.

Guildhall Leisure are leading this campaign for games players to get the most out of their system set-up because last month we saw them release a racing game entitled Extreme Racing which could be completely configured depending on your own set-up.

For exemple, if you bought a graphics cord solely for use with an art poctage, why should it stop there. If you can buy games that will manipute and take advantage of it then why not. Although these people may be in a minority, they are growing very slowly by upparding their ASOO to either an A1200 with an accelerator or even an ADDO. It may cost authe a bit, but people are still.

doing it - moving with the times that is.

The good thing is, you can still manage to play these games such as Gloom and Extreme Racing on a standard A1200, dithough on an accelerated machine they are far more superior.

# Change of scenery

The options in Gloom Deture include being able to change the game to classic, enhanced or CS feliandly so you can play it as it used to be, graphically enhanced or in a workbench window. There will also be support for various graphic cords, as well as the new and rather expensive Virtual laigueses.

gasses, the whole Doom level system will be completely re-vamped with new levels, and new places and stages. All the resolutions and screen mades will be completely configurable, dilowing you to play Gloom in super H-tes for example, so the graphics will instantly escape that original pixel look and have a look similar to that of Beatthiess.

# Insight

From what I have nofliced from the preview version. the mazes are slightly harder—instead of opening a door for bare chested madmen to run out. you can flick switches which will open doors elsewhere, making it more puzzling.

All this could add up to

All this could add up to being one of the finest Doom clones we are yet to see. All I can say is, if you've got a good machine, expect a very good Doom clane room.

# CD-ROM





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## NOTICE

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# Reviewed by Tina Hackett



Audiogenic

PRICE

Mental software

All Amigas, 1Mb



Travel around the world in the many tournaments

ood old tennis. It conjures nice, cheery images of Wimbledon, strawberries and cream and, best of all, summer. So you can imagine that getting a tennis game in the middle of dreary winter on a drizzly Monday morning was a real

tonic. Immediately my spirits soared and I let my mind wander to hot, summer days playing tennis in the fresh air - and then I remembered. I'm crap at tennis. Ahh, well, it was a nice image for a while. But this wasn't going to be a problem in Audiogenic's latest simulation as I later found out, and after a brief flip through the manual. the game can be immediately dived into.

What is instantly apparent is the style the developers have plumped for, and instead of a stats-laden, realistic simulation, the cartoon characters suggest that this game is going to be fun. Before getting straight into a match you have a range of options to select to set the game up to your liking, so everyone is catered for - from the poor novice (like moil) to budding

Agassi's. Once you've got to grips with the basic skills there are a number of different tournaments you can take part in, from an Exhibition mode to Grandslam, Tournament or League. Exhibition allows you play singles or doubles with 5 sets. Leagues can also be played as either singles or doubles and if you have a four-player parallel port adapter, up to four people can take part. As a budding tennis star, you also get to see the world through singles tournaments in Paris, New York, Melbourne or London.

Although it doesn't have tedious, mind-boggling stats, there is still a tactical element to it. Players have different skills and styles of playing which add variety and keep it realistic. Carlos, for example, is a young Spaniard (ohh, stereotypes heh?). Apparently he has a flashing backhand supported by speed. Chuck, on the other hand (American, if you hadn't already guessed), has an enormous serve and stunning forehand. However, as he is cumbersome he

# Don't get court out

The many courts offer a different style of gameplay (see? authentic, eh?) that will challenge

Hard - for the more experienced, this court is a real challenge as it will be fast-paced and will make the ball bounce high

Grass - expect low balls but still high speed Clay - high bounces but a slower paced game are to be found on a clay court.







Hey, check out the cool, bearded netcord judge



The sprites are nicely designed and well animated

keeps his rallies short. Control is either via a one or two button joystick or a CD32 controller.

All options work well but I felt the CD32 controller was easier for a beginner like me because the controls are located on separate buttons. For example, one button is for a normal shot, another for topspin, one for lob, and another for slice, whilst the directional pad controls the direction and length of shot.

Although having sound effects in this sort of game is nothing new - expected, in fact - they are notable because they are actually rather good and definitely enhance the afmachere. The crowd chees for the players when they score but you also get a sampled voice of the umplie which reis? Net? or 'Qu'f' as required, which works well in adding a touch of authenticlity, Graphically, the game has dato been clever.



Different playing surfaces provide a different style of game

# Playing to win...

Your competitors all have different skills, so take a look and you'll know what you're up against:

Buzz - Germany

He wears down his opponents with his powerful play.

Roger - English

A tough player but lacks inv

Ihara - Japan
A new player he has a weak ser-

vice. But with his speed he can turn a lost cause into a winning shot.

Greg - Australia
The former number one, he has excellent acility and a big serve.



The control system is intuitive and allows for a smooth game

ly thought out. The view of the court works well so that you can see all that is going on and employs a raised view as if you are looking from above the court.

The sprites are a good size, mainly beacuse they are easy to control but also because some animations have been included which add to the fur. The player can be seen jumping up and down excitedly if he wins, but if he loses has a McEnroe-type trantum. Too small a character and you can't see what's going on, too large and they would look cumbersome

# one which won't fail to impress 9

## Final word

Super Tennis Champs is a superbigame which takes have mitude to get find but ages to master. It's instantly playable and the infullive controls make it's determ to play. Saying that, you can either play with a playatic or CD32 joippad and as a personal preference, it found the joyppad a great deal easier. The carbon-style graphic work very micely too and look work very micely to and look

Although the game can be played tactically by weighing up the skills of the opposition, you can just jump

straight into the game as a novice and still get a rewarding match - until you can build up your skills to enfer one of the many tournaments. The game supports a four-player adopter which suits Super Tennis Champs brillantly (who says computer games are anti-social?), and it works especially well when you pit your skills against a friend with a simitor level of oblity.

All in all, if you like tennis sims you'll love this. But you'll also love this even if you don't! It's a great game and one which won't fall to impress!









The copy protection is something that is coming into effect more than ever before. If the Amiga is to live on, piracy must be stopped

have to admit hart flight simulations or action-procled war in the sides' games don't really appeal for me. I can't readly give you a reason why. It's obtuly played the first Zeevol't because of me. I want to see the sides of the second of capati what it was like, attrough I am Informed that it was very good, and it something can arouse our technical editor other than graphic capati what it was like attrough I am Informed accuse our technical editor other than graphic capations and capations then I seen that missing capations are seen as a second of the second of capations are seen as a second of capations are second or capations are second or capations are second or capations are second or

Zeworlf 2 was given a full preview a month or how ago and from them on looked liked it was going to be another excellent action game following on than the auctions of the fitz Zeworlf. Zeworld is the name of a fellicipaller with and balloadly use or burged straight into the action at a minute's notice because your oppoint for ficiplicity, who were defended in the first Zeworlf, have decided to take revenge because fits time around you didn't completely dettry.

There are 32 missions in total and they are all split up into various phases which are either divided into Seek and Destroy, Alriff, Escort, Rescue,

# Wild Justice



The status bar at the top of the screen will inform you of your ammunition, health, stocks and mission objectives

Protect Building (Nelvicle or Capitice building Model of the management or self-opproached nor most of the time you will find yourself friging obtoining to the time you will find yourself friging obtoining to the come hurtling out. The missions aren't executly found model word in present you with a hoge challenge, celtifugati howing sold that, they aren't ace very just a complete frame in ministers – you'd and manage to maintain seady out a consideration of the control court in the filectopiet in advanced studies of the control over the helicopiet in a work and studies of the control over the helicopiet in a work and studies of the control over the helicopiet in a work and studies.

# Stocking up

Like most wordstrategy games relaciding and fratelling will replenish your vehicle completely, almost as if you are given an extra life in Zeewelf. you are given a stock number and your fligate will store a number of missles, rockets or whatever for you, and once all your stock are used up that's it. You're on your own to use your stocks wisely.



**Binary Asylum** 

In-house

HD INSTALL

SUPPORTS

All Amigas

PRICE

£29.99



Landing requires extreme precision as the camel must be close for it to extend its 'cherry picker'. Your helicopter will then be replenished

Although the main idea behind Zeewolf is to control a helicopter you can link anto other vehicles via a comel. No, not the one with humps, but a tremate ink camel. You can link up to either a Cought tank. Kestler VICU, plans, Barracude bod, or the transport Helicopter. It move that between your theo vehicles whenever you with. However, you'll have to be careful because when you rin out of fuel, you will have to

break the link and leave because it will self destruct, purely because Zenith Research don't wantworking vehicles left in the hands of the apposing side.

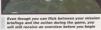
opposing side, namely Ecliptico. You start each mission with a co-

residencial compart of communition and by returning to the finglet, combet come will engage with your helicopter and you will be presented with a screen to refuel and relicod.

Your own team wit take eff ence the stock. There is a healthy tokice.

of weaponry at your disposal Before you begin your missions you will be given all the necessary briefings so you know where to go first and why and what you must do

A few field technicians still require evacuation. If you see any, transport them to our base.





There are many different missions contained in Zeewolf. None of them could stand accused of being overly difficult

when you get these. Before I began I was constantly thinking I'd completed all the objectives until I noticed there was a small but important building yet to be destroyed – while was quite annoying as my fuel gauge began to move towards the empty symbol. It really is a game that must be mastered carefully and

skilfully, as well as quickly.

Throughout your mission you will be able to

revert back to your mission briefings in a very clever way. For instance, in most games, when you flick from the action to a map screen the former tends to remain paused until you switch back. Not here, though, bec guse when you do flick to the map screen you will notice it is solit into quarters. The bottom right quarter contains all the nec-

Your own team will all be ready for take off once the mission begins the top left quarter will continue to show the action in a screen much smaller. Not only does this feature allow you

essary briefings and can be tog-

much smaller. Not only does this feature allow you to plan ahead while still battling, it also speeds up the game so you don't have to keep stopping and startling.



As you can see in the top left corner of the screen, the action will continue while you can still check out your mission objectives

6 The missions are reasonably challenging and if you're into war and guns and that, then Zeewolf is an excellent purchase 9

# Final word

Having mentioned at the beginning of the game that these games don't really appeal to me, I'm., and changing my mind. Hall You thought I was going to be converted into playing simulations at the time. No, how that Zeewall 2 lish" any good — it's actually on excellent game if you like this sort of thing. I'll gold by it out and review it — just don't make me take it.

The graphics are excellent and the odd viewpoint works remarkably well. The missions are reasonably challenging and if you're into war and guns and that, then Zeewolf is an excellent purchase - one that shouldn't be missed.



# SYSTEM



The graphics are slightly enhanced over the previous version



up cannons are pretty much the name of the game



allow you to perform vari

actions and movements

Reviewed by Andy Maddocl

completely forgot after playing the demo year ago is that is was so hard I couldn't even get of the first level. Lended up going back to the manual to follow the walkthrough to save me ploughing through the other pages, and still it didn't give me any clues as to what to do. managed to pick up some stuff and chuck it about a bif and

even blew things up. I think what lets it down is the control system. It's all a bit difficult you see. You're a spaceman and you have a letpack strapped up and down on the joy stick will 'thrust' you in that particular direction

Simple? Not when you're trying carefully to plant arenades using left and right on the joystick. In most cases you will end up banaing your head severely against the side of

the spaceship.

I suppose after a while you will get the hang of the control method, but it is very tricky to begin with. The worse thing I can say about Exile is that it's very very frustrating. If you should have a high stress level, I suggest you stick to something like Tetris or, better still, sleeping. There are so many little baddies who will take delight in annoving you, and to top it off - they don't even kill you! They'll happily knock you all over the shop without even having a purpose in

# Final word

I'm not saying Exile is a bad game, it's just that the frustration factor is far too high. The puzzles are excellent, testing your puzzle-solving ability as well as your actions, and it manages to sustain a high interest level. Most people will see the game as it is, but there are a select few who will find it more trouble than it's worth.

Although this is the A1200 version and it boasts enhanced AGA graphics. I still think it's lost some of its character, and although technically it's far superior, I still prefer the other

efore you say a word, I know and so does everybody else in the world that Exile has already been released. In fact a long time ago - it appeared as a demo on a coverdisk and I can remember playing it for absolutely ages and then I never recalled seeing the game in the shops. I

don't know why You can imagine my surprise when it arrived in the office just a few weeks ago. I was delighted at

to play years ago I promotly loaded up the two disks and while I waited I had a quick look at the manual, which wasn't really a good idea as it was packed full of keyboard short-

cuts and in-depth paragraphs about each weapon, monster, etc. I didn't really want to read it as I'd already played a demo thousands of times so I went straight into the game I won't explain the

plot completely because a) I don't want to spoil it long to print here. If I tell you some bad guy has nicked a special device needed to transport your ship from galaxy to galaxy and you need it back, then I think you'll get the aist

When I started moving my little sprite about the screen I have to admit to being slightly completely and instead of the top little spaceman in his little space suit as before, there was, in fact, a blonde-haired geezer who looked completely out of place. Never mind, I thought, at least the actual game still looks similar. What I



ugh the gameolay still rem the same, you can see here that the graphics have been enhanced.

6 There are so many little baddies who will take delight in annoying vou, and to top it off -

they don't even kill you!

PUBLISHER Audiogenic In-house DISKS

HD INSTALL

SUPPORTS A1200



6 violence in

game? -

makes vou

the world is

coming to

wonder what

Previewed by Tina Hackett games and

- they go

together like

chips, syrup



record straight with a new pinballer for the Amiga

Moss. Well, this time 21st Century want to set the which looks set to shine

Called Liquid Dezign (yes, correct spelling they are Swedish() they are a completely new development team who took the game to 21st Century as a very brave first attempt. 21st Century were impressed to say the least and well, here it is. Well, nearly. It was almost complete when we saw the preview version and a release date has been set for

Okay, it's yet another pinballer, so what does it have that is going to make it stand out from the countless others we've seen? Firstly, the graphics look of a pretty good standard but what immediately strikes is the use of the display panel. This has been used before for animations and the score, but in this case it forms an integral part of the game as well

From each of the four tables you can access sub-games which are stacked full of different animations. For example on the Pirate table, if you hit one of the lights you are made to walk the plank, and each time you fall to light a ramp, a rope snaps and you will fall into a shark

infested sea. Yes. sounds nice doesn't it? However, it promises to get a lot gorier (violence in a pinball game? - makes you wonder what the We're talking monsters that tear your face off, monkeys that hook the top of your head off, and stabbinas or

something - all with appropriate squelchy sound effects.

challenge Multi-ball has also been included and instea

of having to mess around yourself changing the screen from Hi- to Lo-res and back, it automatically does for you. Missions look to be that bit more interesting from the norm, too, which will provide a real challenge for even the



different and a theme runs through each

## most skilled players Insight

A1200 and looks set to be a need a ratinas certificate because of the violence included - it's cartoon in nature and not particularly to see what happens on the and the music moves along nicely with the pace of the game - with enough different tunes to keep even the most diverse musical tastes happy We look forward to seeing the





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All Amigas

Just look at those ames. How ridiculous can you possibly get? Not much much the look



n my mind the Kick Off series was always the best football game ever until Sensible Soccer kindly knocked it into second place. Kick Off 3 inevitably followed, as

sequels do, and to everybody's astonishment it was no longer the top viewed quick game - It had turned into a side-viewed, 'more realistic'



angle. When I loaded if up I was eager to see the changes made from Kick Off 3 in to Kick Off 3 - European Challenge. Am I confulsing you? You see, the Kick Off 3 that was released was fairly bug ridden and featured some ankward options. However, Kick Off 3 - European Challenge was released without them. Okay?

As the game loads up you will notice how many options it has which is a considerable advance from the first two games, instead of sticking with Steve Screech's Cryatol Palace, you now have an extensive selection from the European leagues to the international front, with the likes of England and Brazil. There is also an option to play with a two-butthored joystick or control pad, making those shots and passes easily distinguishable.

The actual game does look quite good, but something is very wrong and I just can't seem to put my finger on it. It could be the fact that



whomever you play just seems to whack the ball turn you will too. The passing system is very wrong - If you tend to give it a good smash upfield it will usually arrive at your striker's feet and you can whack it into the net, and a short pass is unbelievably inaccurate as it will almost always be intercepted by the opposition.

It's also pretty difficult to score as your star striker, whether it's Mark Hughes or Romario, will usually 'donkey it' right over the bar from a couple of vards out - most unrealistic, well maybe

If you do play this game for a long time you will get used to it, and believe me, it does get better. If you stick at it, it gets pretty involving. It's not that



The league table is pretty small, but all good things come in small packages. This came in a very large package, actually











Premier Manager has had much the same run of success as the Kick Off series. Premier Manager I was absolutely superb, containing all the football management areas and generally being one of the best in the market. Then followed Premier Manager 2 which, in my mind, was slightly better featuring updated teams. easier-to-use control method. Now there is Premier Manager 3 which is slightly disappointing. although it features some new options for you to make things easier and avoid those more menial tasks of the football

The main difference is the match sequences, Instead of featuring a scoreboard showing the action you actually get a mack-up of a ground shown iso-

metrically, and all 22 players will run about or 'flicker' as much as they can - a good idea on paper although in practice it didn't really work. All the teams have been dard, which is now out of date,

although there is an editor you can purchase if you're really that bothered. You can now add an assistant

ras

manager to take care of all the time consuming, less exciting jobs such as treating players, sponsorship boards, and training schedules which were especially boring after a few seaoff with some nicer presentation um, match reports and, of course, the match sequences.

One big problem I experienced was that on non-AGA machines the matches were



incredibly slow, even when the speed was at its fastest. The 'ultra' speed option has disanneared so there's no chance of instant results. I'm sure most people like to play slowly so they can watch their team's performance, but not

Overall, apart from the matches. Premier Manager 3 is incredibly detailed and realistic and for this to appear on a



The team select has been made easie by just selecting with the left mouse button and swapping with the right



Even the title logo has been redrawn in all its 3D glory making it, er... really good

# review

# 6 Soccer Stars '96 is probably

'96 is probably one of the best football compilations and at £34.99 it is excellent value for money

### FIFA International Soccer







The match screen is played isometrically allowing those screamers in the top corners to look even better



Before the start you get to toss the coin to win either kick off or the best direction

Of all the many hundreds of football games I've played across a wide variety of formats. I never really had any with to play this on the Amiga—I really had any with to play this on the Amiga—I had any the play that all and the play that got a teason apart from It just didn't appeal to me. From what I saw and heard, though, it did sound very slow and slightly unplayable.

I can remember playing this game on various console formats and it was very good – the isometric view worked pretty well, the only life-down being the speed which was a real disappointment. However, apart from that FIFA was a lot of fun to play.

You can only select from the International teams and unfortunately, they all have take names so you can't recreate any famous moments.

There is an extensive amount of options, as in

Kick Off 3, and the presentation was nothing short of perfect. The game, however, is a different story.

If you've offer a resistic game where you can think about you or othock and post in out to the wing, or hove a nice steady build up, then you you was forget he whole firm; this suffers the largest down the middle of the post until you takes the best sway and scores. One plus point, though is that nearly every god you score (if you cons) point god best plus point, though is that nearly every god you score the socon) point about point of the point you got a believance, of the ployme scoring lefet sentity.

As far as football games go, FIFA is a sure relegation candidate and is the white elephant of the compilation.

## On The Ball - League Edit



It's amazing that out of the entire game I've managed to capture a screen with two players who still play!

people home, or laze around the

swimming pool everyday and go



Look at that. Just look at that. I can't believe the quality of that stadium. I think it may be Doncaster's ground...



The final whistle has gone, and so has the player's spirits quite obviously! Where's your

The first version to come from developers Ascon was the World Final word Cup Edition which, in my mind. was the only game which mangged to incorporate all the mad-Soccer Stars '96 is probably ness of the international stage. one of the best football This featured a diary-like game whereby attending meetings is excellent value for money and press conferences all had and should be added to an effect on the outcome of any football fan's list of your popularity, so it was up to games. The entertainment you whether to train your team factor is beyond belief and everyday, give them afternoons as I mentioned before, this'll off, have one-to-one talks, send keep you out of everybody's

to the pub every night - it was all possible.

Now comes the League Edition featuring all the English teams and their respective cup competitions. Here is a warning, however - If you want the realism to be high, you'll have to edit all the teams to get them back up-to-date because there will be players at your club that have probably retired!

By far the best thing about On The Ball is the fact that it gives you an insight into the world of football from a manger's position, and you get to be involved in scandals, just like the real thing. Not only do the press watch your team, they also keep a keen eye on yours and your players' private lives. Then, if you are successful enough at the end of your domestic career, the International jobs will be made available.

On The Ball is by far the best game on the compilation and it'll keep you going for months and months. Also, when you've finished you've got three more games to play! It's not all bad!

way for forever and a day.

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development team hoping to make it big with this release fer a recent absence of new fighting games for the Amiga, a canadian fearm are answering the pleas of gamesplayers with a penchant for all that is gory. Called Capital Punishment, it already looks to be a

gamesployers with a penchant of all that is gony. Called Capital Purishment, it already looks to be a pretty impressive best-rem-up from some developers called Click Borm, who from part of a company called PxI Computers. It's already been on display at the World of Arniga Show in Toronto where it was warmly received by the public and VIPs alike.

Taking a rather gim and violent approach similar to that of Mortal Kombat, it certainly won't appease the Mary Whitehouses out there, but offering realistic combat and a satisfying range of moves, it will definitely appeal to

fans of the genre. The preview version simply

had a two-player one-fighter choice and one

THE SEWERS

Start off in the horrible depths of the sewers...

environment, but the full commer clal version will offer (as well as al the usual extras you'd expect) the option of fighting another playe over the telephone line via a modem. The fighter's moves will also be upgraded as you progress

also be uppracted as you progress. And unities some of the mois basic beat-em-ups, if has an intelligently designed scoring system which works like a "tup-of-worf When one player is hit his energy will go down, while the one who lounched the move's bar will go up. Oh, and apparently the best to (according to the developers is that if you're losina dereadfull).

you still get a chance to come back because spikes come out of sewers...

you catch your opponent unawares you can chuck him onto the spikes. Blodd will then ooze out from their impaled torso. Blodel, they

do warn you at the beginning that the game is

# what's the story

You play a muscle-bound warrior who is on a mission to defirrone the evil master of a huge costle. You start in the miserable depths of the castle and need to make your way to the very top. Unfortunately, the master knows you are there and intends to foil your plans by placing a guard on each floor.

Apart from your obvious warrior skills you are helped along by the spirit of your deceased mentor. The fights will test the limits of your endurance and should you lose, a fate worse than death awaits you - you will be destined to spend life in eternity with Bernard Manning after nine pints and a Vindaloo or something. Falling that, the master has the power to make you immortal and you will have to serve him for ever.





The fighters in action. Keep an eye on your stamina and energy bar

not recommended for children or those who are sensitive - oh, that's okay then!

You have a staming bar that you will need to keep an eye on too. A pink bar represents the head whereas blue represents the body, and according to which area gets hit, the stamina will fall on the corresponding bar. When this is depleted the warrior will fall into a state of fatigue and is left dangerously open to any move from their opponent. By quickly tapping on the joystick the player can reluvenate himself, but the only way to get the staming back properly is to stand still. Depending on the kind of move and which part

of the body is used, it will take gway different energy levels a block could come in useful as it will stop valuable energy

being zapped but As far as the technical bits ao.

have the-art' routine with

will

ntel-

go

will

will





warning that it's not for children or the sensitive



Ash, the lovely 'throw your opponent onto the spikes' move

flip. This can animate two large characters covering a combined area of over 30,000 pixels at a rate of 25 frames per second. A semi-transparent shadow adds effect and casts itself on the characters and the floors by following d actors' move ments at the rate of 25

frames per second. And there you have it. As previ ously mentioned. this preview is only from a twoplayer, one-charmo and it will see how things shape up.

There's also no indication of how many characters there will be in the final thing, but to match the likes of Mortal Kombat it's around King's Cross

going to need a fair few - all with special moves! Atmosphere is quite effective with a wide range of sound effects such as punches, screams of agony and crashes - a pumping soundtrack starts the proceedings and gets you into the

job involved hanging

Taking a rather grim and violent approach similar to that of Mortal Kombat. it certainly won't appease the Mary Whitehouses out there

Capital Punishment looks great with and groundshakes add to the realism and the characters look good from what we can see on the introduction screen (although, the guvs in the office warrior woman). I hope a few special moves will be incorporated for the full release to add variety to the usual array

of punches, kicks and throws, and that there is sufficient difference in what

There was also a slight problem in players disappearing off the screen which needs to be rectified as it slows things down a little. If it does deliver in these aspects then I see no reason why this won't be a brilliant beat-'em-up which will make a refreshing change after the many Doom games!



review (

This is a good effort which is a bargain for the price. It's rather hard though, so will keep you occupied for ages – providing you don't tear your hair out first

# **Penguins**

60%

hen a good puzzle game hits the shelves, it can sell by the bucket-load – look at the success of Lemmings for example. However, there are many others that just fall by the way-side, due mainly to lack at of ationality.

The next in the line of Amiga puzzlers is Penguins – a brove effort from a chap collide Scott Hayne who is dealing with the whole release by himself, from the development of the publishing. Although a commercial release, he is selling the game at a snip of a price of \$6.99, so to judge Penguins fairly, this should be kept in mind.

The concept behind it is that you play a fax or something which looks rather similar and you're mission is to guide some bewildered penguins safely through the levels. (Why this is a fax's jab is anyne's guise. What do you want for \$7 - real ism?). You have various obstacles to overcome, from conveyor belts to fitting lest, and you will need to negotiate platforms to get each penguin from one door to the eats.

But the penguins are not completely hebles. The one in bits can collect keys whilst the other one can club any baddes that stand in the way. However this means you'll call on have to trink about which penguin you want to move out fist. A map function makes life easier and allows you to stay stationary and screen and allows you to stay stationary and screen and solve you to stay stationary and screen and solve you have a movem shadon your only only will not you and you are to present station you and you for will be to press escape. Fortunately, a code is presented ofter each level because if you didn't sove if me.

convinced you'd be there for decades.

Both the graphics and sound work adequately for the type of game it is - you don't need fancy effects for a puzzler to work. The backgrounds are quite detailed, though, and it's nice to see that



A map function allows you to take a look around the level and plan your move

these change every so often. The sprites also look quite nice, although I think they may have benefited from being a little larger.

# Final word

Penguins hardly scores highly in the originality stakes but it does ofter 60 levels for only \$7 - and entertaining levels they are tool Each provides a different challenge and they become progressively harder as you go, introducing you to each obstacte gradually. However, even the beginning levels are ticky and the game won't

be for you if you don't nave thaush paleines.

This is a good effort which is a bargain for the price. It's rather hard though, so will keep you occupied for ages – providing you don't fear wair hair, and first. Popolick one up today! (Sorry!)



An animation sets off the proceedings



You will need to guide your penguins through various obstacles such as flame-jets



The little sprites are quite well animated but needed to be larger



Scott Hayne

DEVELOPER

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# review



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The size of the tables is absolutely huge. They are far bigger than anything seen before

# Along with all these presentational

features there are many additional ones which make the game more interesting,

# Reviewed by Andy Maddock

ver the last few months I have reviewed two or three Pinball games and to be honest, none of them have managed to sustain my interest at all - although I did give Thomas the Tank Engine's Pinball a good 90% or something, mainly because a) it was for kids and b) I thought the novelty effect

I'm not particularly a lover of pinball as I've mentioned countless times before. However, something different happened when I loaded Pinball Prelude. - either I wasn't fully conscious from the night before or I'd actually found a pinball game which. believe it or not. I actually liked.

There are three tables - which is less than the other games - and they're all based ground a certain theme, which is basically the whole concept of time. The 'Past' level features a prehistoric landscape with a huge dinosaur planted right in the middle. There are rock faces, dinosaur footprints



You can change the screen resolution to Hi-res, laced, etc. The best is still Lo-res

skulls and all things prehistoric. Instead of the boring flippers you get on everyday pinball tables, thes are actually the cro-magnon man's clubs. Not got clubs, you know, big wooden things.

Along with all these presentational feature there are many additional ones which make the game more interesting such as bonuses and extra balls, waterfall rides, rubberball, splat-the-ral bonfires and the Dino ball gobbler. Make of the what you will

The second table follows the 'time' theme an features the present day. Yep, all the advanced technology appears - mobile phones, computer football. This is actually my favourite table because when you bang the ball up to the top of the scre the ball will enter a small football stadium. On the pitch are three static players, and the ball w bounce around the pitch until it ends up in one of the goals, keeping going until the final whistle. The

There are loads of other bonuses like trying t park your car in a full car park, rolling the ball roun a satellite dish, camcorder's, and dialing number on a mobile phone. There really are too many mention, and they will all take a bit of finding at well - I played it for about half an hour and only

The third and final table is, of course, the future but it's more like a Star Wars table with graphics such as the carbonite chamber and Luke's greet light saber for flippers. Instead of the ball being sprung into play from the right as usual, it sits on the spring in the middle of the screen. This table also features all the multiballs, bonus balls, targets and other strange extras, but somehow I don't feel this comes close to the Past and Present tables.

# Final word

Overall, Pinball Prelude is a game that features outstanding graphics superb sound effects. It's a pity there are only three tables, but with data disks coming in the near future. this could well turn out to be one of the best pinball simulators money can buy.





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# Frank Nord hits his stride with the second part of his look at Workbench's menus



# Would you like to see the menu?

tour of Workbench's menus. our in-depth study of the Workbench menu before continuing on to varied aptions. Next month we will be before going on to discuss how to improve the productivity of the

# THAT ABOUT

Workbench's about requester can be made a lot more informative if you run a commodity like MultiCX This changes the data shown in the window from just giving the Kickstart and Workbench versions to giving not only that information but also what CPU you have and its status, the amount of memory in your machine and how much of it is being used, and gives you buttons to flush memory or reboot the machine as well as the standard OK button.

#### This menu and its items only become available if you have an active window open on the Workbench screen. If you don't then all the options here will be

New Drawer

New drawer - pretty self-explanatory this one. A new directory, complete with associated icon, will appear in the active window (you can't create a new drawer without an icon when using Workherch's meaus). A rename requester will then popup asking you for a new name for the drawer (which, if we're going to be picky, means that the New Drawer menu item really ought to have an ellipsis after it as it opens a requester window). The icon used for this new drawer will depend on your default drawer icon which is stored in ENV:sys as 'def drawer'. You can change this default icon in two ways. The first is by copying a new drawer icon into ENV:sys and renaming it as def\_drawer, and the second is to load your desired icon into konEdit and save it as default in the Project menu.

## Open Parent

Open parent - dead easy this one. All it does is open the parent of the current drawer's window.







About... - this handy menu item will bring up a window telling you what internal version of Workbench and Kickstart you are using. Basically, what this means is that instead of getting v2.04 for your Kickstart, you would end up with v37.175 and so on. This information is mainly of use when giving people the configuration of your machine

Quit - this is one of the most completely pointless items in Workbench's menus. If you choose this menu item you will probably get a message saying that Workbench cannot quit because there are one or more Warkbench-launched programs running this includes commodities), and if you don't get this, then your Warkbench will disappear leaving an empty menu bar. There is no way to restart your Amiga from this, so the only thing you can do is reset the machine which you could have done anyway to save yourself the trouble of closing down all your programs, etc.

#### THE WINDOW MENU

Close

Close - closes the current window. Even easier

then the requires definition Update

Update - this item refreshes the contents of the active window. This can come in handy when you are using a program like DOpus to move files around or extract archives and you already have the appropriate windows open on Workbench. Because Workbench's file notification isn't all it might be, quite often you will find that although you have filled the RAM disk with items in DOpus, it's window on Workbeach still appears empty. Using update will save you from having to close the window down and re-open it.

Select Contents A Select contents - selects all the files in the active

drawer. Clean Up

Clean up - one of the best additions to Workbench 3's menus is the keyboard shortcut assigned to this item. Previously you would need to use the menus to clean up untidy windows. All the same, it would be good if Workbench was a little cleverer about how it tidies up the active window

Window

Snapshot - this is a sub-menu consisting of two items - window and all. These two options allow you to respectively snapshot the position and size of the active window and the positions of all the icons in the window and the window itself. If you use the backdrop item in the Workbench menu explained last month then you should use the Snapshot window item to make sure that Workbench comes up in this style

> Only Icons ✓ All Files

Show - again, a sub-menu with two items. These dec with what the directory window on Workbench will show - either just the files that have icons with the 'only icons' option, or every single file with the 'all files' item

View by - This one deter mines how the icons will be dis played in a directory window, whether by icon or as text

Icon Name Date Size

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Paul Overaa outlines an unusual use for the DOS segment loading routines



# Building blocks

mentioned last month that one possible additional use of the LoadSeg() and UnloadSeg() DOS routines is for loading and unloading blocks of data such as graphic images. Needless to say, for this to be done the images themselves need to be provided as conventional AmigaDOS-style load files and, since most graphics start life as IFF files, this means that a certain amount of preliminary conversion work is needed in order to get the graphics into the right form.

The first step then would be to use, say, Deluxe Paint to create the required graphics object and store it as a picture file. By switching on Deluxe Paint's X/Y co-ordinate display a user can easily create objects of a given size so if, say, a graphic image 60 pixels by 80 pixels is needed then a suitable background area can be marked out, the images can be drawn, and the brush facility used to save that particular area of the display as on IFF file

Intuition's image drawing is based on a standardised block of data known as an Image



Morten Eriksen's Shareware PicCon program is one of a number of utilities that can generate asse image structure data statements from an IFF picture file

0,0 ;XY origin relative to container Tople
253,37 ; Image width and height in pixels
2
ImageData1 ;pointer to ImageData
\$0003,\$0000 ;PlanePick and PlaneOnOff
0 pnext Image structure
\$11112,11112,11112,11112,11112,11112,11112,11112,111112
\$1117,51117,51117,51117,51117,51117,51117,51117
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## LOADING

Once an image is in AmigaDOS loadable form it is quite a simple matter to read into the program using LoadSeg()and display it using the Intuition DrawImage() function. Given a valid filename, a typical code fragment for doing this would look something like that shown in listing 2. As always, however, to produce a runable example quite a lot of additional work needs to be done.

A window needs to be opened and, if we want to display a user-specified image file, rather than just use a hard coded filename, then that name has to be collected and a proper file path/name built up. I've opted for an Intuition-based Workbench runable example that allows the user to select and display image files using the asl requester, and next month I'll be giving you the complete source and explaining how

structure, and this is used primarily in conjunc tion with an Intuition library routine called Drawlmagell. So, having produced an IFF picture file it then needs to be converted into data statements which represent the equivalent Intuition Image structure. This can be done using one of the many dedicated public domain converter programs you'll find around or, alternatively, by using a program, such as Inovatronic's Power Windows, that is able to generate assembly language-style source data statements for

images loaded into godgets (see listing 1). When you are including graphics data in this way it must, of course, end up in chip memory otherwise the Amiga's custom chips (namely the blitter) will not be able to access it. This means at this point in the proceedings it will be necessary to edit the image structure file in order to add a chip memory section directive. There is, incidentally, a minor difference between the section syntax used by Devpac and that used by Charlie Gibb's A68k assembler. With Devpor chip

memory is specified using this sort of statement

SECTION IMAGE, DATA C

where DATA C is a keyword indicating chip memory and IMAGE just an arbitrary section name. Charlie Gibb's A68k assembler requires a slightly different section syntax and the source code line shown above, which would of course need to be placed just before the graphics data itself, must be changed to:

#### SECTION IMAGE, DATA, CHIP

The Aó8k assembler does, of course, also require that source files contain an explicit END statement, so A68k users will additionally need to include such end markers in their image files. Once these modifications have been made the image structure file can be assembled and passed through the linker to create a load module that the LoadSeg() routine will accept.

Intuition's high-level Image drawing routine Orawinoge(rastport, image, Left\_offset, top\_offset); aD a1 d0 d1 pointer to an Image structure left\_offset - a general left offset which will be used with all of the linked leace top\_offset a general top offset which will be used with all of the linked Image structures of a particular Drawlmage() call.

Listing 1: Typical output produced by an IFF Picture c- lmage Data converter program	move.l CallSTS move.l beq.s isl.l addq.l move.l	#filename, dl toadleg, DOSBase dl,seglist_0 .error \$2,40 \$4,91 vindoe_g,s0 xd_Pert(a0),s0 #50,41 #rawlame,_latviticolas #rawlame,_latviticolas	preserve for unloading would indicate bad los al points to image window's rastport arbitrary position arbitrary position
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More handy hints on ARexx script tracina with the Rexx meister -Paul Overrag

Rg



# Without a trace?

ast month I mentioned that ARexx supports an 'interactive' tracing mode which allows the programmer to step through a program, and interact with it whilst it is being traced. Depending on the trace options selected, of data will be shown and it is, in fact,

_	running	01 00	-	-	anomi	
•		trace :	script	ine		

command or syntax errors expression or template parse result

value assigned to a place holder during parsing >C> expansion of a compound variable name

>F>

202 result of a dyadic (two operand) operation >P> result of a prefix operation

>V> value of a variable >L> a label fiteral constant value

Table 1: Symbols used to identify ARexx trace items

possible to look at the contents of variables, re execute clauses, and even enter additional instructions. Because under normal circumstances all trace output would be interleaved with normal program output, the best idea when tracing the execution of a script is to open the ARexx 'global tracing console' and this is done simply by

opening a Shell window and typing TCO! It is possible to add trace instructions directly into the script that you wish to trace, but ARexx also maintains an 'external tracing flag' that can be used to force programs into interactive tracing made. If, in fact, you type TS at the Shell window after opening the global tracing console, the TS (Trace Set) utility will be executed and this will cause all subsequently executed scripts to enter interactive tracing made automatically. The tracing flag, incidentally, can be cleared by typing TE (Trace End) and ARexx's global tracing console can be closed by typing TCC (Trace Console

Interactive tracing prompts the user for input with



a '>+>' code and at these points you can either press the return key to skip to the new breakpoint, press '=' to re-execute the previous clause, or type some executable ARexx statement. Table 1 shows the code symbols which ARexx uses to identify the types of items it displays in the trace.

#### TYPICAL TRACE

There's no doubt at all that the best way to get to arips with ARexx's tracing facilities is to experiment with them using your own scripts, but to get you started, here's what happens in a typical interactive tracing session whilst examining this do-end loop:

## Example.rexx

If you execute the above program this is the sort of information that will appear at the trace console window:

The interactive trace is displaying line positions and clause details as it executes the first iteration of the program loop. ARexx is now waiting for further instructions. Pressing return lets ARexx know that it should continue running up to the next breakpoint, and on doing this the trace display continues with:

If at this point we now try typing:

58V 1

in response to the >+> prompt we will see that ARexx prints 2 at the program's normal output window. Now, this of course is the current value of i being used in the program, but if we this display appear:

ARexx would have set the i value to 49 and then duly incremented it at the end of the loop. The result? The program terminates after one more iteration because the value of i then becomes greater than the required loop exit value (ie 50).

If, instead of changing the value of i like this, we had typed another instruction, this too would have been executed and this of course can be used to set new trace display options.

To turn off the tracing and let the loop run as

or its single letter equivalent:

TRACE option) can be used to alternately toggle the tracing mode from normal to interactive and back again. Hence the instruction... trace ? errors (or its abbreviated form trace ? e) would, if the current mode was set to normal tracing, switch to error tracing in interactive mode. If the current mode was interactive then the same instruction would switch to error tracing in non-interactive (ie normal) mode.

A I toggle character can be used in a similar fashion to prevent ARexx from sending commands to external hosts or to re-enable the command communications facility. This is particularly useful when, say, you wish to test ADDRESS COMMAND instructions within programs that may be specifying potentially danFREE FREE GAMES CHEATS 1.4 EMULATOR UNDERGROUND LIBRARY DISK POST & PACK ON ALL ORDERS EIZ DATABASES Z DEK 1121 REM-DATES 1267 DOBASE NOT 1,3 All Games are on 1 disk and run on all Amigas unless otherwise stated PICK AN FXTRA DISK FOR FREE WITH EVERY EIGHT DISKS YOU PURCHASE UNDERGROUND P.D., 54 CARMANIA CLOSE, SHOEBURYNESS, ESSEX SS3 9YZ. Tel: 01702 29588 SECTIONALY !

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## Phil South contemplates the last twelve months on the Internet



## year in the Web

Y ou may recall about a year or so ago I wrote a piece in this column about the Internet saying how the Web was a good idea but it was going to be oversubscribed in a very short time? Well it's now 1996, and sure enough the World Wide Web has become, for most people, the Internet, or at least the bit of it they see.

Web browsers have all but replaced the other client software that you and I use to access the Internet, and the proliferation of Web sites is such that by the end of 1996 we can expect to see millions of sites rather than thousands or hundreds of thousands. It's confidently predicted by some that by the turn of the century there will be one Web site per 20:30 people on Earth. So what does this mean in real terms?

For a start it means that getting onto the Web and navigating around will get harder as the year aces along, and you will have to wait longer and longer for your chosen Web site to come up onto your screen as the load on the network increases. Many major sites are increasing the amount of nodes and lines and the bandwidth of those lines, but even with expansion and increases in speed the



Web brown everyones usi



browner everyor

load will continue to grow and the capacity to keep up will get smaller. In effect it will become unusable unless something happens

It may be, and I offer this as one likely scenario, that the demand for the Web will fall off as the less dedicated Net spiders give up once the load goes up to unfeasible levels. This will, of course, reduce the load and therefore the usability of the Web will

This is the boom and bust model, which has several recent precedents. Skateboarding in the '70s Kung Fu, also a '70's thing, and home computing magazines are examples I can think of. In the

beginning there is a huge explosion of users and the demand for the thing grows and grows at a logarith mic rate, a parabola of users shooting up the usage graph like a little rocket, and then just like a rocket, the usage dies off as the dabblers and trendies fall by the wayside. Eventually, the magazines support-

ing the hobby die off as the demand falls, and then the usage of the thing, whatever it might be, falls back to usable levels This is what happened with skateboarding and

Kung Fu 20 years ago, and possibly will happen soon with the Internet and, of course, the other two areat fads of the mid '90s, those silly Pogs and allboy groups who do synchronised dancing which looks as though they are trying to disladge some dog mess from their shoes It's possible, and indeed from a habbyist's point

of view desirable, that this will happen, although it's by no means certain. What will happen if demand for the Internet grows, like that for TV (that other great thing which everyone said would never catch on), and we have an ever escalating amount of people trying to get on. If you think it's hard to get on the Internet now, wait till the load doubles. As it is, you can't access any US sites with any rapidity after about 3nm in the afternoon, so evening Web surfing is out of the question for the most part, unless you want to spend at least 30 minutes of every hour waiting while some bozo's 900k GIF file creeps/loads onto your screen. It was never a fast process and if the worst comes to the worst it will become impossible. Unless of course something con-

MORE, BIGGER. FASTER

For the Internet to work in any meaningful way after this year, everything is going to have to go up an order of magnitude. Modems are going to have to get faster, phone lines are going to have to get fatter and cheaper, and the backbone of the Internet is going to have to be accessed faster and more fluidly by the ISPs, the people who are affering what it laughinaly called a service these days.

The WWW was always too slow and a rich boy's toy, and it was always under too much load and waiting for faster technology. The only kind of people who can access big graphically-oriented sites in the US are people with a direct connection, i.e. businesses, people who work for Internet companies or magazines, people with more money than sense, and not the unemployed, the homeless and people on low wages, who can't do this and will possibly think that they are missing out on something very important. I think that the WWW will become very impor-

tant, but at the moment it is still about 65 per cent advertising puff, and about 5 per cent silly home pages with pictures which are too large to load. What the WWW needs is a big shot of technology in the arm, and quick, before it becomes unusable to those who like it and want it to grow sensibly into a new communications and broadcast medium which can compete on a level playing field with TV, radio, video games and movies.

## THE EMC PHASE 2 REVIEWS



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The Amiga Format/Shopper Phase 2 reviews results were not available at the time we went to press.

The EMC Phase 3 reviews will follow soon!



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Pruit, World Maps (of every country on Earth'), Ships, Vegete Arrows & Stars, Borders, Buildings, Clipert, Office, OtherShaff, Photo, Transport uff, Paople, Plants, Sports, TheArts, Transport, Xre



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## Frank Nord continues his look at what makes a good layout for an



# The art of advertising

ast month I showed the basics of laying out a single item, single page, full colour advert, but a lot of potential advertisers won't have the luxury of full colour, full page advertising. There are several ways to approach a limited budget. The first is to reduce the size of the advert, the second is to lose the colour (or at least most of it).

If you are designing your add for a quarter popul, proof, refer from a full page, flees or a different consideration to be node. For a tost you won't were be called put if the control of lest first we used in the good page design, a will need to be clearly and the control of the control of the control of and the control of the control of the control of control of the control of the control of property of the control of the control of control of the control of the control of control of the control of the control of contro

You're not simply going to be able to shrink your full page layout to fit into a quarter page either. This would almost certainly mean that your text will be too small to see and your contact numbers wouldn't stand out as well as they might either. So what are we going to do? Our best bet is not necessarily to ditch the picture and fill the box with text - unless, of course, the picture is particularly baring - but we do have to get across the most important points of our product and our sales speak has to be even more concentrated. A big price figure is all you need if your product is familiar to most people, but if it isn't then a bulleted list of USPs Junique selling points) and comments from reviewers can be very effective, as long as it's short. So pick out the most important features and work out how to explain them succinctly, but in as few words as

It's very tricky for me to give you examples of how to do this as your circumstances could be

## How Much?

If you are interested in advertising in an Amiga magazine you will seed to get in contect with the dovertising department of whethere magazine you choose and sait them to are and you on model good, which include details like the magazine you was to provide the properties of the control of t

2



Inspired by Neville Brody? But, of course....

completely different from what I am suggesting, but there are always easy rules to follow with regard to contracting lesst. Things like Rowery adjectives and adverbs, stuff in brackets and introductions can always go. What act and ign are your product's advantages, ordering information and price.

If all fact arounds too much like hard work, your might worth to relate the amount of calout you. of. This is a far easier for floors others that how the control of the control of the control of the classical fact morth, because you are greatly much restricted to a list formet without pattern growpe, that single colour or part of coor advantage a range product in a last harder since if given the impression plants are bringle, if all all possible, of an all possible that the control of the control of the plants are bringle, if all all possible or pattern work for you with greycoid displantations and WOSE (several for the Wish Co Body) helping to give the impression from a range good color was a design decision to your part rather than a

For inspiration, by to find some of the work of New Body of New Bo

EVERYONE'S A WINNER...

competition we ran last year to win a copy of one of EMComputergraphic's excellent CDs dedicated to DP. The lackly the winners or as follows: Barry Cutler from Beckerham, Kert RF Baird from Edinburgh

8 Baird from Edinburgh

5 Robertson From Middlesborough

Steve Taylor from East Dereham, Norfolk

so should all contact EM Computergraphic on 1255) 431389 to tell them whether you want ase 1, 2 or 3.

## PAGESTREAM PROGRESS

Still nothing concrete this month, but Softlogik have sent us a press release stating that version 3.0i will work with CyberGraphics-equipped graphics cards becoming the Amigar's first, non-graphics oriented (well, you know what I mean), application to work in 24-bit colour.

TOE VARK CUI TOOLS 9 CONTROL VARK CUI TOOLS 9

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Hard Drive Needed ORDER INFO:  Phil South looks into the options for creating interesting multimedia with Amos



# Using the buzzword

ultimedia is a bit of a buzzword with most propie of the moment, and his most propie of the moment, and his most propied and the propied and the most propied and the propied and the

If you have an IF animation you can use the double functionally of AMOS PRO 1 gain you animation, in your programs. These are, of course, anotify for use a game introb, but if a possible to make multimedia programs which use this facility langise an Anne program which has been compiled and in mastered onto a CD. Imagine activate on the program which that been compiled and in mastered onto a CD. Imagine activities onto a picture and suidely if I burn in to life as an animation like, for example, an animation from Light/Wew or something similar to but.

Making Amos use lFFs is easy. In case you've never done it, here's how it's done. Having first made your IFF file, using Dpaint or LightWave, Real3D or whatever, you can play it straight to a specified screen number, like so:

tie 'big.atie' To 0

This plays an animation called "big anim" to screen 0. This is the most direct method of playing an

### THER IDEAS

Once you've mastered playing back animations you could try to sort out how to play back a nearmition in synt with the animation, or if not precisely in synt then of least at the same time. This could be a nearmition or partners a place of a longer piece of music and to keep the sample size down.] To play back and IT sample while your animation is place first load the sample into a bank (usually bank 5) using the sample loader supplied with Almacs, Oney your semple is in

### San Play 1

which plays back the first sample in the sample bank. As another scenario, which makes a let more sense for multimedia, you could play a sample of a voice narration, telling everyone what a brilliant animator you are, plus have the most supplied by AKOO file played back using the track Play command. This means you would have graphics, the play of the play of the play of the Track Play command. This mean you would have graphics, which manks I'll be play plays anone more specific scamples for you, See you them.

part



onimation in Amos and it simply takes the animation you specify and plays it. You can do this:

Iff Ania "big.ania" To 0.5

to make it play a specified amount of times, which in this case is five times. You can, if you like, write a simple IFF Anim player routine using this

### Iff Anim FaelS("\*\*") To 0,10

as the core of the code. You could put this into a nice border or even add your own play and rewind buttors, which we lig arist in a minter. Now, there are a number of ways you can manipulate a file to make it play back in certain specified ways. You must first load the anim file into a bank, using the OPEN IN command:

## Open In 1,"big.ania"

then use the FRAME LOAD command to load the frames to a memory bank:

### Inframe Load (1 To 10,1000)

Now you have all the frames in the animation (anything up to 1000 frames) in bank 10, and you also have a note of how many frames were loaded in the variable Z. (This is useful for knowing how many frames to play back.] Now you can play back the frames from a memory bank, using the Frame Play command:

> F=frame Play (10,1,0) bouble Buffer f=frame Play(f,1)

Notice that Deable Buffering is not articled on connectionally only one to activate the Notice year. Note you be not activate the Note you have fall control over fine finance, and you can make fines they forward and blookwards on the Notice of the Notice

IMPORTANT: You have to use flags in your program [as discussed in a recent edition of this column] to ensure their only the first click is read when you click on one of these control buttons. Set the flags to I when the button has been clicked so any subsequent present of the button are read. This could cause this problems in your program if you during the flags to the button are treat. This could cause this problems in your program if you during the flags of the button are treated. This could cause this problems in your program if you during the flags of the button of the flags of the button of the flags of the flags of the previous cause of the flags of the property cause of the flags of the flags of the problems of the flags of the f





Paul Overaa provides an overview of the current Amiga Midi sequencing scene...



# Do it in sequence

rue Midi sequencer, as most of you will doubless know of you will doubless know edisigned primorily to record, edit and pley back Midi and pley back Midi and pley back Midi and pley back Midi and pley out to use Amigin internal sounds as well the real seftware, emphasis is primarily on recording from, and play back to Midi equipment. What sart of hocke is there as for a real Amigin Sequencer you will be set to the set of the

Sequencer One Plus - Software Technology's Sequencer One Plus is one of the few UK developed sequencers that has found a sale niche for itself amidst the rather awasome heavyweight Sotteside competition. Sequencer One Plus offers off the basis furnions needed for Mid sequencing and it supports the use of internal sounds as well as Mid oriented outout.

Two editors are ovalable including a high-level Bor Editor which shows the arrangement of the song, graphically indicating for each track the baswhich contain data. The main use of this editor is for viewing and creating arrangements and conying out block editing operations. More detailed editing is performed using the Step Editor which provides a plann of blyee dislock.

for a middle range sequence, Sequence Delta offers and middle range sequence, Sequence Delta (podes, cithough it does, of course, look mony of the refine meets found with haveyweight Amig podicipes. You'll find no homory generators, soor parintle, or the more exotine cytion is like SMPTE or Midl Time. Code support, but it is nevertheless salved left from ant resportisational use and it is reported. Software fachnology have essentially concentrated on certaing and supporting of whorknow's sequence from critical positions.



Sequencer One Plus - a well supported entry level sequencer

Music X-Notator X - Music X has always been a powerful sequencer but when MusicAl version 2 came along, a number of facilities including Alexa control and support for multiple serial port card use were added. The most important addition, however, was the inclusion of a very useful sacrenation program called Notator X which allows you to write additional post musical programs.

Both Music X and Notator-X, incidentally, can run as standalone programs, but if your Amiga has more than 1.5 meg of memory then you'll be able to run both programs together and move music data between them. You can, incidentally, also use NotatorX in conjunction with any other sequencer package that supports Midi file import/export.



Notator-X has helped win a lot of support for the new Music-X

Dr Ts KCS – the current Dr Ts offering, income on the KCS lead II provides the KCS sequence, PVG, a departed selection of the CS lead of the CS sequence, PVG, a lead of the CS lead of th

some investing note and controver spatting technists.

Other goodless include remote Midls control of start/stop/record functions, support for the Phanton SMPE interface, controller change, time reversol, recharactering, auto-correction, real-time and step-time editing, invention and the oblity to protect drum parts from transposition. In short there's liftle you can't do!

Bars & Pipes Professional – Blue Ribbon Soundwork's Bars & Pipes Professional is as much a creative tool as a conventional sequence. There are very powerful song parameter options which let you define lyinc lines, chards seyn/scales, rhyfm data, global dynamics and so on. There's automated mising, all the usual staff like Mod-Big. Syees and internal



sounds support, timeline scoring (for video/Han work) and SMPTE facilities. In short, Bars & Pipes Pro is a brilliant piace of software which, in practice, suffers from only one real tamp—the amount of memory needed to run it. A realistic set up for serious work would be a fast machine with around 2-4 megs of memory along with a hord ridle.

### OVERALL

Software Technology's Sequencer One Plus is a useful, and very reasonably priced entry-level product which now has quite a large user base. Both Dr T's KCS and Blue Ribbon Soundwork's BarsAPipes sequencers, however, are the fravourites amongst most professional Amiga musicians, and both Dr T and Blue Ribbon Soundwork's do, incidentally, also offer dozens of other Amiga music pask.

librarians etc.

Music-X has always been popular but of late there has been renewed interest in this package, specifically because of the Notator-X acore editing facilities now provided. Of late it's also been the subject of a substantial price cut and is now very good value for money.

## Bottom

Product:	Dr T's KCS Level II sequencer
Price:	992
Supplier:	Millenium Music
Phone:	Tel: 0115 955 2200
Product:	Music X v2 + Nototor X
Price:	£49.95
Supplier:	Emerald Creative Technology
Phone:	0181-715 8866
Product:	Bars & Pipes Professional
Price:	£199.95
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Phone:	0181-715 8866
Product:	Sequencer One Plus
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n last month's article I explained in detail the principles of the X, Y and Z axis and how they can allow you to manipulate and animate brushes with ease and with spectacular results. I also touched upon how you can use Move to actually mimic camera pans and

Camera pans and zooms are important in any animation just as they are in film, and you can learn a useful techniques by studying the latter. Implementing different camera angles is an excellent way of speeding up or slowing down the action and conveying emotion in what is basically a 2D art form. However, camera angles have a more basic appeal and that is to keep the audi-

ence interested in what is actually happening Imagine a two hour movie with only one scene and with a single camera angle - you would be



as possible by adding different camera angles to ivey pace, mood and emotion

If you can understand the texture of the object you are designing, adding light ces and shadows to it shouldn't be a problem. The alien portrait shown here can be seen from its early beginnings to the

Adding so much texture detail would have been a slow and laborious task if performed by hand, but using the Brighten and Darken effects the process was made infinitely quicker. Using the filled line tool I simply drew in the shapes which were then automatically brightened or darkened as I desired. Switching on anti-aliasing also ensured that the rest of the image

bored after the first five minutes. Obviously, your animations are not going to run to two hours which is why it is even more important to utilise different camera angles - trying to make a 30-second animation exciting to an audience is certainly the most difficult aspect of computer generated animation

The knowledge required to use camera angles correctly can only come from continued experimentation, so if you are just starting out in computer animation use movies as a source for inspiration. If it helps, try and make notes as to the type of scene the camera angle is linked to. Not only will you build a useful collection of comera angles but also a reference as to which one should be used when and where



ses and shadows at the storyboard

### LIGHT RE where the light is coming from you will have a

When creating animations in a 3D program such as LightWave or Imagine the designer can simply add light by including light objects in his scene. The rendering process takes care of casting light and shadow allowing the designer more time to concentrate more on objects.

mations in a 2D paint package and light and shadow can often make or break your creation. recreate the kind of realism expected from a 3D lights more stark and shadows much harder.

The first thing to do is make a note of the different lights required on your storyboards. You can then sketch the general direction of each light and note where it falls in relation to the other objects in your scene. By understanding

pretty good idea where the shadows will be cast. For a static light the shadow should be fairly easy to place, but if the light is animated in any way the shadow is going to change in relation to the movement of the light and any structures it passes over.

A simple way of adding light and shadow is to use the Brighten and Darken effects. For a light cast on the floor you could simply select a filled ellipse with the Brighten effect turned which you can then draw over the floor where the light falls. You could even switch antialiasing on in order to smooth out the edges of the cast light or shadow. If you need more control over the shape of your cast light or shadow you can use the filled line tool instead.

A quick way of drawing shadows is to use

the Shear tool which is normally located in the Brush section of your paint package, Using castings using the original object as a template. the shadow as a brush and flip it in the Y axis (the direction you flip the brush is dependant on the position and direction of the lightsource - in this example behind and above).

Using the Shear X option you should shear the light is coming from. With Darken enabled from the brush effects you can then paste the brush down and you should end up with an instant, and accurate, shadow. You may also need to alter the width and height of the shadow in relation to the height of the Paul Austin delivers a quick guide to getting the best from LightWave's funkiest feature



## Metaform for the masses

elievable organic forms have been the holy grail of 3D design for years.

Printives with hier blocky angular forms are efficient and effective for the majority of jobs, but also, precious few things conform to such a rigid design in the redworld.

Enter Metaform, the 3D designers dream tool. With he aid of this 3D cure, all soft sculpted forms one no more from a couple of clicks away. No more struggling with spline curves, no more compromise, this is a seemingly efforcies solution for a multitude of modelling nightmores, Unfortunately, like most paraceous, there's on inevibble downside.

For the power players with 060s and unlimited RAM, metaform's seemingly unavoidable side effect is hardly noticeable. However, for mere montals the multitude of points and polygons that the process generates can be a real headache.

Fortunately, there is a ray of hope in an easyloseallow solution. Due to the simplicity of just hitting the metaform betton to obtain instant results, it's incredibly templing to just five and farget. However, if you can contain your enthusiasm and filink about what's required from the metaform effect before you hit the button, you could sore yourself handreds if not



amoothing benefits that adding the odd slice can have to metaformed right angles. Basic stuff, but nevertheless essential for those of us on a budget when it comes to available RAM

flourands of RAW-hungry polygons. A classic example of this is the new ubiquitous light/Ware round corner route. Frames for its part in the sucture example scene, this apparently simple object remained o "how did they do facil" modelling enyetry until the official carried of metaform in version 3.5.

In our example image, the cube on the left boasts 386 polygons whilst its near identical twin on the

models recipit in with jar 218. However, went his seems asthmate comprosed to the cube on the right which gas the jub down with just 164. Look prefly wishing that jub down with just 164. Look prefly seems to the property of the property of the property of the property of the comprosing to studed 464 of the which we the pastine seems required and to be which we then pastine seems a single method may be which employed 200 seconds additioned deliting and which employed 200 seconds additioned deliting and terminal pulying more within the word quality of the corners provided to the corners provided to the corners provided to the corners provided to the corner of the corn



From left to right: the traditional polygon-hungry approach to metaform, followed by a combination of fewer initial points plus some polygon repositioning. Lastly, a repeat of the central cube with unnecessary polygons removed completely

## SMOOTH ANGLES

Essentially, metaform makes its smoothing calculalians based on the proximity of polygous and their relative angles: the closer the grouping the more rounded that particular part of the model becomes. As a result, it makes sense to use the minimum number of points and simply ensure that the area you want affected the most has the highest proportion of polygons. Simply moving points and polygons isn't always.

Simply moving points and polygons isn't always an option because it could easily destroy the over all shape you require, so a more precise method is called for. The simplest solution is to select the presmoothing and metaform these separately. Sometimes this alone will do the job reasonably efficiently. However, simply selecting existing groups

doesn't always deliver the goods because the number and shape of polygons present simply doesn't deliver the desired results. Under such conditions, a technique feroured by the pros is to use a combination of a flat plain and LightWore's slice functions to introduce more detail in the form of additional polygons into a selected area, there by enhancing the smoothing affect of the meetform pass:



Our three examples as seen in modeller. As you can see a few seconds spent on planning dragging and deleting unnecessary polypons can really pay off

Gary Whiteley explains the principles behind differing TV systems



# The big

ave you ever wondered why Britain and America have different TV systems, or why SVHS equipment has different connectors to VHS equipment five, all down to standard and formats, cunning plans to squeeze more into a pint pot and, of course, the need for constant improvement and more sales.

Let's start with video standards, of which there are three predominant video ones in use around the world - PAL, NTSC and SECAM. Each is slightly different from the others and hence tapes recorded using one standard cannot be played back in another without the use of standards converters. For professional quality film and tape transfers these machines are still very expensive, but nowadays it is possible to buy a relatively cheap multi-standard VHS VCR which can play back any tape from anywhere in the world using just a single machine. Perhaps as technology advances there will be just one video standard for the whole world, though it is perhaps unlikely in the foreseeable future, given the sheer investment required to convert everyone's existing equipment over.

### STANDARDS

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The first of three big standards in NTSC. Plastoned Television Standards Committee, as used in the USA, Jopon, Korea, Carodo, Mexico and other USA, Jopon, Korea, Carodo, Mexico and other big out of South America, and the Philippenel, NTSC. rate of 30 Temes of 252 times per second and its present of the Control of South South Control of South Co

### THE FRENCH OPTION

The second popular standard in SECAM (which stands for SEquential Couleve, Athenical), which was developed by the French from 1939 enswerds as an alternative to the them 1838 enswerds as an alternative to the them 1838 enswerds as an alternative to the them 1838 enswerds and explored to the standard of many French colonies (current and ex-), Sendi Arabia, Iran, Iran, Engyl, Rassia and some of the other ac-Communitia bec countries. Servingly enough, though, much SECAM material is naturally the final transmissions stoga, Unitine must of the rest of Europe, who were trying to agree an a single IV standard, Francis decided that it would stake with SECAM on matterial as alternative PAL system was adapted by must of her neighbouring countries.



flickery until their eyes and brains become accustomed to PAL's lower frame rate.

NTSC evolved from an orleady existing monocitome system and wors the first independ standard for calour television broadcasting, coming into regular use in 1953. As on historical sade, it is a said that file hasts had belie foot vil contens and video projection in use for the 1936 Olympic games, though this is had to verily, both for political reasons and because German companies such a Teledinken hydrower of the foother of PAL IV development) are still relactant to odmit that they middly how the control of the part of the part of the part of middly had been such as the part of the part of the part of middly part of the part of the part of the part of the part of middly part of the part of the part of the part of the part of part of the part of t

### UK IMPORTANCE

The fined istandard, and the most important one for ou, is PAI, Phose Alternate Unit) and is the one used in the U.C. a well on such of Europe, see and current U.K. dependencies and colonies, including Australia, New Zeoland, South Alfrida, related, China and a rumber of Alfrican and Arab states. Use SCAMP, PAI man or 25 frames of 625 lines per second and, like SECAM and NTSC, this time/line combination is derived an od wiston of the national domestic mains electricity frequency. SORMs per SCAM, 60°TE for NTSCI.

Officiaries, ou with all standards there are exceptions. For instance, Brazil uses the PAL system, but with only 252 lines and of offictt PERAMI, whilst Cubb, Holis and French Goyanon have SECAM, but with 252 lines. There may close be inition differences between the sound comyring side of some PAL systems. So, if you have a tape of beaution IV and yout finish you can play it book on a standard PAL VCR, you'd be mislation. Hearth this he bard way, compleg tage of the way book from Rio only to find an that all could get and all votes the did that is where standards conventes come in, and in the in where standards conventes come in, and in promisite to market from one video many problems. To securion For instance, when conventing from NISC (DD finance) per second, 525 linely to PAR (25 finance) second, 625 linely life fine froms have to be let out of 100 lines per from pagined. Digital explanation of the pagined project. The problems is the property of property of the property of property of

Professional standards converters, costing many thousands of pounds, have advanced electronic which can look ahead by up to four fields (2 frames and then interpolate the results to provide smoothe viewing. They also interpolate the lines in the frame and add extra lines to make up the difference between NTSC's 525 and PAL's 625. Cheaper stan dards converters, for instance in the £1000 or so range, as well as the multistandard VCRs, tend to have a simpler approach and often just throw ou the required five frames per second and only do lim ited line interpolation. The result, especially where action is moving fast, can be a noticeable stagger ing of the images and jagged diagonal lines where the interpolation isn't of a high enough quality to smooth the picture out sufficiently. It's the old story of you get what you pay for

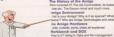
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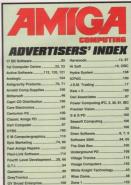
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