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SYSTEM REVIEWS

SYSTEM NEWS Everthing you want to know about the future of the Amiga games market is here. Check it out now.

CHAOS ENGINE 2 Andy Maddock takes a speeky peek at the



78

FINAL GATE In the past, CD32 games have never been the most sucessful but who knows, maybe Final Gate is a first



Manager 2 ever arrive. Let's hope it's going to be of the

Xp8 I heard about this game late last year but didn't take any notice of it - but now, it's the shoot'-em-up of the year



NUCLEUS

Neil Mohr takes a look at this new front-end generator, whatever that is

MR MODEM A corny name, but Neil Mohr thinks he's found comms paradise



LASER GUIDANCE This month, resident CD guru. Andy Maddock looks at Scene Storm, Magic Workbench Enhancer and more

JAZ DRIVE 59

Sit back and relax with this essential tool for all you music lovers out there

24 TURBOPRINT

what he thinks



SURF SQUIRREL Conjuring up images of tree-dwelling rodents in rubber, this review is sure to set your pulse racing

EATURES

NAB SHOW REPORT Harv Laser visits Vegas and reports on what he found their concerning the Amiga

DAILY PLANET Nail Mohr continues his in-depth tutorial on setting up your own Internet connection

WORLD OF AMIGA Our editor says "excuse me" as he barges through the crowds at the first UK Amiga show for a while





Hey, it's a dirty job, but someone's got to do it and Andy Maddock is just the lad WEB PAGE DESIGN

Amiga Computing presents a six month tutorial or Web page design, this month starting from scratch DATABASE 66

Paul Overaa continues his expert C programming series...

AREXX BEGINNERS and as if he's not got enough to do already, starts a new one for ARexo

HE COVERDISKS

IMAGE ENGINEER DEMO V3

The latest version of this shareware image processing package that has a new front-end which gives you real-time previews for all its graphical manipulations





OVER STORY NEWS

52



ESSENTIAL SHAREWARE

As usual we bring you the best of this month's Aminet uploads including

VoiceShell; PC Restore; RealDrag; SCSI List; Superview Libraries: System Prefs; Text View; XOpa: YAK: Update Copy

EGULARS

COMMENT If anyone ever says the Amiga's a games machine to you again, you'll know what to say to them

NEWS

VIScorp to buy Amiga Technologies, NewTek to launch LightWave 5, where will it all stop? Tina Hackett finds out

LETTERS

At last we're starting to break away from the Workbench 96 article with more letters about general themes

ACAS

10

Unde ACAS wants you to sit on his lap. He'll help you with your problem and send you on your way with a fixed Amiga

PUBLIC SECTOR Diddy Dave Cusick is a big man in the world of PD - people send stuff to him from all over the world VIScorp. Who are they? What do they do? What do they want with the Amiga? The answers to these auestions and more inside

MIGA GUIDE

Frank Nord shows us the best way to clean our





An explanation of pseudocode, its uses and



Dave Cusick reckons that building Web pages on an Amiga is getting easier





Phil South gives us part two of his tutorial on planning an Amos project



Steve White tells us how to make the most of text on our pictures



A review, this month, of 101 LOOM, an experimental automatic music generati Our favourite man in sunglasses, Gary Whiteley,



tells us all about the secrets Paul Austin puts the 106 finishing touches to his spaceship using texturing

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ah! The Amiga's just a games machine " how often have you heard it said? But let's reappraise the situation now, halfway brough 1996. Who plays games on their Amigas anymore? And how many of you look on in enw at Rebel Assault II. Duke Nukem Quake, Lost Eden, etc., etc., etc... The truth is out there, the fact of the matter is that the PC is the games markine now not the Amiga

It's not the Amiga's fault, it's just that games publishers perceive that the PC games market is so much larger than the Amiga market that they are no longer bothering producing Amiga titles. There is also the perception that most Amiza users have the bare minimum in hardware, you know the standard A500(+) or A1200 with no hard drive and certainly no added RAM.

The truth of the matter, as we have discovered from our survey, is that over 90 per cent of Amiga owners actually have a hard drive. and the average amount of fast RAM is extremely high at just over 7.5Mb! Nearly half our readers have CD-ROM drives, also negating the idea that games that are too large for floppies are too large for the Amiga. There are certain instances, like LucasArts' Day of the Tentacle and Full Throttle, that would lose nothing in conversion to the Amiga, vet our market is ignored. Okav. most of our readers only have a 68020 or 030, but that is still fast enough for the simpler Doom-type games, as has been proved amply by the likes of Breathless and all those other dungeon bashers.

The really stupid thing is that with the

Who's amiga. a games machine now?

graphic adventure games like Full Throttle or Sam & Max Hit The Road, there is very little work that needs doing. The core game engine might need porting over (although SCUMM. the LucasArts' game engine, existed initially on the Amiga anyway), but after that it's just the graphics and sounds that need changing. The AGA Amigas make a large portion of total Amiga ownership and they are all capable of displaying 256 colour screens. As for the sound side of things, well the Amiga has always had reasonable sound, better even than some PC sound cards (even today), and there's certainly nothing in a game like Full Throttle that Paula, the sound chin, can't handle

Then you can point to the Gallup software charts which still consistently have Amiga games like Worms and all the varieties of Sensible Soccer in the top ten and you just The Amiga was much maligned in the past as a games machine. but the tables are turning now

have to ask yourself why these companies aren't putting out Amiga versions of their games. Perhaps they aren't aware of the slightly more pokey status of the average Amiga these days and just assume that all CD sales would be on the CD32, which, let's face it, is not the ideal Amiga. I guess, once again. it's up to us. If you're on the Internet, why not point your browser at www.lucasarts.com and mail them your request at lucasarts 3@aol.com. If you don't have access to a modem, why not send them a postcard asking for the software you want to see. LucasArts

address is: P.O. Box 9367, Canoga Park, CA 91309-0367 USA



be ported to the Amiga easily, but

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ON THE GRAPEVINE

Following current rumours of redundancies made at Amiga Technologies in Germany, Amigo Computing talked to company spokesman Gilles Bourdin about the latest events. Bourdin remarked that trestructuring of the company had been necessary but he couldn't say exactly how many had been made redundant. He did comment that it was close to the rumoured figure of 10 to 13.

Bourdin went on to say: 'The fact that VIScorp is going to take over the company makes development redundant in Germany because they have enginees in America, many former Commodore enginees. In Germany we will be doing most of the marketing and sales. We have a big market in Europe so that makes sense, and most of the relevant engineers are in America anyway.'

He continued: "It's not been decided exactly how the organisation is going to be. We're having a transition time now which, of course, has made it necessary to

shrink the company – make it more reduced to its core. The fact is that the new strategy and organisation can only be made possible at the time when the deal

between Escom and ViScorp is concluded."

Amigo Computing asked him whether this meant that development is in the hands of the Americans now. He told us: "Not really, because the development in Germany has been made by external companies so actually much of the development work, both software and hardware, has been made by external people

who have been recruited by us to do this. We didn't have here what you'd call a research and development department.

Peter Kittle is still in the same role however, contrary to current rumours. Bourdin finished: "He will be staying until the end of June and then maybe we can find a solution."

OIN

the independent computer and controlled to the c

ICPUG is a non-profit-making organisation which has been around for 18 years. It was previously known as the Independent Commodore Products Users Group and now supports most home computers, in particular PCs, Amiga, and Apple Mare pixe the older machines made by the former Commodore company. Details from the Membership Secretary, Tim Arnot, 17 Colin Drive, Oakfields, Dideot, Uson 0311 782.



TO INFINITY AND BEYOND

Fans of the brilliant Disney animation, Toy Story, will be pleased to hear of the new mouse mat from Office Data. Choose from the two styles available, either Woody and Buzz or Buzz with his Pulsating Laserlight High pressure Space Vehicle. They cost £5.99 and are available from Office Data who can be contacted on 01925 820997.



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Ottors beard company, Laurian Engineering Corporation, has ammoused that it has loogile and the restlement in Proposering Corporation, has ammoused that it has loogile and the restlement and proposering his means that Laurian now controls beginning control controls. The control of the control of the Proposering Control of the Control

Bittersoft has also amounced this morth the release of the improved version of its Graphics Card, Picasso II. Called the Picasso III. At has a newly designed bus-interface which offers improved performance in all resolutions and the on-board monitor standerinates the need for a second monitor. You can switch easily between the standard Amigia resolutions and the new Picasso Amigia resolutions and the new Picasso.

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New features include a Vertical Blank Interrupt for smooth double buffered animation's, faster Zorro-II Bus speed and Pablo Video Encoder brightness control. The Picasso II+ uses the Cirrus Logic CL 5428 graphics chip which has an integrated 32-bit blitter and allows a maximum data transfer of 30Mb. The new version also means that with 2Mb of graphics memory you can display up to 800 x 600 with 16.8 million colours. You can also display the Workbench in 8-bit with 1152 x 900 at 65Hz (maximum non-interlaced resolution), or up to 1600 x 1200 with 60Hz interlace. Picasso II + also supports DPMS Power Save monitors. Blittersoft also has another offer this

month. If you're thinking about upgrading to a more powerful Arings, then it is offering a trade-in scheme whereby it will offer either 2000 for an AIZOO or E100 for an ASOO against the purchase of a new AODOIT. All it requires is that the machines are complete and working. The AMOOIT is priced at 1999955 and is the full OVO version and comes complete with a ICO drine, 2MO Chip, MMS Fast BMM obes full software pockages:

The company is also offering its A4000 TE for E129935. The machine is based on the full height loves and has the basic mother-board, 2Mb Chip and 4Mb fast RAMI but you also and decide on the processor, Habit you also and excide on the processor, Habit you also and excide on the processor, Habit you RAMI, CD-ROM (4x to 10x), Ricker Fister and Caphics Card. This method allows the user to buy a full A4000TE system with CyberStome 60s and Clo IDE Hated drive for E1202 inc WAT. Contact Bittersoft on 01908

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A new Amiga multimedis CD-30M has been leanshed to burn you all into boding boffits. The Epic interactive Encyclopaedia contains tunnes of information with a variety of soliphicts from Aachen to Zurich, accompanied by film clips, sound samples and images. The encyclopaedia has been produced in the UK and also differs you to add new subjects from the internet or from flogypaids. A hotfiel action along you to create displacement of the control of the con

snippets

TENUOUS

Virtually Croup, developers of Virtual Really system, has licensed the schrookay of all Need Mauselle Displays to Talear and Medical Displays to Medical Displays to Medical Displays to Medical Displays the Medical Displays

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Also from Bookmark Publishing is First Steps Amiga. Whitten by Paul Overaa, it guides absolute beginners through all the basics of the Amiga using clear terms without all the jargon. It shows how to operate the Amiga and how to use the Workbench programs. Both books are priced at 66.99 and you can contact Bookmark on 01525 715671 for more info.





If you want to learn the basics of the Amiga or find out how to surf then check out the latest books from Bookmark Publishing



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S HOW OF SUPPORT

The World of Amiga Show which took place at the Hammersmith Novotel last month was hailed as a huge success, attracting a crowd well over the numbers that had been expected.

According to those trading, their turnover during the two days was around £500,000 and on the first day a record number turned up in just threequarters of an hour, meaning people could only get in when others left

others left.
Following this success, a
Christmas show will now be
considered. For more details
about the World of Amiga show
and the exhibitors who were
there, see our full report later
on in this issue.



GOING SPARE

Hawkes Technology Limited has been appointed by Amiga Technologies as spare parts distributor for the UK. HTL is stocking the full range of parts for the Amiga and its strategy is to work through Dealers and encourage end users to make contact with their local independent retailer. It wants Dealers to register with the company so that it can refer leads for parts sales to their

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The InstantDrive package with 1.084Mb AV hard drive

is E21995 in: UKI whilet the package with a 1.283Mb AV hard drive is E24935. Both come with Workbeach 3, utilities, MMe pre-installed, cables, and-static kit and pre-installed, and and regarding waters and regarding waters and implications, fystech steel on its has fitted the drive to an Al200 in lies shar there minutes and regarding waters not implications, it says that as the Instantible package does not involve any modifications to the Amiga it will not result in any unexpired watership being void if fitted according to the supplied instructions.



READ ALL ABOUT IT

The greatest of all Amiga mags, Amiga Computing, is online and jam-packed with all the latest news, views and reviews. We now have an on-line chat area too where you can talk live to the inflamous Visst, Maddock, Mohr and myself. Or, if we're not there, chat amongst yourselves.

We'll also be bringing you the latest news updates to keep you informed of the very latest in the Amiga world. Go to http://www.idg.co.uk/amigacomp/ to get the lowdown. Commenting on the site. Editor Ben Vost said: "It's great – I wrote it."

DRIVING IN MY CAR

With the rush of people all trying to get their driving test through before the new written extra comes in this July, there is now no need to pomic if you do have to take the dreeded new test. The July do have been seen to be the designed to build up your conflict power the all-important doy. It gives comples of the theory test for you to sit and also tells you if you have possed at the end.

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HISOFT SYSTEMS HOME PAGE HiSeft **AMIGA**

The Internet...

Easy as 123

VIScorp seeks national representatives

an aeffort to better organise the input from Amiga developes workside, Viscory CEO Bill Buck has proposed that developer reput be channelled through a single national representative choisen from the existing developer base of a country, So far, only a French national contact has been amounced. His name is fire Latifiont and he is presently handing the entire workload of user and developer input. However, to better distribute responsibility, ViScory has saked interested portions to come forward and take our the contractive to come forward.

To enquire as to how to contact your national representative, or to offer your services in this respect, contact VIScorp by phone on (001) +312-655-0903 voice or by fax on (001) +312-655-0903 voice or by fax on (001) +312-655-0901 fax



VIScorp seeking to employ representatives for developer countries

USA News by Jason Compton

NETWORKING IN MIAMI

Chaosing a networking package on the Amiga and quite as straightnowed a decision as it used to be, either for local networks or for getting connected to your local tentered service provide. With the commercial release of AmiTCP 4, the revintisation of the ASZS-94-44 EZS package (as found in the AMIGA PART EZS package (as found in the Amiga Surfier), and the forthcoming networking tools from companies such as Oregon Research and HSGA, or may

think the field was already too crowded. Holger Kruse has found cause to disgaree. His new TCP/IP networking system called Miami promises an easy-to-use and attractive application for aetting an Amiga quickly connected via SLIP or PPP (the two popular methods of directly dialling your Amiga to an Internet provider), with the most up-to-date networking code for increased compatibility with new server software. Miami will not support SANA-II, the well-established Amiga network driver standard but will rely instead on custom SLIP and PPP drivers to better handle the dialup signals pealected by the SANA standard As such it will not be aimed at Amino users looking to construct a local, Ethernetstyle network

Mami promises to be mostly compatible with both AmITO or AR223/Am2 2s applications which use the proper library colls, menning many popular networing collent for e-mail, nesegoupus, their both and a second or e-mail nesegoupus, their both and a second of the articles and a second of the articles and a second of their both and a second of their

Mare information on Miami and other programs of interest can be found on Mr Kruse's Web site, http://www.america.com /~kruse/home.html. Alternatively, you can reach him by e-mail at kruse@cs.ucf.edu.

AVAILABLE IMAGES

Mocid Nide
Web Site
ImageFX... Press Releases
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The Amiga's premier high-end image processing package gets better! Close on the texts of its explicition of the Added to the rection gat amount and again hadden to rection gat amount and again triginis should been been been processing pack that the latest upgrade to the popula imageTx effects and image processing pack age will be available immediately, the 24 upgrade includes enhanced Videe to accompany to the contract of the contract of the transfer protection colour photographic pair to a vivice-remoint oration for advancing wire suspended images (such as a spaceship mode in a video only) and a set of updated an

processing package gets settler!

entirely new effects.

The upgrade is priced at US\$35 for all regis

teed Imageff X.0 (or higher) users. Users may order directly from Nova Design at 1-800

MMGCE-69 (001) +804-282-1157), or can be faxed to the company x (201) +804-223

3768. Nova Design also has a Web site for user support and information a

SOFTLOGIK GOES LIVE

Following in the much-overdue but quite vericome trend of increasing on-line awareness, PageSteam publisher Softlage) has sepanded its on-line presence to include a Web site. The page, at http://www.softlogik.com, offers instant access to upgrade patches for PageSteam, as well as ordering information for the entire line of Softlage) and Digits products, for which it is the exclusive North American distributor. The ordering page includes special "Powenp' and competitive upgrade options.

SoftLogic continues to offer free on-line and mail technical support. Other support options are explained on its Web site. For more information, check out SoftLogik at the aforementioned Web address or contact its automated mailer at info@softlogick.om. More conventional individuals may phone (001) +314-256-9595 or fax (001) +314-256-7773.

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EXTRACTING COVERDISK FILES

ter you should make sure you ite protect them by moving the ole. Doing this makes sure you can coverdisks need to be wri even if the computer asks you write enable the disks, don't do it. To extract any single archive, s ply double-click its icon and foll the on-screen instructions. If want to guickly extract the pro to RAM, select the NOVICE level of the welcome screen and preoceed once on the current scre and then again on the next. The n gram can then be found in your RAI disk. Normally most programs nee further installing, so read th documents on how to do this.

HARD DRIVE USERS

Hard drive users do not have to boot with the first disk, but you must make sure you have the Amiga's installer program in your C drawer. To make sure your hard drive has the correct files in place, double-disk on the SetupHD ion. This will check if you have the Installer program and if not will copy it across - do not worry as it will not write over any existing files.

All you hard drive owners will find MultiExtract very useful. It is a separate method of extracting the coverdisk files and allows you to extract a number of files in one go, to your hard disk or RAM.

When you run MultiExtract you will be presented with a number of check boxes, each representing one of the programs on that coverdisk Just de-select all the programs you do not want extracting and then press proceed. All the selected programs can now miraculously be found in the selected destination.

Prime Metal State

This is MultiExtract for all you sensible scope with hard drives



Image Engineer is back. Meaner, leaner and looking quite sharp to boot

INSTALLING IMAGE ENGINEER

Before you can use Image Engineer you need to have SuperView installed on your machine — If you used Image Engineer from our Christimas Issues you do have an old revision of SuperView but you should still install the new version from our coverdisk as there are a few plug corrections and more features. SuperView is a set of binaries that allows Image Engineer to load and save a large number of different file types, so toddle off and install SuperView and come back.

To estract the Image Engineer archive off the coverdisk you should boot up your machine as moral. Once Workbench has loaded, up the first coverdisk in your floppy drive and double-click on the AC icon. If you have not used an Amigo Computing cover disk before, or you do not have the Installer and Ltx programs on your hard drive, you will need to double-click the SEUI/FIDI icon.

Using the normal Amigo Computing installer you can extract the Image Engineer archive to wherever you like, and once this is done you will have to install the program to a permanent location on your hard drive – there is a installer to do this which you should use. This will copy all the files in to a drawer as well as copying the BOUI library and setting up an

full

stan



With Image Engineer's built-in effect modules and AR a multitude of image processes are at your disposal

18

SHAREWARE

any of the programs on the second cover disk are what are commonly known as reware. Such well written programs take many hours to write and a lot of hard work and dedication on the part of the programmer.

When a program is called shareware it means the programmer has generoush

ved you to try out their program, a lot of the time with no restrictions, and if you then Normally this is no more than ten pounds and in return the author will sually keep you supplied with the latest version of that program, along with their ndying gratitude of course. So please don't forget to send your fee.



IMAGE ENGINEER V3 DEMO

Author: Simon Edwards Workbench 2.04

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Image Engineer is one of the most impressive public domain programs I have seen in a long while. An Image processing program in the style of Image Studio, this latest version of Image Engineer takes all the features and functions of the earlier version and adds a

new front-end, making the whole program much easier and straightforward to use Thanks to the use of BGIII all the effects that Image Engineer performs can now have full colour or greyscale previews, so you can get a very good idea of what the final image will be like without having to go through the whole process. Thanks to the new modular design, new processes can be added at a later date, making Image Engineer even more expandable than ever before, and thanks to its ARexx interface complex multiple processes can be automated, allowing a process

With the use of BGUI and the new modular design, Image Engineer allows you to define exactly what extra menus you want. As standard you get the normal Project and Image menus that you cannot change, but from the Menus option in the prefs menu you , can add as many new menu items or menu sub-item entries as you like. These can then run either a module. ARexx script or internal Image Engineer ARexx command.

that would normally take many steps to be done with a single command.

If there is a function you use a lot you can

even apply a hot key to it for instant access. An extra function provided by the menus is that if you regularly load/save from/to the same directories these will be added to the load/save menus so you can choose them without having to go through the same directories every time

Possibly the best new feature for version three is the introduction of previews to just about all the effect modules. When you select to use an effect a scalable window will appear that contains a thumbnail version of the current image, along with a close-up preview of what the final effect will be like. You can select any area of the thumbnail to view and the close up view will be updated. Also, as you change the various values of the effect these will also be displayed in the close-up preview.

Most of the effects have this dual display and if you have one of the faster 030 or 040 accelerators the previews will be in real time. On a 020 you will normally only have to wait a couple of seconds at most, and as a preview is progressively displayed you can get an idea of the finished effect virtually straight away. Colour effects such as gamma and contrast only have the thumbnail preview. and even on a plain A1200 take effect in real time and allow you to make adjustments until you are completely happy before committing to the effect.

FAULTY DISKS

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

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

Please allow 28 days for delivery

IMAGE ENGINEER MODULE FEATURES

Image Engineer has over 30 individual effect here is a selection

AutoCrop - quickly remove background Brightness - change brightness of an

Bulge - bulge in or out part of an image Composite - create composite images from 2 sources

Contrast - adjust the contrast of an image Convolve - apply a user definable convolve to an image

Displace - move the pixels in an image under the alpha control Equalisation - optimises the image's

histogram to improve clarity FalseColour - apply false colour to an

Gamma - adjust the gamma levels of an Halftone - halftone the image under

alpha control HighBoost - highlight fine details in an

HighPass - extract the fine detail from an Histograms - display an image's various

histograms LocalStretch - highlight the detail in an

Maximum - filter an image using the greatest pixel value Posterize - applies a posterize effect by reducing the colour range Rotate - rotate the image

Twirl - twirl a part of an image



AMIGA COMPUTING

ompletely user

SUPERVIEW LIBRARIES

Author: Andreas Kleinert Workbench: 2.04

re you can use Image Engineer you eed to install the SuperView libraries nto your system. The SuperView libraries es and modules that allow othe ams that support SuperView to eas d, save, convert and process image ith the minimum of ease. This allow nmers to concentrate on perfect g their program without having to worn tout supporting every different type of ture format out there.

m the author, Andreas Kleinert, to stribute a cut-down version of the original SuperView library. Please note, the chive found on this month's cover disk a special version solely for Amino ributed by any other means, public omain or not. A full version of the uperView library can be found on

etforward using the standard Amiga ller program, Even though you must take sure you have the Installer program etUpHD icon on the first coverdisk and this will make sure you have the lectaller



VOICESHELL

Author: Toni Blinnikka Workbeach 2.04 Samples

If you own a sampler this

program will be of interest

to you. Basically, it allows your Amiga to learn and recognise your voice, allow-

ing you to run programs by

saying what program you want.

Unfortunately, VoiceShell

does not come with an

installer so you will have to set it up yourself. Luckily this is not too bad because you will only have to copy the

voice library into your Libs

drawer, and if you are Finnish there is a language

file that you should copy

into the Locale/Catalogue Suomi drawer. As standard,

VoiceShell has direct sup-

port for the Perfect Sound Audio Master and GVP DSS

Using VoiceShell you can make people think you are going mad by talking to your Amiga all day

8 samplers. If you do not have one of these then there is a generic sampler mode that will work with most other samplers such as the TechnoSound sampler

To enter a new command, select the Commands from the Edit menu which opens a window into which you can enter new commands. If you type in the command you want VoiceShell to recognise, this opens the learning window and if you hit sample and say the word into your microphone VoiceShell will attempt to learn the word. You are best doing this a few times as this gives VoiceShell a clearer idea of how you say the word

Due to the learning system, VoiceShell is only going to be able to recognise one person at a time because everyone has their own way of pronouncing words and their own accent. So if there are a couple of people using the same machine you will have to have a separate

proference file for each person.

SCSI LIST Author: Richard Sellens

Workbench 2.04, Magic User Interface

To use the following program you need to have the Magic User Interface v3.2 or higher installed on your system. Without it you will not be able to run any MUI program. MUI is available from any good PD house

A problem with hooking up new hardware is that once connected, if the thing does not start to work straight away you can never be too sure exactly where the problem is originating. It could be a software problem, an incompatibility problem, a jumper setting or just that you have not connected the damn thing up correctly. This is also true when adding new devices to a SCSI chain, but SCSI List will help you figure out what devices you have connected and



Due to the different out there, SCSI List will need to be changed to look at your SCSI interface. Be it a Squirrel. Oktagon card or whatever. you will need to alter the DEVICE tool type in the SCSI List to the device you

what they are

If you need to check what is on your SCSI chain.

PCRESTORE

Author: Mikael Nordlung Workbench 2.04

This is a really helpful program for anyon who regularly has to go near the good old PC. Normally, unless you are in the privileged position of having access to a PC and Amiga with a SCSI interface or something like a spare Zip drive, when transferring programs from the PC to the Amiga you are stuck with the biggest file you can transfer between the two machines being

What you need is something that allows you to back up a load of files from the PC onto as many PC floppies as it takes. Well, on MS DOS there is a command called Backup that is for backing up your hard drive. PCRestore is an Amiga program that allows you to restore these PC backup files. so you can back up as much as you like and then take your fistful of disks over to your Amiga and get back all the files.

Even if the files you are dealing with are smaller than 720k it is a lot easier to simply save all the files in one go than having to try and fit them all on separate floppies. Unlike the PC command, the PCRestore program comes with an easy to use frontend, so all you have to set up is where you want the programs to be extracted to.

REALDRAG

Author: Stuart Monteith

RealDrag is a tiny little program that is completely straightforward to use. Just extract it off the coverdisk and double-click on it, and if you now hold down the Ctrl key and select a window with the mouse key you can move the window around without using the title har Okay so it is not exactly going to set the world on fire but it means you can easily move windows without having to shuffle other windows out of the way. One effect of RealDrag is that you can click once in the window and then click again where you want it to appear

SYSTEM PREFS Author: Richard Korber

Workbench 2.04

Workhench 2 introduced the current preference system along with the, then, new preference program that allowed you to control and tailor all the different parts of your Amiga to your tastes and requirements. One area that was skipped over, however, was some sort of control over the actual hardware such as the CPI1 memory and custom chins. You had control via the CPU command but this has to be used from the shell which you would have to run every time you started your machine.

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System Prefs does exactly this job and fills the gap left by the current batch of system preference programs. It is really more of use to power users with accelerators or A4000s. You can set which caches should be used



With System Prefs you can now adjust all your CPU caches

and other such things. An installer is provided and will copy the two main System Prefs programs across along with a couple of

You will, however, still need to add a line to your Startup-Sequence. If you open a shell and type ed sistartup-sequence you need to add the line SysPrefs >NIL: somewhere before the IPrefs command.

X O PA

Author: Axel Dorfle

It is one thing that you should not have to do but every now and again it is helpful to have a nosy at just what is going on in the inner workings of the operating system. XOpa is a system monitor very much along the lines of ARTM

Using XOpa, every private little nook and cranny will be at your finger tips and available for you to play around with. You will be able to find out details of every task and program currently running, every screen and window, libraries, fonts and devices, along with other esoteric details.



New you can find out loads of stuff you never wanted to know

TEXTVIEW

Author: Torbiorn Andersson Workbench 2.04

If you are looking for a replacement for the horrid old More or just an ultra fast text reader, TextView could fulfil all your requirements. It's fairly small and can ad and even save large text files in a olink of an eve.

It is all very configurable. You can run be used and you can even set where you



YAK V2.12

Yak is one of the older system 'enhancers' and has been around for a while now. Instead of taking the MCP or MCX approach of trying do everything. Yak just concentrates on a few main functions but gives you a lot of options. Along with a very configurable mouse cycling section that gives you plenty of control over your windows, you also get a very comprehensive hotkey support that lets you do almost

There is a new digital clock and plenty of miscellaneous options that are all adjusted from an easy-to-use preference program. Yak comes with an installer that copies all the correct files across. There is a BGUI version of the preference program that if you have installed Image Engineer you will be able to use.

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AMIGA COMPUTING

he National Association of Branch Residence (NAS) small course (NAS) and combination of others of conteners (Industry and industry and in

This convention's focus is and/or and telesists breakderings of the topics and enhibit really and the grant from anything even remothly associated with troop ting even remothly associated with troop industries. Some of the conferences included Radio Station Management," Broadcast Engineering and 'Broadcasters: Law and Regulation's News our currents user present expenditures and NOS daily generated many was and enhibits coverage. This shows must broadcast both on monitors inside the convention has do not provide a contract of the larger Vegas hotels where attendes stayed.

The NAB exhibits featured nearly 1,000 companies and, for the first time, the immense Las Vegas Convention Center could not contain it all, so it spread into the nearby Sands Expo



O LightWave Pro spinoff Alpha Visual FX deals a graphics software for DEC Alpha-based machines

MONEY SPINNER

You'll remember a couple of years ago, some heart far management, nichaling 19 Peril Antonopure, engineer and PR people Het. Komos for Scorments, CA and merged with Digital Het. Komos for Scorments, CA and merged with Digital Ceclotions for hem, Ear. Proje been miles grift of prefine of and Proy again shared to kinder \$10,000 Trainly select system, the alligate? Inter-this Trainly and early Collection are buyl activishing and the new discovers with Microsoft and Softmans and the selection of the selection of the selection of the linking protection facility and the selection of the selection of the properties of the special field and it is still not shown in this protection.



Harv Laser reports on the annual NAB show and discovers how the Amiga is becoming part of the new media of the future

Center as well. On the exhibits floor, you could see the latest state-of-the-art technology ranging from huge displays of a TV news

helicopter equipped with rotating camera pods, to radio station amplifiers, mics and control boards, motion control film cameras, mobile audio, cellular, the new Digital Video format software and hardware, non-linear editing, right down to single table dis plays of such mundane accoutrements as cable ti downs, amplifier tubes and O The new trimmer NewTek labels for tape reels set to have a humber year if

As with other recent and to have a housey per air Sign legas Commention (VES.

COMDEX, etc.) the Internet has become a player at NNB and this year it featured a special and to General pastion hosting some large on-fine sensices, smaller providers, Web vendors and develope—fix. and volume en, and computer vendors who make the handware to fee all targether. Many exhibiting Veggs, but a comparies seemingly have unlimited funds to attend these tagle shows. It can easily cost a will change

company up to \$200,000 or more to had a few booth, and many of them might show at tent conventions each year. After recognitions on the security checks a reporter was required to go through to attend a speech by U.S Vice President Al Core, I decided to forego that treat and, instead, wandered about the huge exhibit halls, concentrating mainly on the 'NAB Multimedia World' at the Sands Expo Center which contained the exhibits that the readers of this magazine would probably find hall, I

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and in register would proceed in most interesting,
Between the SS can of Coke and the SS hot dogs, there were some technically appeting attactions. Although I had hoped a would be otherwise, the Arriiga was not much in evidence at this year's IABA. Viscop, who by now you know as fourth keeper of the Arriiga files.

Amiga flame (after Amiga Inc., Commodore, and Escom) had planned to attend NAB, but its public relations officer sent me e-mail and a go by told me that it had decided instead to ship its executives off

instead to ship its executives off to Europe for the recent WOA show in the UR and to Germany for discussions on its planned purchase of Amiga Technologies GmbH from Escom. Amiga Technologies appeared last year at VTU Espo in Hollywood, and COMDEX in Wegs, but since then has not appeared at any other US-based trade shows. Hopefully, that will change. Pethaps I missed others, but the



Bigger and bigger than ever, NAB 96 wasn't bette
 as the ratio of Amigas to other machines gets smalle



O LightWave 5 was NewTek's shock on at NAS, but when will the Amiae version arrive?

only Amigas I noticed were at NewTek's large booth and the mostly-an-Amiga at Draco Systems' small area. Near the back of the Sands hall I found AMG Media, (http://www.portal. com/-amg), where the publishers of Video Toaster User and LIGHTWAVEPRO handed out free copies of its newest publication. Alpha Visual FX magazine, a glossy, 42-page periodical whose purpose is to 'focus on 3D animation, graphics and video applications running on high-performance Windows NT systems built around the Digital Alpha microprocessor family. Since NewTek's products are no longer Amiga-specific, it makes sense for a publisher who mainly covers those products to branch out too. NewTek's area, while large, seemed to contain a lot of empty space.

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Ringing the perimeter were individual stands featuring all the computer systems on which one could run LightWave 3D, or into which one could shove a Toaster or a Fiver system. The central area held a small stage, backed by a number of monitors, and a desk at which various NewTek engineers demoed its products to an audience seated on small, uncomfortable

NewTek can still give a good demo; and LightWave has really made a name for itself as the 3D rendering tool of choice for many production houses, so the booth was constantly crowded. Off to one side was a bright red phone booth with a direct telephone connection to NewTek's offices back in Topeka Kansas. From inside this booth, one could order or upgrade to LightWave 3D version 5.0 the higgest surmise NewTek snrang at NAR LightWave 3D's new list price for all platforms is now \$1495, upgrades for \$495, and the Amiza version upgrade for \$295. Intel and DEC Alpha versions are shipping now, with the others to

follow In a somewhat surprising move. NewTek also announced a port of LightWave 5.0 to the PowerMac platform (to ship later this year), and in another press release unveiled a "technology alliance" with Sun Microsystems, with a Sun port of LightWave 5.0 involving Java technology forthcoming, LightWave 5.0 is literally bursting with new features, far too many to list here. including over 50 new plug-ins, so check out NewTek's Web site at http://www.newtek.com. the LightWave Internet mailing list and LightWave Usenet newsgroup for tons of

information and specs.

The most significant new LW features demonstrated at NAB were probably the 'OpenGL' real-time camera and lights preview modes in both Lavout and Modeler (unfortunately, not available in the Amiga version) and 'MetaNurbs' in Modeler (for all versions). MetaNurbs is an extremely cool and powerful new modelling addition, effectively turning your polygonal model into a lump of clay. I watched a live demo of this where a simple cube was pummelled and pounded into both a hair dryer and the head of a rabbit in less than a minute

Another exciting addition in UV is a more advanced bones feature. The demonstrator added a couple of bones to a very simple human arm model and when he bent the arm, its muscles flexed! If you haven't guessed by now, many of these new LW features are geared towards better character animation. After all, there's more to

life than blowing up spaceships. Of course it's the job of any expo demonstrator to know his product inside out and make using it look easy. But like any complex program, LightWave has generated a huge amount of third-party training support, and Desktop Images was at NAB, just a stone's throw from NewTek's booth, hawking its line of LW and Toaster training tapes. While the

Taken as a whole, NAB is a snanshot of the state-of-the art in broadcasting. It's the industry's yearly examination of itself, trying to decide where it is and where it wants to go

LightWave demos were performed using a new Intergraph TDZ running Windows NT with a very fast processor, the Flyer (NewTek's tapeless, non-linear editing product) demos were done with an Amiga 4000 Tower

Although I don't do any video editing myself. I couldn't help but be impressed by the Flyer. It's matured to the point where even to a layman like me, it looks like throwing

together a broadcast-quality video of any length, including perfectly synced sound effects and music, would be a cinch. It's still amazing to watch these demos and realise that everything one is seeing is coming directly off a hard drive, with absolutely no video tape used at all. Between demos, NewTek's booth had constantly running 'demo reels' featuring cuts from shows such as

Babylon 5 and seaQuest DSV, whose special effects were produced with LightWave 3D. At past NAB conventions, it had become a NewTek tradition to hold a press conference and new product intro at a huge ballroom

at Caesar's Palace. This year was different, however, as the apparently leaner and more costconscious NewTek instead held an invite-only party at a Vegas dance club (formerly a casino) called 'The Beach.' The bad dance music on the distorted sound system pretty much drowned out the announcements from where I sat, but I spotted the cream of the LightWave animator community there, including Allen Hastings, Mark Thompson and Steve Worley (who is soon to release his new LightWave plug-ins). Actor and 'Toaster Head' Dick Van Dyke was also reported to be at the party, although I didn't see him myself.



And finally the Mac asts a decem NewTek comple the set of mechines the LightWave is

NTO THE FUTURE

Taken as a whole, NAB is a snapshot of the state-of-the-art in broadcasting. It's the industry's yearly examination of itself, trying to decide where it is and where it wants to go. The products exhibited there are what the trade is, and will be, using to produce the news and entertainment programming served up to the public over the airwaves on cable, via satellites, in theatres, and more and more on the Internet. This expo keeps growing because the methods of media delivery do. In some fantastic future, (which probably isn't that far off) when we all may have a 500-channel set-top-telephone-internet-movie box sitting atop the telly, it may very well have Amiga guts inside it, and the companies who attended NAB are the ones who will cranking out the programming to fill it.

AMIGA COMPUTING





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Two aspects in Nucleus' favour are that it's cheap and is unbelievably easy to use From the main program window you can set how the menu should appear either on the Workbench or its own screen. From here, hit ting the edit window button will open a blank window. You can now add buttons, pictures, borders and image buttons just by pointing and clicking where you want them to go. It's as straightforward as that - you could have a test Nucleus menu up and running in a matter of minutes

Any of the buttons can then be assigned with either an AmigaDOS command or script, an ARexx program, or one of the three internal com mands that quit, iconify or flip Workbench to the front. This allows you to easily create pro gram menus or slide shows with a minimum of fuss. To then create a stand alone menu you must save it off as an executable program, and if you have added any graphics these are all contained within the executable. A basic menu with just text buttons, the sort of thing you might use as a program launcher, comes in at around 8%

Making colourful menus has never

been so easy with Nucleus, Neil Mohr

takes a look



The Nucleus Interface is straightforward and simple to a

perfect for putting in your WBStartup drawer. The only major draws back with Nucleus is that you cannot have menus in menus and, therefore, you cannot have a button linked to another built-in menu. If you want to do this you would have to set up a button to run another Nucleus menu which is not quite so elegant a solution

Nucleus is a great program. Apart from my small complaint about the colour remapping I cannot fault it. It is so quick and easy to use - all you are left worrying about are the graphics you want to use, if any. Once those are done the actual interface will take a matter of minutes to set up. An absolutely fabulous application

RAPHICALLY SPEAKING

Beyond just allowing you to add boring old buttons, Nucleus has the ability to load IFF graphics which you can then apply to various parts of your window or screen. Images can be used as background patterns, the same sort of thing as Workbench patterns, or standalone images that you can position anywhere on the screen or window.

Along with that you can also add image gadgets which allow you to apply images to buttons for both their selected and unselected modes. Using image gadgets allows you to create more impressive looking front-ends for presentations or menus

This very handy feature of Nucleus is not without its problems. As it allows you to import lots of individual images for use as addaets or backgrounds, you can go a little mad and end up with lats of different impaces all with different palettes. Nucleus does have a remap function that does its best to match the image to the current screen colours, but even on a 256 colour screen you can quite easily run into palette problem

To get around this you will have to do a lit tle planning before you go ahead and start creating a front-end. Possibly the simplest way would be to design your meau screen in DPaint or Brilliance, drawing the buttons in

place so when you import the entire screen you can mark out the buttons that are drawn on the screen with 'invisible' image buttons. If you don't do this you will have to make sure all your buttons have the same painting

It would be nice to see a little more intelligent remapping of image and screen colours. Currently, Nucleus allows you to 'grab' either the screen's palette or the palette from an imported image. This, however, simply over lays the images palette on the existing palette so you lose all your current colours, and the remap option just tries to match the image colours against the existing screen colours.

This does not stop Nucleus being any less usable - it just means you have to be a little careful when importing graphics. Now if you had a 24-bit display this would not be a



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AMIGA COMPUTING

We

ewsgroups can be thought of as large discussion groups conducted through people posting questions, ideas, points of view or replying to previous postings. To help things along there are many 'discussion' groups known as newsgroups, the name of the newsgroup describing what it is about. The naming system takes a sort of hierarchical directory scheme, so a rough break down would be:

alt' misc.*

built-in

Nucleus

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mapping

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take a

£8.99

Alternative discussions Computer-related groups Recreational discussions Scientific subjects Information that doesn't soc." General discussions talk* news.* UseNet groups

It is hard to see from this that there are well over 15,000 different newsgroups out there, around a quarter of which are covered under the alt, section which contains newsgroups devoted to every subject under the

Unfortunately, at the moment there is not a single decent news reader available for the Amiga. The ones that are available tend to do only one thing very well and are then lacking in other areas, so I find the best solution is to use two programs depending on what you want to do. I suppose it should be of some comfort that even Netscape's news browser is not perfect, which is surprising considering all the hundreds of man hours that must have gone into it.

NEWSAGENT

With any program, you want it to be straightforward and easy to set up and use, and NewsAgent is almost that. You can find the NewsAgent1_3.lha archive in the comm/tcp directory on Aminet. When you extract it there is a good old installer script that will copy the main program to the AmiTCP:bin drawer, and a preference file to the UULib: directory. You should start AmiTCP before installing because it will set all these assigns for you. Before using NewsAgent you need to

NEWS

There seems to be a MUI version of every major Internet utility and newsgroups are no exception. mNews is the most recent of all the newsgroup software - it is only a few months old and is a very early beta release. However, in its current form it is a very usable an-line reader and has the potentia to be a good off-line reader in a future version.

If you would like to try out mNews you can find the mnews0_2.lha archive in the comm/news directory. Once you have extracted the archive. drag the directory into the AmiTCP drawer. Before you run mNews you need to add assign mNews. AmiTCP:mNews to your user-startup, and if you want to run it straight away type it into a Shell. When first run, mNews needs to know a few things. Most importantly, for the remote host configuration you have to enter your Domain name, and also that all-important news server address. For the local host configuration, make the news enter C-UUhX x %s - if you have got UUhX. Once this is all done you are ready to go.

The only really annoying thing with mNews is that before you can add a newsgroup you need to download the entire newsgroup list from your news server. It would be much quicker if you could just enter the group name yourself.

When you join a group, mNews allows you to choose how many of the recent article subjects it should get, and from there you can select which

change the HOST entry to point to your Internet provider's news server address - for example Demon's is news.demon.co.uk. and you should also add the line XOVER at the end of the file. This allows NewsAgent to get some extra information about the news





configure the preference file to your own

needs. It is only a text file so you can use any

text editor and if you have installe NewsAgent

the preference file is UULib:NewsAgent

Defaults. Most importantly, you need to

O For batch with Tin and on line reading NewsAgent is a good choice

Neil Mohr's unofficial Internet series takes a look at newsgroups

articles, but does not work with every news

In use, NewsAgent can either be an on-line reader or a batch downloader. It is very efficient as an on-line reader - you can quickly select a newsgroup by either entering its name or, as NewsAgent remembers all past visited newsgroups, select one from the newsgroup list. You can then select exactly how many and which article titles it should download, and then scan the list and read the ones you are interested in.

As a batch downloader you select which articles you want to download - there is the notion to include or exclude articles using wild cards - and then hit the download button in the articles list. All the articles are then downloaded into a single batch file that you can either process with UUhX to extract III Founded files or with Rnews so Tin can be used for off-line browsing.



O Worth a look but a new version

ones you want to view or save off. There is also the handy option of directly UUDecoding a file and saving to disk. Hopefully, a future release will see mNews becoming a very good news reader.

AMIGA COMPUTING

GRN

GRn is another on-line news reader, but my main complaint is that it is so slow. Once you know what is going on. GRn is not too had to set up. I'm assuming you are using AmiTCP 3 or above, so you need to give the program GRn.qmitcp an icon file. If you are using Swazlnfo, pop up its information requester and drag & drop the normal GRn icon across - otherwise you will have to manually copy an icon. Next you need to add these two Tool

Before you begin to run GRn you also need to create a drawer in UULib: called News so GRn can save the active newsgroun

Once this is done you can choose which groups you want to subscribe to - I would suggest that if you only pick one, comp.sys.amiga.announce would be a good choice. If you now quit the newsgroup list and click on Save/Update GRn and then Rescan news, GRn will get the latest posting to the amiga.announce newsgroup.

Even with GRn only having to scan 20 or

30 article headings it takes absolutely ages. In the main article viewer you have to download each article separately and there is no way of knowing how big an article is

) It looks

all right, but

beforehand. If you do not suffer the same speed problems as us then GRn would be a reasonable on-line news reader, but as it stands it's just too slow.

Ment Best Spread Shreet Catch as Drev Group Sext Group one Direct JOCES OND SWEND ENGOGED IN MAY MEYOTHELE

INTINNABULATION

Tin is one of the older news readers around and is a port of the Unix news reader. As it stands it is not too straightforward to set up but once up and running it does give you a lot of features and is fairly easy to use.

The current version on Aminet is version 1.3 and the archive you want is comm/news/tin130gamma.lha. Along with the Tin archive you will need a couple of other small tools that help Tin look after downloaded news items. You will need to get TrimNews.lha as well which can also be found in comm/news, and Rnews117R4 Hist.lha can be found in the comm/uuco

Rnews takes a batch file like the one created by NewsAgent and separates all the files from this into their correct newsgroups directory on your hard drive, in a form that Tin car then read. The TrimNews program removes old news files, so keeping the amount of news on your hard drive under control.

To get Tin up and running you will need to extract all three archives. Copy Tin.exe and Actived from the Tin archive along with the Rnews and TrimNews programs into the AmiTCP:bin directory. As Tin is a Unix program you cannot just go ahead and run it and expect it to work as there are a few things that need to be sorted out beforehand.

These have to be done every time so you need to create a small batch file that you will use to run Tin. Type the following list into a text editor and save it to the AmiTCP-hir

drawer as StartTin-

Rnews UUSpool:BABatch ; get news Delete UUSpool:BABatch : remove old harch

SetENV USERNAMI SUSFR : to make sure into care

Ask "Do you want to trim news no y/n?" Trisheys ; remove old news

UnSetENY TIN_GROUPS : this is set by Actived So that you can then actually use this script

to start Tin, you need to type the following

and this tells AmigaDOS that StartTin is a script file and that it should be executed. This allows you to just type StartTin instead of using the execute command every time you run the script. To add new newsgroups to Tin you need to alter the UULib:Newsgroups file. This holds all the newsgroups you want Tin to read, so to add comp.sys.amiga.annou load the newsgroups file into your text editor and at the end type comp.sys.amiga ordion announce. You can then add a number after it that relates to how many days news should be kept before TrimNews deletes it

RC 50000 11 (-Grn2. la Online/offline? Sqirrel SCSI World of Phiga, London: Re-Manted Schoptound Shifter Graphics in other windows? inted Background-Battler rephiles in other windows? red help with messed-up CG fonts nich 3.500 for by R1286 of a 6000 Amiga 588N page? 1288 Display Modes 500/48 Boards for the A588??? prystones
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∩ It might not look much but Tin is the most comprehensive news reader and







THX 53IS

Standing room only

ammersmith's Novotel will be a familia venue for anyone who has visited Amig shows in the recent past, and the basement suite should be even more familia for this is where, year after year, the faithful has exthered to pa

gathered to pay homage to the Amiga and all its wares.

This year's show was thought to be a muted affair, the concern over the machine's future hanging over-

head like a bad smell but, as it turned out, WOA 9 was a very bowy show. Although there wasn't ver much that was new on the stands, there was a lot o enthusiasm from punters who were spending money at a rate of knots. In fact, the show proved to be on the small side with people standing fire deep at stands (including ours), waving fives, desperat to donate their cash to worthy causes in return for.

two. The international continent was high and although there was only one foreign-owned stand three were plenty of VAPP, View Important Angia, People, if you knew where to look. In fact, the show had a very international feel to it, at least behind the scenes, where there were deals being done and hands being shake in every nook and cramy of the Novotel bar. So just who was on the show voste? For a start America and a start dama was a start dama was a start dama was a start dama was not a start dama was not the start dama was not the start dama was not the start dama was not dama was not start dama was not da

Micronik's A1200 tower case looked particular impressive. We look forward to doing a review

of its monster stand from CeBit, complete with the only working Walkers in existence which, as could be expected, were drawing a lot of

Directly opposite was our stand, replace with sisses part to present and our star attraction — Worms on our attraction — Worms on our AMOOO. Unfordunately, there was seemingly absolutely modely after the six sold publicity was for nargist. However, we did have Andy Davidson, programmer of whose, programmer of one point on the Sunday.

to the new owner of the Amiga, Bill Buck, CEO of VIScop. An ideal photo-opportunity, you are probably thinking and yes, it would have been if it wasn't for the fact our office camera's battery had run down to a point where it couldn't even focus, let alone take any pictures.

showing the new Worms+

Magazine's were pretty well represented at the show as a whole, perhaps something to do with advertising contra deals? CU Amiga had a head-to-head game of Alien Breid' 3D2 on their stand, Format had Capital Punishment, and EM magazine had Errol from

EMComputergraphic for entertainment value.
HSoft's stand was
constantly busy,
so much so
that it took me

that it took me until Sunday to speak to David Link. He said the show

> Do you know me? I used to man age a well-known Amiga campa ny, but now I like to play geetar

NOTABLE BY THEIR ABSENCE...

There were a few notable exciptions from the conguies of the show including Softwood Corolon fewroods. The there is a state of the new section of the new the corolon of the section of the new section of the leaving the imagazines is \$81 that and of the newser (a bit leaving the imagazines is \$81 that and of the newser (a bit colling ready creating most of a ready notice ourselves on the softwiseld great of a ready notice ourselves on the stochastic great of a ready notice ourviews on the stochastic great of the softwise of the ways supposed to be found or work finishing off

had been a great success, which can only be due to the fact that HISGh has some great products either coming out or here already, with the likes of the Surf Squirrel and Wieb and Net Cafe being particularly sought after at the show. It also had the lat Drive in an internal version ready for sale, but additional cartridges were a bit thin on the ground. The problems surround-

ing the dearth of Zip drives have obviously been

resolved, on the other hand, because practically

every stand I saw had them for sale and the

competition for custom at the show meant better prices than many potential customers

Wizard Developments had a stand

selling its mix of modems and

software including showing

the latest version of

Directory Opus, the one I

promised Greg Perry I

wouldn't call DOous five

and a half... oops! Still.

the new version looks as

if a lot of the complaints

directed at the very first

release of DOpus 5 have

been sorted out (although

my original complaints about

selecting font directories with their

appropriate font files, and DOous'

ability to read two floppies with the same name

haven't been fully resolved). Greg even gave us

some T-shirts to give away, so the first five read-

ers who send a pretty postcard from where they

live to our usual address will get one of these

exclusive garments as modelled by the svelte Mr

"- Scala had a chunk of the AT stand for its

renowned demonstrations of Scala's abilities

and also had its own stand showing and selling

MM300 at ridiculously low prices, along with a

collection of Scala merchandise including polo

shirts and a Scala 'executive toy' kind of thing,

Anybody in the market for a CD-ROM or two

would have been well advised to visit the Epic

stand or EMC's where collections of clip art.

fonts and images were being snapped up at a

expected.

Perry himself.

based on its ladder logo.

Photogenics2, a new version of the best-selling image processing program. Bittlersoft was sorely missed since there was no other apphics card reseller we could point our punters in the

Bittlersoft was sorely massed since there was no other graphics card reseller we could point our punters in the direction of, and Silica didn't show up either to sell its wide range of Amigo products. All I can say is that Silica must be kicking itself now given the attendance and the amount of money floating around at the shore.

and the second s

 Bruce Lepper editor of France's leading Amiga mag, and Gray Perry modelling one of the D0xus 5 T-shirts we have to give away

fair old rate of knots. Two things that somewhat surprised me at the show was firstly the fact. that people were actually attending the show that didn't yet have any sort of computer, and they were asking whether the Amiga still represented a good purchase. I'm very pleased to say that in all the cases presented to me, I could wholeheartedly recommend an Arniga as being the best choice for the job. The second thing was just how well-informed a lot of Amiga owners are, I mean, I know we're in a limited. close-knit community, but even so. I had dozens of people coming up to the stand asking what I thought of the VIScorp take over, and asking where I was going to the pub that evening so they could grill me further about the press conference that took place after the show had finished on the Saturday.

All in all it was a good show and it was nice to see so many familiar faces (Dan, Ian, Dave, Danny, George, Xavier and all the rest...). I look forward to the next one.



Young Andy Meddock struggled to beet the
Oh No team in our running demo of Worms

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JUST SAY NO TO NON-CUSTOM CHIPS!

Why do so many people insist that the next generation of Amigas should ditch the custom chip architecture in favour of some generic PC chipset and retain only the OS because it "...is the only thing the Amiga has going for it when compared to today's PCs." Well, excuse me, but I would like to remind those who are urging Amiga Technologies to follow this path that the Amiga is not IBM compatible. The Amiga's OS and chipset, and the integration of the two, while left to stagnate over the past year and a half, are fundamentally superior to the make-shift 'architectures' of other lesser computers

POST & PACE

The Amiga's OS is unique in desktop PCs in that it is a multi-processor OS. The whole point of the Amiga's custom chipset was primarily that it takes most of the audio video and I/O work away from the CPU (not merely accelerates graphics as with recent PC blitters). Yet many Amigans have fallen into the trap of believing that technological achievement in computers comes from implementing the approach of developing computers with faster and faster CPUs in the hope that the sheer speed of the thing will eventually overcome the inherent flaws. From the very beginning, the Amiga bypassed this problem, yet many Amigans would willingly abandon all this for greater compatibility with the 'mainstream' of computing.

The following questions must be addressed with an implementation of a PC

1. Would an Amiga retain the unique features such as the cooper, the real-time execution of tasks, the fact that the system manages more than one task simultaneously (something that a PC, Mac or even DEC Alpha machine will never do if current trends in their development are anything to go by), and the fact that the sound channels are completely independant to the point that

they may be utilised simultaneously by different programs? 2. Will the system retain PAL and NTSC screen modes (proven to be a distinct advantage in video), and will the system retain bit-planes in addition to implementing a chunky pixel mode? The distinct advantage of bit-planes is that with one execution a whole screen can be altered. In contrast, with a chunky pixel screen mode, each pixel requires a commarid. This feature is what makes the Amiga unique as a multimedia machine. Finally, Zorro slots should be retained in addition to implementing a PCI bus. Zorro's are more stable and their autoconfig nature is superior to the PCI's 'plug and play' - Roll on Zorro IV! Jay Miner would be turning in his grave with the idea of ditching all that makes the Amiga special. The future PowerAmigas should further the concept of moving away from relying on the CPU. Bandwidth and breaking the 'bandwidth barrier' is the future of computing. Only the Amiga has the basics £ 01702 29588 required for the future of computing if AT doesn't screw it up!

The DMA should be used for everything: from the blitter to the copper, audio video and I/O. The bandwidth of this DMA would well and truly exceed the 500Mb/s limit and would leave the CPU virtually free to merely assign tasks. Slow-down would not be experienced with this bandwidth (even in bitplane modes), and the video should allow a combination of chunky and bitplane on the same screen. There should be greater modularity than the current machines, but with a broad band width future upgrade paths would be assured. Lagree with Ben Vost's other OS and hardware suggestions in the January '96 issue (Make the OS more object-oriented however, datatypes are a good start and generally, further integrate the OS with the hardware, not move it away.)

From what I have read, the successor to AAA (known as Project Hombre) had reached software simulation stage. Surely this could be geared to the PowerPC processors? All should do it right or not at all. The Amiga is only an Amiga if it retains that which makes it special. I, for one, will not be replacing my A4000 if AT develops some 'half-baked' Amiga

Grant Regan, Penrith, NSW Australia

I guess Ben had better reply to this one, as he has all the other hardware/OS letters we have received after our January '96 issue. Perhaps we should think about running a design competition for a new Amiga? Tell us what you think...

Okay. Here's the real problem when it comes to developing the Amiga further. Are you aware that Amiga Technologies doesn't exactly have hundreds of staff to throw at hardware development? Unlike the PC graphics cards manufacturers who can chuck a hundred people at a problem until they overcome it, AT has a very limited personnel budget. This means that perhaps it is time to think about offering a standardised solution when it comes to graphics. There are VGA chips out there that can be programmed for PAL or NTSC compatibility, and there are also chips that can manipulate 3D graphics in the same way the Amiga can handle 2D ones. At the present time, we, as Amiga users, are not using a chipset that has been "_left to stagnate over the past year and a half nothing has been done with it for over four years! That is an incredibly long time in the computer industry, and it is a tribute to the Amiga's abilities that it didn't fail a long time ago with that kind of attitude to

So what can AT do (especially under new ownership)? For a start it should really concentrate on developing the OS, which is already further advanced than others in a lot of respects. OS development isn't cheap, but it's certainly a lot cheaper than hardware development. If AT could concentrate on developing graphics routines for these new breed VGA chips to



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provide decent 3D and 2D graphics, then we would have a great machine for graphics again. If these libraries were also designed to work on any chipset, given a driver, then any graphics card could be integrated into the system, allowing for a low-end one for cheap Amigas to a 64or even 128-bit version for high-end

The other benefit to using standardised parts is, of course, their cost, which would be a lot cheaper than a new Amiga chipset. In principle, I agree that at some point in the future AT (or whoever) should create a stunning new chipset that all Amigans can be proud of, but in the short term, unless machines can be sold, there won't be any Amigas for a new chipset to go into. The libraries idea could also be extended into areas other than graphics, with a similar approach to Apple's, where even text handling can be managed by the system. This way users who felt they wanted them could have 16-bit soundcards, DSPs, highend graphics, all integrated perfectly into the system software.

AMIGA COMPUTING

EXPANDING COLLECTION

In Ben Vost's editorial, 'Killing ourselves', in the May 96 issue (that's issue 11 for the American version), he makes a number of points that I feel need commenting on.

He complains that by 'giving away all this sice. Sostinate' the Aming purchaser is discouraged from buying 'anything else.' Apart from the fact that even the current Magic Pack contains only inse software titles (and therefore a minuscule amount companed to what is in the average Aming sowner's collection), they are not necessarily the best or preferred choice for Amings owners. This, far from taking away 'their incentive to go and spend some more money', this selection of software will encourage more contents to either upgrade or look for an alternative and explore other areas not concerned in the Magic Potter areas the content of the content of the content of whether the content of the content of either upgrade or look for an alternative and explore other areas not concerned in the Magic Potter areas not converted in the Magic Potter areas not concerned in the Magic Potter areas not converted and the Potter areas not converted and the Potter areas not provide and the Potter and the Potter areas not provide areas not provide and provide areas not provide and provide areas not provide areas not provide and provide areas not provide areas not

While bundling software with any computer is a marketing ploy, one should not forget the inextricable link between hardware and software. The debate between the Amiga and PC is quickly ended if you take away all the software – both are useless

take away all the software – both are useless (although the disks can be used as coasters). As to his comments over the 'seemingly endless stream of hill product coverfidor's that regate any influent select, in this be grown to significant factors. Frostly, they introduce the end user to an area from personal produced by the personal

I was initiated into the world of serious software through the give-away of PageSetter 1 (on another magazine, although you did, in fact, put out a demo of PageSetter 2 in October 1990). I then purchased Gold Disk's Office and familiarity with its suite of WP, DTP, spreadsheet and database, coupled with my expanding knowledge, led me to understand my needs better and the limitations of the software.

Subsequently, I have moved onwards and upswell in these areas (although not as far a statubases ga, the Office one still does everything I require Indeed, it could even be said that the full product coverdisks have been rather limited in their use some deliberately to be being fare versions, others by being fare versions, others by being face versions, others by the production of average machine specifications, but they do serve a new production of average machine specifications, but they do serve a new face.

Having owned an Amiga since December 1989, income what areas of the computer interest me and what software will falfill my needs (although software) and odubet convince me that finish which is infinitely superior to my row marginalised version 4). Nevertheless, there are plenty of new Amiga conners out there who are plenty of new Amiga conners out there who are not so use and these disks do provide a window on what can be a very inaccessible and confusion would. Furthermore, it could be argued that these coverdisks stimulate the market and that the very existence of the Amiga is poor of that in what has estimated of the Amiga is poor of that in what has

Y ES, WE LOVE YOU

Like many Amiga owners, I use my machine for a wide variety of tasks from 30 modeling for a Opportuniting, and because of this Itend to end up buying nearly all the magazines dedicated to the Amiga (with the exception of the games-only mags), simply because they all offer something that their competition doesn't.

However certain magazines have started to become stagnant in their originality and because of this I rarely buy them any more, unless there is something essential on the coverdisk.

Amiga Computing was one of the magazines I rarely bought, but over the last couple of months I've been eagerly awaiting its release. Your articles have been interesting and refreshing to read, particularly the Future Investigations issue.

Your writers seem to have a more professional and mature attitude to the Amiga which is lacking from other magazines who have an annoying tendency to put jovial quips all over what are supposed to be 'serious' articles, and I can't help feeling they don't use the Amiga professionally.

Coverdisks are another strong point – in particular issue 98. There wasn't one program I haven't installed on my hard drive, and the Breathless patch was a god send because I don't have a modem yet (you do now though, don't you Mot? – ed), so I can't download patches from the Internet.

All in all, your magazine offers the widest variety, the most professional approach, and the most informative news and neviews. You have a unique formula. Whatever you are doing, don't change!

Most Gorner, Coventry

Ta very much Matt.

T'S IAN AGAIN

My original reservations about Escom still hold good. Amiga Technologies might, at last, be showing signs of some action, but it still seems to me (and I hope that I am not being too patronising when I say that I wholeheartedly agree with the views expressed in your magazine on this matter) that it is all too little and too last

So many other people seem to thick more that All and Execution met lovely for the minuscule morsels of comfort that they have offered to All, that I feel I am going out on a limb when I say I think they are up the proverball crede without a public limb men padget they are slotting into the pro-game — you referred to its arthe Wilder— as the new pompter twestion of the ALDO —— what can also the provide in the

possibility of proper expansion. I refrain from commenting on it's appearance! The 'lower' end of the market, by which I mean the people who only have a very limited budget and are looking for 'starter' entry to the home computer, are already catered for in the Amiga market by the many good offers on the 1200 packs currently available, if you start taking in the 1500-1500 targe as the entry point for a 1500-1500 targe as the entry point for a persist to see that beginners will maturally be drawn to an 'all-nore' PC with a Persissum processor, monitor and around 8Mb RAM running Windows's and with a very much reduced upgrade path for the future. Faced with that kind of a choice, if I have just start for the control of the

the PC.

If they want to attract the already large and decided Arriga community to continue use spending money on things Arings, the use spending money on things Arings, the use of the already of the a

Ian Aisbitt, Bedale, N. Yorks.

It's always nice to hear from you lan, and Ben thanks you for your kind (unprinted) comments on his ascendancy to editorship. We both hope you will continue to favour us with your pointed and interesting letters.

As it stands at the moment, I just wonder how many other people reading would buy any of the Amigas as a first computer now, if they didn't know anything about the respective merits of the various different computing platforms? been some very troubled times. There has been a distinct lack of corporate confirerquire), been a distinct lack of corporate confirerquire), been in the Amiga for some time and while it is not a sinking ship (just listing bet use, being use to be the ship of the ship assengers to do the bailing out while this no a. California and criver takes to the lifebbasis.

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Lagitan and crew taxe to the refeboats.

Personally, features it have all that need, I prefer coverdisks that contain utilities (one small program that sits in your Wildsartup drawer is better than a full program that sits in the bottom of your computer desk). Nevertheless, not everyone has had an Amigia as long as I have (and I intend to take advantage of Escom's trade-in offer and stay with the Amigia), and those coverdisks do provide, for some, a semibance of stability in unstability in unstability in unstability.

Finally, the rise in the cover price of magazines seems to be in inverse proportion to their size. Your magazine provides the exception. The October 1990 issue (with PageSetter 2 demo on the cover) cost £2.95 and contained 116 pages. The May 1996 issue shows a \$0 per cent increase in price (note to solve the property of the pages).

for an extra disk, six years and a hefty rise in paper prices) and contains 124 pages. Stephen Edwards, Norwich

A well-reasoned argument - so you get the prize - but some points need issue. Firstly, putting full price software on coverdisks may not have been too had in the past when mags could only put one or two floppies on the cover, but now, with more and more magazines offering a CD-ROM version - where there are certainly no size restrictions - the full programs will be just that, with on-line documentation and all the features they had originally. Not only that, but if mags only gave away demos, then just think of the market that could be there for budget versions of serious software in much the same way as games are sold. That way the publisher would still be able to sell their product, shops would stock it, and people who missed out on a particular issue of a magazine would still be able to buy the software, a situation not possible once you have devalued the program to zero. The problem

is that there is no incentive to continue to buy software if it's going to be available for free in a few month's time, and there are still an awful lot of people out there who stick with the coverdisk versions given away.

Secondly, giving software away with computer negates the need for a shop to stock software and peripherals. They can sell the Amiga as a complete solution and never see its new owners ever again. Putting the software that was in the bundle into shops (along with competing products) will ensure that punters will be able to see the choice available to them and pick and choose the titles they want to concentrate on. These same shops could also carry demo versions of the software they sell which could be sold for a nominal sum, refundable on the purchase of the full product But instead it becomes harder and harder to find a shop stocking Amiga software (and the hardware's not so easy to find either) and the situation won't get any better if there is no new software to sell because its authors have bunged it all onto the covers of magazines.

OBSERVATION POINT

Every month I read the letters and the pleas for help with open-mouthed amazement and, quite frankly, you must have the patience of angels.

Month after month you are asked the same questions by those who claim to be regular readers of the magazinic, but obviously never absorb the information contained within. Month after month you publish letters from many who claim to be committed Anignas who delight in ununing Amiga Technologies down for their lack of commitment and marketing.

Please bear with me while I make the following observations:

1. AT purchased Commodore for E10m plus (actually it was £15m dollars - ed) and a similar amount in preparation for purchase. associated necessary deals, setting up production, minimal advertising, not to mention distribution and direct product costs. After a long period off the shelves, spending £20m was a gamble and as an investment With this in mind, AT has to load the price of every Amiga sold. Add a bit for development of new models, a little bit for profit, a wedge for distributors, a piece for retailers, a reasonable royalty for Digita and the other companies in the bundle, and all of a sudden £400 for what is still an excellent computer seems like a pretty

2. Advertising by the big boys over Christmas was tremendous. How can AT competed Without scratching your head can you name the companies who have adverised their UNIQUE computer in the past 12 cm months? Ves: Intel Inside, Pentium, Multimedia, CD-ROM, Encarta, WindowssS-. Walk into any computer dealer or high street box shifter and you can buy an IBM compatible PC (a clone – no research or development costs). Not always the one you have seen advertised because you can bet that every dealer (Escom included) can offer a better deal on a PC with compatible sound card, quad-speed CD-ROM drive, stereo soeakers, blah blah.

3. Christmas advertising did indeed sell a lot of IBM compatibles. AT has a uniperpoduct which must be sold as such. It cannot ride on the back of others and it cannot rely on impulse buys or the recommendation of dealers. Dealers make far more money by selling cheap PCs to lead geneated by the big boys. The big boys make their imnower from business buyers.

Don't let your readership and other loyal Amigans be fooled or blinkered into thinking that a high spend or beforeiting will have been been been been been been been mendation could well be the best way formendation could well be the best way forward. If only 10 per cent of Amiga seess in Britain convinced a friend that the Amiga was the best all round computer, that alone would guarantee a bumper and prosperous was for AT.

.....

You're right about not being able to ride on the back of any them advertising, In fact, the Amiga has never been able to ride on the back of any other platform — but he had of any other platform— the price for being unique, I guess. But I wonder about that 10 per cent Unfortunated about that 10 per cent Unfortunated in the platform of the platform

U NSURE IN THE UKRAINE

considering the lack of any official Amiga epresentative in the Ukraine, please assist ne in contacting Amiga producers with the iim of dealing in the Ukraine.

Gavannaya, 6/37, Odessa 270057, Ukraine Tel: 380 482 230693 Fax: 380 482 259835

We're printing Andrew's address and phone number here in case anyone out there would like to help him...

ORE PRAISE

Just thought I would drop you a note about your Web site. It's really rubbish and I hate its crass mediocrity! No, just kidding, I think the new, improved AC Web site is just great and beats all the others hands down. The Webchat service is a smashing idea that I intend to check on a regular basis and it's nice that the site gets updated so regularly.

One question: why don't you put some of the features and reviews you do online to join the news, etc. No, sorry, I have two questions. I noticed that you did have the Walker pictures up, but when you went to the June update you lost them. Please put them back up, they were really handful.

David Gould, Cold Christmas, Bu

Phew! I thought someone didn't like our site to for a second there! You probably already know that we have the Walker page back know that we have the Walker page back online again - 1's in our new category Stufff. As for the reasoning behind us not putting of someday, it might happen. But for the time being, we are silla print magazine and what we want you to do is buy the collection of perfect bound pages we put out every month.



Workbench Add-On Volume 1



CD-Write



FreshFish 10





Aminet Set 1



Aminet Set 2



Gamers' Delight II



Meeting Pearls Vol. III



Aminet 11



Aminet 12



XiPaint V4



The Light Works



NetNews Offline Vol. 1







SIMPLE QUESTIONS

Please help me by answering a few, I hope, simple questions.

1) I have heard the A1200 IDE can handle 2-3 devices, is this true? If so would it be able to handle an IDE CD-ROM? Ido have some CD Drivers.

An A light in accuming that a HD connect.

Am I right in assuming that a HD connected to a 286 Motherboard would be an IDE drive?
 When I use Urouhack the sizing of some

scrolling gadgets appears corrupt on certain programs, such as MultiView and DiskMaster It. Any ideas why? 4) When I try to load Nemac IV it says "can't

 When I try to load Nemac IV it says "can't locate BM". What is BM?
 After installing some software such as

5) After installing some software such as Debiret M and Gloom, when I come to load it I get the message "Unable to open your Tool Gloom" or whathever title firm using. I have tited using DOSTrace to find out what is awrop, but all get is the message "Unable to find Segmented Image", which is no good to me because I don't know what a segmented image is. Do you know why this software will not run from my hard drine?

Alan Bailey, London

1. Well yes, no and no. Any IDE interface can handle up to two drives daisy chained together, so in theory the A1200 IDE interface can take two hard being connected to it. The problem you are going to have is how are you going to fit how IDE drives into an A1200? There is heaver much two 2.5° drives, unless you fancy having a hard drive dangling out of the side of you machine.

If you have a tower system then you do have the room and can therefore have two drives on your A1200 IDE interface. The problem with IDE drives is that you need to make one the master and the other drive the slave. This imvolves changing a jumper on the two drives, and unless this is marked on the drive you are going to have to ring up the manufacturers to find out what the correct settings are.

If you want to add another hard drive if you want to add another hard drive.

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available to you. You have the usual Squirrel or DataFlyer option that will allow you to hook up an external SCSI drive. SCSI drives also have the advantage that they need their own power supply, so your poor old A1200 PSU is not put under any extra stress.

there are a couple of possibilities

under any extra stress.

To confuse things further there is a new(ish) standard called E-IDE, pronounced e-d-e I think. This is basically an extension of IDE and allows four devices to be connected to it and is faste. It is also the new hard drive interface on the Walker.

extension of IDE and allows four devices to be connected to it and is faster. It is also the new hard drive interface on the Walker. IDE CD drives are another kettle of fish. It is possible use an IDE CD drive with your A1200, but you need an ATAPI device dri-

A1200, but you need an ATAPI device driver. Currently, the only one I know of comes with the AmiCDFS software which is a very good suite of CD utilities. 2. A drive fitted to a 286 board is not nec-

2. A drive littled to a 286 board is not necessarily going to be an IDE drive, but it probably is. The simplest way to tell is that an IDE interface will have 41 pins, and a 2.5" drive has four more on the right for power and a 3.5" drive has four large power pins.

3. According to the UrouHack author, the problem is not with UrouHack but with the programs you are running. These programs do not take into account the possibility that the size of the window borders can



Posing problems and predicaments, painstakingly pondered, probed and finally pinned to the wall

change. Therefore, when UrouHack changes the proportional scroll bar and arrows, these programs don't recognise this and ask the operating system to draw them as if they were the original size. To prove that the author is right, the version of MultiWiew in Workbench 3.1 does not suffer from this problem because the programmers have fixed it.

The latest version 4 of MCP provides 6 UrouHack-style gadgets that are completely 4

4 RM stands for BitMap. The Nemac IV demo is quite large and needs as much memory as possible. This means that if you are trying to run it from a hard drive it is possible that you will not have enough memory available, particularly if you are running a lot of utilities or have a large Workbench running a lot of colours. Your hest bet is to quit as many applications as possible, remove any external devices, and reduce the size of your Workbench screen. On the Nemac IV config window there is an option to use small textures which are of a lower quality but use a lot less memory. 6. We have no idea what is wrong with your hard drive problem. We recently had the same problem with a second IDE drive that we installed on our A4000, and the problem seemed to go away when I reset the max transfer rate and mask to their default values of 0xfffffffe and 0xffffff. However if this is not the problem then I'm not sure what is.



ASSIGNS ASSUMPTIONS

I have been having terrible problems getting the Lottery program from your May issue. I have managed to get the program off the covered have but every time I try to run the program a window opps up asking for me to insert the analyser disk. The same happens when I try to use the install program that comes with K What do I have to do to get the program working?

Unfortunately, the problem you are having is one that afflicts every Amiga user. Many programs have extra files

that they have to access and to make it easier to find them, for the program anyway, an assign is used.

In the case of Lottery, if you drag its drawer into your work drive then open a shell and type ossign anolyser: work-forth its will allow you to get Lotto up and running. You should also add this line anywhere in your Suser-storup so that each time you start your Amiga the assign will be automatically made.

On the Amiga, every device that is con-

On the Amiga, every device that is connected has a cunningly titled device name – for example, the internal floppy's device name is DFO. Along with this, every disk has a logical name, so if you put a formatted floppy in the internal drive you can refer to it either as DFO: or as Empty: which is its logical name. Now, as logical names do not have to refer to an actual physical disk it is possible to create your owr logical names using the Assign command.

When you run a program that requires assigns to be made, if they do not exist the Amiga operating system thinks the program is asking for a disk to be inserted. This is why when you try to run the Lotto program you get the insert disk requester but once the assign has been made the OS is fooled into thinking the Analyser disk actually exists and directs all of Lotto's dish access to the assigned directory.

AMIGA COMPUTING

AMIGA SERVER

I have a question about the Internet and the Arniga. I'm thinking about starting an ISP in my area. Would the Arniga 4000T with a 68060 running NetSD Linki be a reliable setup for running an ISP? I have been told to stay away from using a PC as they start to bog down under that kind of pressure.

The one machine that was recommended.

to me was the DEC Alpha. Have you come across any Amiga-based ISPs? If so, how are they doing? I figured Unix would be the you go because from the experience I've had with Unix operating systems, the Internet facilities are pretty much built in.

If you have any advice for a fellow Amiga user, I'd be grateful.

RSKamina@aol.com

You will be glad to know that there are a number of Amiga's out there being used as servers. One export page servers would be the Amiga that Vapourwaré's support pages are running off which is an A1000T. As well as handling off which is an A1000T. As well as handling and it works as an FIP and WWW server for a good number of people — its statistics show it has quiet a few thousand access a day. I have also heard about an ISP in Sweden run from Amigas.

Generally, it is assumed that the Amiga's own Internet software is very good – apparently the Web server software is excellent, allowing as many user connections as memory permits. Much of the PC's



All this and more is served by a very hard working A3000T

server software only allows up to 256 connections. If you feel easier using Unix software then there is no reason why you should not go that way.

and since the CD-ROM does have the terminations installed, it will become the 'end' device. I have no idea if the hard drive has the terminators as there are none visible and no documentation of any sort came with the hard

drive. Am I required to purchase an additional SCSI controller card for the second device?

Andy Rakozcky, San Volley USA.

andy@bally.com

The cabling for internal SCSI

chains is the same situation as you have with IDE drives — you just need, as you have with IDE drives — you just need, as you have thought, a 3-way 50-pin ribbon connector. In fact, you can have all seven SOI devices connected internally, you just have to keep adding ribbon connectors to the existing ribbon. You can still only have a maximum of seven devices connected to the SOI of seven devices connected to the seven devices the seven de

card be they either internal or external. If yow want to add extra internal drives you will probably find that your main problem is the lack of room. One way around this would be to make yourself a Zoro in shaped card out of plastic and mount the extra drives on this. Internal power isn't really a problem with a 2000 as they have quite a beefy power supply that is more than up to the job.

S ERIAL PRINTER

Last year I bought an A1200 with a Hewlett Packard desk writer ink jet printer. At the time of purchase the chap who sold it to me explained that the printer was designed for use with an Apple Mac computer and he had modified it to work with the Amiga serial port which involved a software patch and a cable modification.

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All worked well until the hard drive crashed. No problem, I thought, as I had backed up the Devs drawer, including the printer driver I had been using. So I reinstalled all the software and set up the system to how it was and set up the system to how it was until I tried the sprinter. Now I cannot get it to print anything, In fact the only response I get from the printer is that when I run Noromit prints ATZ and then locks up Ncomm. I am now wondering if there was

something else needed to run this printer that I did not backup. Do you know of any programs available that will let me use this printer again? If not, do you know anybody who wants to buy a printer for an Apple Mac? S Mahoney, Cosport

As far as I know, all Mac printers are serial, but this is no problem because the Amiga will work with printers conserial interface. Generally with printers on the Amiga, if you have the correct printer driver then you should

have no real problem getting it to work.

I used to have an old ImageSetter.

Il printer, which is a printer made by Apple, and had the unusual round connector that the Mac uses. As the Amiga comes with an ImageSetter driver all I had to do to get the printer working was get hold of an IBM to Mac serial cable, making sure the Amiga end was 25-pin male D plug.

and in the printer preferences set the printer port to Serial. You will also have to set the serial preferences to that of the printer specifications. Finally, there is no need for a software or cable patch, as long as you have the driver, and I think any HP

desk jet driver will do. Make sure you set the printer should then work. As Noomm can send an AIZ signal to the printer it therefore shows that the printer is receiving data. One last point. I think it is normal that Noomm locks up before printing as it is waiting for a response from a modem.

SCSI CHAIN GANG

As a transfer subscriber to your magazine from Amiga World, I read all the columns, particularly the beginners corner and ACAS, from which Yes gleaned several helpful tips from these little mines of information. I now find myself needing some of your inestimable knowledge of the Amiga, namely hypo to add a CD-ROM drive to my system which already has a SCSI hard drive attached.

My system is an Amiga 2000 with a CVP-Corce 58030 accelerator (which has the SCSI driver on-board) and a Quantum 580LPS had driver non-board) and a Quantum 580LPS had drive unring under AmigaDOS 3.1. The CD-ROM drive I purchased is a Sony CSD-7658. Both the CD-ROM drive and the hard drive are internally mounted – the hand drive is on the controller card and the CD-ROM is mounted in the 5-1/4" drive buy.

My question is about the cabling required to connect these devices to the GVP controller. Is it necessary only to have a 50-pin ribbon cable with 3 connectors attached, or is each device supposed to have a second connector for 'daisy-chairing' to additional devices? Neither the GVP manual nor the Sorm manual is clear on this point.

If just a single cable with three connectors is the answer, I can make the cable myself. I understand about the terminating resistors,

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MUI MADNESS

As a beginner on this system, could you give me some guidance as to where I am going wrong and to help with the problems I am having?

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1) I recently went from MUI 2.3 to MUI 3.1 and am having a lot of problems trying to get it to work. I have moved the MUI icon with the "?" symbol to my prefs drawer and assigned MUI to my Work partition but nothing seems to be working as before.

I used to have an icon on my startup screen called MUIEnv which housed all my system variables, including my Mosaic settings. On startup I am getting the message "MUIEnv failed to return should I wait some more", and if I cancel this requester it comes up with MUIEnv failed.

When I start Mosaic I get the message falled to create appiour* which also happens with MetaMail and MetaTool. Where should the Mail Icons in the freshly created MUI drawer be put, e.g. MUIPrefs to Workbench: Pets drawer? etc. I am informed by machine when I tyto start some applications that require MUI 3 or above to run the applications. I have installed it so why do these

requesters still appear?

2) Where does MetaTool belong and how do you set it up?

3) After upgrading my Hard Drive from a

120Mb 2.5" to the 3.5" 540Mb F-IDE Seagate one every 20 or so switch ons 1 get a loud blast of music followed by an arrow formed into a triangle appearing on my scneen with the wording 'OPTIMISED FOR BEST WORK.
BENCH PERFORMANCE' below the arrow. In both or the bottom left-hand corner of the screen the Oolby trademark appears with the wording 'Optimises' or the screen the Dolby trademark appears with the wording 'Dolby Surround beside it. I have to switch oil

system.

software

and start again when this happens. Where does this come from? Is it a virus of some sort and how can I get rid of it?

4) My monitor is the Commodore 1084ST, and on the front there is a switch for RCB or CVBS-LCA. What is this for? Can I use it for a better resolution? At the moment I use the Amiga's Video output with the switch in the RCB position.

M Parker, Tullibody

1. It sounds like you are having a right barrel of laughs installing MUI. Firstly, since version 2 of MUI all the relative files are kept in a single MUI directory, and

files are kept in a single MUI directory, and two very important assigns are made so the operating system and MUI programs can find all the right files.

If you have kept things as they were from the original installation, when you install MUJ it simply renames the old MUJ directory to MULOI and creates a new one with all the correct new files. If you have indicided about with the earlier version, perhaps moving library files out of the drawer, then you are going to have problems. Your best bed in to go through your user-starting MULOI and remove any lines mentioning MULOI and remove any lines mentioning MULOI and you should remove these lines and everything between them.

You now need to go through your system and delete the old MUI drawers and any of the files you may have moved out of the original drawer. Once you have done this, reset your machine and reinstall MUI. This will make sure all the assigns and files are correct. If you now want to move the MUI.

acas

Do you have a problem? Do you sometimes find yourself poised over your Amigu with a see In Mond, spooting perfossity at the Stabboan reliated of your software. Well, calm down and swap the are for pen and paper, jot down your problems, along with a description of your Amigu setup, and send it of Amigu and send it of the Amigu and send it of the Amigu Amigu and t

preferences into your Prefs drawer that is alright.

Some people have reported problems trying to run MUI programs after installing MUI 3. This is probably due to incompatibilities with older preferences, and you should probably delete the MUI drawer in the Envarc directory. Open a shell and type delete everycrmgi.

 MetaTool is a stand-alone e-mail package, and before you can run it it requires a number of environmental variables to be set. This is normally done for you when you use AmiTCP's startnet script or most of the AmiTCP front-ends such as AmConnect or AmiTCPHelper.

Once you have extracted the MetaTool archive there is really no other installation needed, as long as the environmental variables are set correctly with the SetEn command. The only thing you may have to change is the MailCap text file. This tells MetaTool which programs you want to display as different filetypes. Herefore, you may want to change the default MultiView entry to FastView or whichever program entry to FastView or whichever programs.

3. The program that is causing this annoying screen to appear is the MagicWB-Daemon line in your startup-sequence. This is the program that makes sure your MagicWB icons look correct on screens with more than eight colours. Unfortunately, the programmer took it upon himself to add that little extra.

vou prefer.

On most machines this does not crash it but it does hold up the boot process and is very amonying. Just delete this line and you will not be troubled with it any more. The down side is that you need a replacement program to remap the screen colours when you change the screen. MultiCX is a good choice and gives you a shed load of other features in to boot.

4. The CVES-LCA is there if you are using a

4. The CVBS-LCA is there if you are using a composite input which means you cannot get any better picture using it. If you select it when using an RGB input you will just end up with a blank screen.



Gro Listviews

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MUL man





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ENCLUNTER

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Worthy of mention but unable to squeeze into the packed PD pages this month is the Icons, available from 17 Bit Software (disk depicting practically every major socret Rugby strips. Whilst scores of uses for colossal amount of effort has gone into

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Add some colou to your Workhees Icons... and then wonder why you

Dave Cusick finds out which PD and shareware programs cut some rug this month

IME & TIME AGAIN

Since I reviewed Taskbar 4.29 last issue, author Robert Ennals has continued di off it at a phenomenal pace. At the time of writing the current release availa-familiared from an Polibray neary out is extension 5.2, which features a variety of the same new features, such as a tidler display and the option of a mindown sowned by certain tasks. If you are a trakshar fam and you have interned you can keep up with the latest developments at http://membes.a-formail.rukshar that.

COLOURS

Programmed by: Carsten Magerkurth

Described by its author as blending elements of classic games such as Breakout

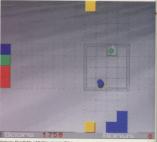
It's rather difficult to describe in words, but a quick glance at the screenshots should help you understand what's going four platform in the middle of the screen. must shoot balls at advancing rectangular blocks. These blocks may be one of four colours, and your sprite itself can only depending on the colour of bell you are fir ing at that moment. You can change the ball colour by bouncing it off a block colour will swap colours with your ball. With me

you destroy lines of blocks of the same deliberately change the colour of certain that you can destroy them together and

If you didn't understand a word of that about Colours is to get hold of a copy. It can hold the attention for hours - and

that's not just because individual games can last for ages once you get the hang of ticularly apt sound effects, and copinus quantities of addictiveness. As an added

bonus, Carsten is offering Amigi Computing readers a vastly improved n on-PD version of Colours. All you have to do to obtain a copy is send a blank disk to him and state that you read the magazine.



CHARLIE J COOL

Programmed by: Neil Cousins Available from: 17 Bit Software

This superb platform romp was originally due to be released as a commercial product until publishing problems got in the way. It's now resurfaced as a shareware product, with this demo version giving interested garment, the chance to decide for themselves whether to slash out a tenner on the complete product which features 28 levels of hugely entertaining runny-jumpy action. On this evidence, Mr

Cousins should be getting a fair few takers. The objective on each level is to collect a hidden key and then reach the exit. Along the way there are the usual nasties to avoid and coins to collect, and plenty of platforms to leap between, be they floating in mid-air,

lave to

lodged in handy trees, or moving between bits of solid ground.

Charlie J Cool doesn't pretend to be anything stunningly innovative, but it's a polished product, with beautiful graphics and suitably cheesy sound effects. It's been a while since a decent Amiga platform game appeared and this one most certainly fits that

There are two flavours of Charlie J Cool, one for all Amigas and another for AGA machines, demos of both being included on the disk. If a strongly recommend taking a look, because this is just the sort of absorbing action adventure keen gamers will be looking for.



Costing only a tenner to register but more polished than plenty of commercial offerings, Charlie J Cool must surely rank as one of the best value shareware games

TALKING TO CLARRY

FINAL FRONTIER #9



Jim Davidson. The Trek Art section includes a few decent images, which appear to be the work of some industries lightfetve-owing fars. There's even a convention section, with reports of recent convention section, with reports of recent sort of person who enjoys nothing better than attending seminars on Kingon battle tactics and dancing the night away in a disco full of popole wearing wardy costumes and latex mask, then this section of the magazine will prove marvellous

This issue is rounded off with a 'Generation' movie special, including write-ups of everything from the film itself through to the soundtrack album, images

film itself through to the soundtrack album, images based on the movie and so on. Whilst to non-Trekkies such as myself the whole thing is vapuely bemusing. Final Frontier would

appear to cater extremely well for those whose life revolves around Star Trek in its many incamations and for those folks I'd highly recommend getting hold of a copy. And possibly a psychiatrist, too.

Unsurprisingly, given its title, Final Frontier is a disk-mag dedicated to all things Star Trek related. Issue 9 is packed with articles, is beautifully presented and fills three disks, so Trekkies are in for a real treat.

There's Trek Fiction, variable in quality but always.

There's Tek Fiction, variable in quality but always featuring the famous characters from the various VT series, especially The Next Generation. A particularly light-hearted inclusion here is The Lost Episoded in which the crew of the Enterprise employ Microsoft's Windows to great effect in attempting to cripple the powers of a Bory starthip, but are then threatened by the entl and extremely angry forces of the sinister BIII Cates.

There are also reviews of new Trek books and videos, a look at the latest developments in the



Hey, some people genuinely enjoy reading this kind of thing...

AMIGA COMPUTING

MAGIC SELECTOR V1.8

Programmed by: Owind Falch Available from: KFW=II Software Disk No: III144

Magic Selector is designed for users of Magic Workbench who are looking for a little variety. It can be configured to load different MWB set-ups every time you reboot. either by working through a sequence or by selecting one randomly

It is also possible to choose to have a sound sample played on booting, so, for instance, you could receive a personalised welcome message from your machine every time you turn it on

Magic Selector is supplied with an attractive Preferences program which uses the ever-popular Magic User Interface. Setting things up to suit your tastes is a speedy process, and once you've dragged the program file into your WBstartup drawer, every time you boot your machine you can be greeted by a different Magic Workbench. Admittedly, it is possible to go complet-

ely over the top when customising your boot-up procedure, a shining example of which must surely be Andy Maddock's Macintosh in the AC offices. It's never without an amusing, hard drive space-wasting intro sequence of some description, not to mention some garish desktop backdrop without any of the subtlety of the attractive MWB designs. But this sort of thing

definitely impresses people and as suc Magic Selector is surely another string in the highly configurable bow that is the Amigi Workheach

with

agair

ish



isn't as ugly as Andy Maddock's and add a few hoot-time ontions

MOS COMPILER

The first in F1's new series of 'Commercial Ware' titles the often difficult to obtain AMOS Pro Compiler has been licenced from Europress Software. It consists of the soft ware and manual previously contained in the last Europress release (v2.0) but comes in a plastic wallet instead of a large box, and costs just £14.99 as opposed to somewhere in the region of £35 The Pro Compiler can turn even the most sluggish of

Amos programs into fairly nippy pieces of code. It actually works with every flavour of the programming language, meaning users of Easy AMOS and 'Classic' Amos can also reap considerable benefits from the software. The results it produces are leaps and bounds ahead of those the original Amos compiler is capable of

The three disks in the package contain version 2x of the compiler, an update to bring AMOS Pro up to the same standard, and some helpful examples and extras. The installation procedure is adequately explained in the manual, and a tutorial then leads you through some of

Using the Compiler itself is extremely easy, with the

program having a distinctive clunky but colourful inter face. Your efforts can be swiftly compiled either from the editor itself (if you're got AMOS Pro) or from the Workhearh (with Classic Amos or Easy AMOS, or if you're low on memory). Pro users also get powerful additions like the option of squashing banks using the popular Power Packer library directly from the editor, and the facility to read instructions from the Shell command line that launched your program.

Various other handy extras add to the value of the package - for instance, it's now possible to create a booting disk for your creations with the minimum of fuss rather than having to copy various essential files across by hand, a tedious task at the best of times. And best of all the amos.library file (which used to be included in every single compiled Amos program, resulting in some huge compiled files for even relatively simple programs) can now be stored in and read from the Libs: drawer as with any other Amiga library

Overall then, whilst it's of most use to Amos Pro users because of the extra packing commands, the Pro Compiler boosts the power of this programming language considerably and should have a space on every Amos coder's hard drive

ATOUR THROUGH TIME

Programmed by: Mike Austin Available from: F1 Licencewar Disk No: F1-126

Inject a bit of with the exce

SLIDER 2

as such

the Amiga

Programmed by: Joseph Carlson Available from: 17 Bit Software Disk No: 4045

Remember those little sliding puzzle games that used to knock around a lot? Sometimes immensely frustrating, they at the very least used to help white away long journeys and they were good for a quick fiddle with during bored moments every now and azain.

This is an extremely accomplished computerised version of those puzzles, with stylish graphics and some excellent sound effects. Computerised slide puzzles could simply not be done any better than this.

You can choose various pictures which will be split up and scrambled by the computer. The simplest picture is merely a numbered gizk, but if you're after a greater challenge you, can choose to play with country scenes, teddy bears, and all manner of other images. Too can use your own images too, subject to cer tain restrictions set out in the accompanying "miggacide" and all properties of the accompanying "miggacide" colcumentation.

A puzzle may be split into any number of squares (or rectangles), from four to sixtyfour, and you can play with or without guide lines identifying the edges of blocks. There's a



what it is yet? etc

leaderboard displaying the fastest times in which the puzzle has been solved, but if all else fails the computer can be told to solve it, which it will then proceed to do in an embarrassingly short time. Slider might not exactly be a revolutionary gaming experience but it's an enjoyable way of passing the time which deserves a place on every hard drive.

PRO ORGANISER 1.2

Programmed by: Ali Prior Available from: ProSoft

After the success of his excellent series of prediction programs inducing Pro Gamble and Pro Lottery, Ali Prior has moved into the world of Amiga utilities. It seems there is nothing this man ran do badly, because Pro Organiser is one of the best programs of its kind that I've seen for any computer. It's incredibly easy to use, tastefully and intelligence by designed, and brimming over with

Keep your life in order with the excellent Pri Organiser

Everything you'd report to find in a standard devidency dainy is beautifully implemented here. Appointments, ambiensaties and so on can be quickly entered, and frelephone numbers and addresses can be stored and searched either by entering a name or by simply checking and addresses can be stored and searched either by entering a name or by simply checking for the control of t

cgain intersace in enaces are program a joy to use. There's even a guided tour which points out all the features, and a handy Bubble Help option like that featured in MUI applications.

Pro Organiser is, of course, hard drive installable, although it works drive installable, although it works obtain the full version you'll need to register, but a free demo version is available which you can obtain by sending a blank disk and a stamped self-addressed envelope to ProSoft.

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So much to do, so little time B LUETO NIC

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(Icl. 09737702718)

Seasoft Computing

Land, Littlehampton, West Sussex

(Icl. 01803 560578)

he arrival of Arriga Technologies' Surfer pack was quickly followed by HSod's Internet solution, and this led me to think that it would not be too long before there was a good old public domain Internet pack. And the first to hit the street is from Oction PD.

Depending on your situation, Online PD has a number of options you can choose. For the first timer they sell a 2.8.8 Modern along with an 18 disk Internet and 8BS starter pack. For people who alleady have access to a modern, the software pack can be purchased separately – either the full 18 disk pack or a cut-down 12 disk version that has only the Internet software.

disk version that has only the Internet software. The actual modem you get is a new model from Datatech and is your usual high speed 28.8K modem. Under good conditions you will get binary transmissions of just over 3K/s, and text can typically be received at 4.5K a second thanks to the normal MMP data compression.

As with most new moderns the Datatech can transmit and receive both class 1 and 2 faxes. Luckly, AmigaFax is included with the software pack so you can take advantage of this from the start.

APPROVAL

The modern itself is very small and veril styled, apart from the cheey'r and above label stack on the top of it. There are the usual posts in the modern by the stack of the s

The software pack that comes with the modern does supply you with all the programs and files you need to get up and running on the Internet or 885-ing. The most important part of the software pack is the AmiTCP v3 archive. This comes on two disks and is archived, and you

VOYAGER
(100)
The Vogen Via Droses
(Vandamenter of the authorised

Once you have got AmiTCP running you can try out the Web and get

Living with Mr Modem Arniga Computing takes a look at a cheap alternative to getting connected

will need to estract both parts of the archive yoursell into the AmiTCP drawer. Once installed there is AMosaic and an early demo version of iBrowse which you can use to try out the World Wide Web. GRn is also set up for accessing

There are quite a number of other programs such as AmiTCP front-ends and on-line meters to show how much money you are spending. There are also a couple of terminal programs with which you can use the rather overlooked area of bulletin boards.

If you are going to install all the software you will need a good few megabytes free on your hard drive, and if you start going mad down-

loading programs and files then something more in the order of 201th fire would be value. As a way of getting into Comms, the adual pack has both good and bad points. It gets off to a great start with a very good modeen at a very competitive price. The adual software has mixed blessing – some is ready to run while some has to be extracted from floppy by hand, something notice users are giving to straggleasking the user where they want the archive extracting to does not take up much room, and think some sort of accompanying documentation should have been included.

been much appreciated. An AmigaDOS script

JARGON

INS - Bits Per Second, a measure of how fast a transfer is, using the numbe of single bits received a variety

cond Another measureent of transfer speed, this tra measuring the number (butto moreured a second

an Ango implementation of a 109/91 stack that allows your Amigo to communicate over the Internet

it slow really

- Bulletin Board System

Ease of use 7: Implementation 8: Value For Money 9: Overall 8:

ESERVATION FOR MR MODEM

Overall, most of my reservotions are about the software in the pack, such as AmiTCP. This is not Online PD's fault as this is really the only available choice, but I think it would have been better if Online could have put in a little more help for the novice user, for which there are a good few potential problems:

The modern, on the other hand, is excellent and very well priced and you could start using it for BBSing straight away using either IR Comm or Dream Term. Finally, as a bonus you can set 10Mb worth of free deparations from Only to BDS building based on the Dream Term.

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SCENE STORM

Spannialis Spannialis STORI

Wool How we long for CDs like this. Oh, we love them. They're just the best. If you study the form of the demo directory on Aminet you shouldn't bother thinking about a purchase here.

The CD is crammed full of demo-type productions from 1995/96. The difference this time is the fact that rather than viewing other people's work and usually saping "Oot that's nice", you can now sit down and make your own as a full programming suite is provided on the CD. Nice.

All the latest slideshows, music disk, magazines and turilorial programs make an appearance, so the whole package is perfect, and the processor of the whole package is perfect to the solid personal processor to the solid personal person

This is a car dono, feature a car. A red of Sports I think Nice ion't II'.

Bottom

PRODUCT	DETAILS
Product:	Scene Storm
Supplier:	Active Software

	S		E S	
Ease of	use			

Ease of use	87%
Implementation	83%
Value For Money	89%
Overall	89%

Hey you. Look at our

CD-ROMs this month.

Our round-up rather surprisingly

features no

pictures of birds.
Oh no!

Laserguidance

MAGIC WORKBENCH ENH



When you use Workbench all the time it can be quite annoying if you have to use it while it's bland. So what can you do?

Well, if you buy this CD for a start you will be able to 'tidy up' your Workbench using small hacks which let you after the way it looks and feels forever. If you are still using operating systems 2.04 to 3.1 then you really must think about Magic Workbench.

For example, after taking advantage of using this CD on my A1200 I had to test out the compatibility of a piece of software with the A600. When the HD booted up it looked so bland it was unbelievable. I found I was using quick keyboard shortcuts for programs that weren't even installed. A



Hang on. When I clicked on the directory 'Birds' I was expecting some swimsuit action. Darn'

MOVIE MAKER: SPECIAL EFFECTS VOL 1



effects which will teach you how to create fake wounds and all things movie-like.

As this is the first volume I assume all the special effects are pretty basic, so you won't be creating any multi-million pound explo-

The whole interface is designed around an in-car cassette deck (?) which is supposed to be a video – I'm not sure about this. On top of it is a massive television on which you can

This is entitled 'How to use a pencil'. Nah, only kidding - it's about storyboards, so there you so

effect methods. They are as basic as designing storyboards and generating ideas but there is also the more physical side such as making fog and fake blood. The problem with the CD is that the actual

The problem with the CD is that the actual content is not as informative as it could be. I know that if I sat down ready to start a film production it's just common sense. Making films should be a free experience by learning from your errors — if you went by the book you'd never discover anything new.

However, if you are into movie making it is quite handy to see the CD present you with ideas for making props and materials although there's nothing you wouldn't find in a good movie book.

Bottom

PRODUCT DETAILS

Product:	Special Effects Vol
Supplier:	Epic Marketing
Price:	£29.99
Phone:	0500 13148

S C O R E S Ease of use 85%

Ease of use 85% Implementation 89% Value For Money 88% Overall 88%

It's usually a childhood dream to be a movie maker, standing in front of an all-star cast ordering them about like slaves. What a life. You too can be the biggest thing to store it to Hollbarrod with John Pusternal's report



HA NCER

nightmare scenario, I trust you'll agree.

The CD contains new icons, textures, back
lide. A ground patterns, games, comms, patches
sounds and everything you can possibly thinl
of involving both the look and feel of
Workbench.

Workbench.

Why should you stick with a grey background when you could have leopard skin!
Buy it today.

Bottom

PRODUCT DETAILS

Product:	Magic Workbench Enhance
Supplier:	Epic Marketing
Price:	£17.99
Phone:	0500 131486

JCORES

904
894
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OOLS UNLIMITED: BLANKERS Tools Unlimited is a CD which contains an utilimited amount of tools



the talks all the time. Great

with some text on to a full scale mega demo-type thing which whird about with a module, scroller and all socts.

It doesn't matter how you look at it — each one gets blander and blander every time you leave your Amiga, and if you use it in the office file us, when you return you can guarantee you monitor has either been switched off or the sound is turned down. And that's because screen blankers are bland. Oh, alinght, if you're desperate for some kind of blanker's guested two check out the Aminist reinis because wo

will always find something on there as well as tons of other hacks. In my opinion a CD full of blankers seems to be a waste of money as you only end up using one anyway!

Most of the packages use the same principals behind screen blankers - rarely do we get an original one

Well, that's not strictly true as the CD can only hold around 640Mb. So why on Earth is it unlimited? Oh well, never mind. This edition is based around the pretty much pointless screen

blankers for computers using a high screen resolution which, if left continuously on-screen for a certain amount of time, would result in that aparticular screen burned onto your computer. So basically you would always see that screen faintly in the background. This CD contains loads of blanker packages to use for blanking your

Phone

Bottom

Product: Tools Unlimited: Blankers Supplier: GTI Price: Etba

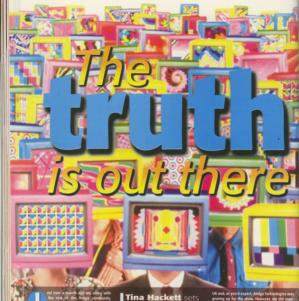
\$ C O R E S

Ease of use 86%

 Implementation
 84%

 Value For Money
 N/A

 Overall
 81%



out to see who

VIScorp is and

what it wants with us?

WHO IS VISCORP?

ViScorp is an American company founded in 1990. Many are past engineers from Commodore and others have vast experience in the interactive TV industry. We take a look at some of the key players.



CORPORATE CAPERS

William Buck - Chief Executive Officer

William Buck has been in the role of CEO since 1994. He has a long history of involvement in Interactive Television and worked to from IMN with NTN Communications, a top interactive television company. Buck also worked for another pioneering interactive television company. ICTV, where he was five President for business development.

Curtis J Gangi – CEO

Bringing 16 years of experience in consumer electronics to his roles, Gangi worked on the CDTV project for Commodore International

Roger Remillard – Founder, Inventor and Member, Board of Directors

Board of Directors

Mr Remillard is one of the founders of VIScorp and is the inventor of ED, the interactive TV. He has more than 10

We put VIScorp's Don Gilbreath, Vice President of Engineering, on the hot seat to answer all our pressing questions.

If VISCorp's main aim is set-top boxes, why has it bought the whole company when a licensing agreement to use Amiga technology was already

It's part of a strategy. It's an economic decision. On the flip side, Escom was clearly having a tough time and VIScorp may have had an undesirable partner.

So Escom was up for sale then?

No, not so much up for sale but it had had a tough time, that was clear. You see, there might be people that ViScorp would not want to be forced partners with and get the licensing from.

The estimated figure for the purchase of the company is rumoured to be US \$40 million. Why this much when Escom only paid \$10 million)?

Both those numbers are crazy. Escom bought it at

Both those numbers are crazy. Excorn bought it at around the \$10 or \$12 million figure, although there were adjustments made. On our side the \$40 million – well, there is still some diffigence happening. We can't say much about the deal but it's not a case of write a cheque for that amount. Don't forget that the inventory is more now too.

Where will Amiga Technologies' main Headquarters be when the deal happens? It's a little early now. Right now ViScorp is very decen-

It's a little early now. Right now VIScorp is very decentrained as a company. There are facilities in Japan and all sides of America. Clearly it will have presence in Europe because that's where a lot of the activities are but it's not clear at the moment.

Will all development take place in America?

VIScorp actually has simultaneous development going on in Japan as we speak. In the States it has some chip work. VIScorp wants to do stuff where the most experienced people are.

Can you confirm that development of new and

year's experience of research and development in fields including telephony, television and computer communications. Before VIScorp, Remillard was a consultant in the communication industry, specialising in two-way rapid cellular telephony and data-radio communications.

Jerry Greenberg – Chairman of the Board of Directors Greenberg is the co-founder and major shareholder of VIScorp, From 1982 to 1989 he was the sole shareholder and President of Leader Communications, the Chicagobased cellular phone and two-way radio company.

Also:
David Rosen – Vice President Business Development
Florine Radulovic – Director of Communications
Christa Prange – Controller
Raquel Velasco – Director of Sales and Marketing



existing Amiga models will continue?

Absolutely, we can't say what exactly but by the 19 May the strategy of how this will happen will be opened up.

Can you reassure us of this when you state the main aim is set-top box technology?

Well, we would hope that Escom has kept the highend going, the computer side, because that draws to each other – the set-top business, the development and high-end community all work together as a triangle.

What is VISCorp's company background? Has it always been its ambition to create set-top boxes with Amiga?
As of 1990 that was the intention, that was always

the aim.

Can you give me a profile of who's working on the

Amiga set-top Box project? What are the past projects?

On the engineering side, the project involves many of the same people involved in the CDTV philosophy. Many of that team are here at ViScorp doing the same vision in the same way that the CDTV was a philosophy change for Commodore. We, as a group, have always left that hardware needs to be up there



in the masses and the developers are the voices.

architectures and Chip Sets.

Are there any other companies trying to do this? There's a lot of noise. In America alone there are 15 or 20 set-top projects with many different

Who would you say are going to be your main competitors?

I'd say Philips might be the closest. It has a low-cost implementation of electronics, a base of software and knowledge of television.

How soon do you think there will be a market for this set-top box? Does it exist already?

In some areas. The set-top box is not just a product to us, it's a philosophy. ViScorp has a target in the better television and better telephone business and it's to be friendly in all these different networks.

How soon will the average family be able to take up this technology? It's a cultural thing and in some markets, it's ready now.

How much will it cost?
It is cable and it will actually be leased and not sold to the user. It is subscription based – say \$20 per month which will include the services.

month which will include the services.

Is it going to be well publicised that the set-top box uses the Amiga?

box uses the Amiga?
Yes, if we're successful we hope the Amiga might be considered another Dolby.

considered another Dolby.

Any final comments?

As a group ViScorp believes in the Amiga. It is not

As a group viscorp believes in the Aringa. It is not buying this on a whim. This group is looking on this as a way of changing the industry. A way to bring this back to life. This may be the last breath the Aringa may have in this world.

INGINEERING EXPERTS

Don Gilbreath - Vice President of Engineering

Don Gilbreath is best known in the Amiga world as the designer of the CDTV, Commodore's innovative but ill-fated consumer multimedia player. He also has 17 years experience in "informational sales" and consumer market develop ment in general, and has designed and developed over 30 products including musical instruments and other multimedia products. He is highly rated as a manager of internation-

al engineering teams. From 1980-91, Gilbreath worked with Commodore International as Manager of Consumer Products and then Director of Research and Development. He also developed a 1200 bayd modem and laser disk authoring system for the Amiga. His educational background includes a BS in Rinmedical Engineering

Carl Sassenrath, Director of Software Jim Goodnow, Senior Software Enginee Louise Carroll, Engineering Administrati

WHAT DO THEY MAKE?

The ED - Electronic Device

According to VIScorp, the ED is a sophisticated cable settop appliance. Designed as a cost-effective solution, it is used in conjunction with a TV set and is connected either through a telephone wire or 'wireless' Radio Frequency connectivity. The package incorporates a modern, video and audio circuitry and a controller. VIScorp states that the ED will deliver services that are either not widely available or can only be accessed by an expensive high-end PC. In the future, it hopes to offer home shopping, educational and games programs, fax facilities and e-mail. It also provides a solution to every parent's worry about what their children watch on TV with a screening capability

The couch potato is further catered for by on-screen telephone dialing which allows the user to dial up a tele phone number with the remote control. If caller ID is available, it checks the incoming caller against its database and, when recognised, scrolls the name up on the screen. Households will also be able to sort out their finances and do some home shopping via the television. A magnetic card stripe reader means that credit cards and debit cards can be swiped for transactions. Debit cards can also have funds put onto it from the user's bank. The ED system can also give you interactive

information to what's on TV that week which is also customised to the local area. Whether this future holds more re-runs of Dallas remains to be seen though

The U[T] (Universal Internet Television Interface)

The UITI also connects to the ordinary TV set and is a dedicated Internet and World Wide Web access device which comes with a 14.4 modern. The user will be able to use the Web and the information will be displayed within the confines the TV display allows, i.e. it will be shown with TV-quality resolution and local memory storage thought to be 10Mb to 20Mb. A remote control will be used, although VIScorp intends to bring out its own keyboard in 1997. The UITI will also provide extended functions within the current Internet programming language which would mean better quality TV programming and accelerated graphics

What has been in the foremost of many people's minds who are considering home shopping and banking is the safety of transactions over the Internet. The UIT takes this into consideration and provides for the current standards of encryption. Existing Amiga programs can also be downloaded and used, plus it allows video capture from a video camera, video or TV and lets the user process graphics and send them back over the Internet.



HE FUTURE'S NOW

Well, not far off anyway. When people normally talk about their visions of the future it all seems like pie in the sky. But VIScorp, far from merely speculating on what the home of the future will be like, has a production schedule that will mean these promises could be a reality in many homes before the turn of the century

For 1996 THE UITI

For the US market (NTSC version) For the European market (PAL and SECAM versions)

For 1997 THE ED For the US market (NTSC version)

For the French market (SECAM version) functionalities into a standard TV set. For the US market (NTSC version)

'Smart' Television which incorporates the UITI and ED For the French market (SECAM version) For the Romanian and other European markets (PA)







Labs

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SparksExclusive	£140
Surface Pro	£85
FX Kit for LightWave	£34.99
Wave Filter	£179
Logo Wizard	£299.99
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Fiber Factory Exclusive	£99
Hollywood FX	£140
Motion Master IExclusive	£99
Motion Master IIExclusive	£99
Wavemaker	
Interchange Plus V3	£495
Humanoid New CD Rom - all platforms	£170
Forge	£POA
City Builder	£95
LightWave 5In stock	£1150
Power Macros	£90
Batch Factory	£59
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Space essentials	£7
Interior Design Collection	£220
Scene Machine (Wavemaker for PC)	£250
LightROM 3 - 3CD collection	£39

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Digital Data labs are dedicated to the art of 3D animation and modelling for the professional and amateur alike.

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manufacturer's availability

Ring (01277) 365249

t always seems the same on the Amiga. You have all these great features and functions and different parts to the operating system, but everything always seems to be halfheartedly implemented. Datatypes only work up to 8-bits, you have a 4.2Gb hard drive limit and when printing you are restricted to either 16 shades of grey or 4096 colours

When the Amiga came out back in 1985 these 'limits' were really revolutionary. I mean you could actually print in colour but back then I doubt many people could afford a colour printer and why would you want to print out more colours than you have on screen? Excuses aside, the fact is it's not 1985 any more and there have been vast improvements in all aspects of computing, including printers, and these restrictions really start to show up when using bubble jet and laser printers

The problem arises from the fact that the printer device that converts the data sent from the program into a form that your printer can understand only works with 12bits - that is 4-bits for the red, green and blue parts of the colour data on screen. Not only does this restrict the maximum number of colours to 4096, but it also means you can only have a maximum 16 shades of red green, blue and grey. Even with dithering this small number of shades is very visible.

NO LIMITS

Turbo Print provides two ways of skirting this limitation and therefore gives you access to full 24-bit printing. One approach provides a completely transparent replacement to the standard printer device so any program that prints does so using the Turbo Print software. The other approach is a print manager program that allows you to load graphics and print them directly

The Turbo Print package comes on a single floppy accompanied by a good quality, well written manual. The accompanying installer script makes light work of setting up the Turbo Print software. At this point you will need to choose which printer you want to use. Along with the generic Epson 9- and 24-pin printer drivers there is a comprehensive range of supported printers including all the most popular makes, along with some of the most recent printer models. The major printers for this software are the Canon RI series, HP Desk Jet and Laser Jet, and the Epson Stylus, along with Citizen, Star and Brother printers to name just a few, and it still supports standard Amiga printer drivers.

Once installed, if you select to run Turbo Print automatically each time you start you computer there is nothing more you actually have to do. Any prints you do now



printing was just a novelty on his HP 550C. Not any more with Turbo Print

Neil Mohr always

thought colour

will be done invisibly through Turbo Print's enhanced drivers. As a replacement to the two standard

printer preference programs you get a single Turbo Print program that automatically starts Turbo Print when it is run. From this you can set all the options you previously could with the old preferences, and more. In particular, Turbo Print gives you much greater control over the printing process such as a better selection of dithers for use in different

On the colour side, Turbo Print has a true colour matching system which means the colour you see on screen is the colour that is printed on paper. There are specific colour

correction tables for specific printers, and along with this you can fine tune the colour correction and colour to grey scale conversion. There is even the option to print off colour separations so you can produce printing plates, or to produce a colour print out on a b/w printer using four ribbons. This operation does not happen automatically and for each separation you have to select which colour you want - this is to avoid problems with some DTP packages

appi

mak

So what about the all-important output? Well speed wise, on my HP 550C there doesn't appear to be any speed increase. but I was pretty much expecting that anyway. However, on colour prints the output is

RINT MANAGER

When printing graphics from certain programs - such as Brilliance - that were designed to be used with the standard printer driver, they still only sent 12-bit colour data to Turbo Print. This means that even though Turbo Print can produce 24-bit output, it will be stuck with the 12-bit data. Even this output is far superior bath in colour quality and general look. However, to get around this sort of problem the Print Manager program is included.

Print Manager allows you to print graphics at the highest quality possible with your print ter because it has be especially written for use with the Turbo Print drivers. To make your life simpler it can accept a good number of graphic formats. Along with the expected Amiga IFF formats including both Ham 8 and 24-bit formats, Print Manager can handle Jpegs, GIFs and PCX formats. These pretty much cover the most common formats Amiga users will come

Once you have selected which picture you want to print, the Print Manager program will generate a preview of what the final print will be like. This can be on any screen mode of your choice. ECS owners will have to make do with a 16 colour screen while AGA owners will be able to use a high resolution screen in 256 colour, and this give a good idea of what the final print will be like. Anyone with CyberGraphX will be able to have a 16 million colour

From within the program you can adjust the brightness, contrast and gamma of the picture. Generally, these are useful if a picture appears too dull or hazy. On a second window you can scale and position the picture as it will appear in the final print

about the final tout can be adjusted from th well laid out preference

HILL OF THE



12

O The standard Amiga printer driver gives very visible colour bands

11

Turbo Print, however, produces a very smooth gradient, if a little seas



Standard colour output is very poor with obvious banding marks









∩ Turbo Print gives you perfect colour, improved dithering and no banding

This

completely revolutionised. The normal Amiga printer device poduces washed out colours, with blacks and dark colours appearing with a very appearing trees the and there are terrible banding problems. The Turbo Print output is remarkable in comparison – colour is spot on with blacks and dark colours looking pure in colour and there is no hint of a green overtone.

The improved smoothing and dithering makes a huge difference and most impor-

tantly there is no visible banding whatsoever. A 256 colour range of black to white produced by lurbo Print comes out as a visibly smooth gradient – no sudden jumps that you got with the old 16 shades of grey. Actual grey scale quality is also improved thanks to the new dithening and Turbo Print's ability to pick out finer details.

All the example prints were produced on a standard HP Desk Jet 550C using normal laser printer paper. This means that even bet-



Anyone even considering producing colour prints needs this program.



RED essential BLA



Times Workbi

PRODUCT	DETAILS
Product	Turbo Print Pro
Supplier	Emerald

	Product	lurbo Print Pro
1	Supplier	Emerald
1	Price	£49.99
ı	Tel	0181-715 8866
١	Sc	ORFS

Ease of use	95%
Implementation	95%
Value For Money	85%
Overall	95%



Print Manager allows you to produce the best quality colour and grey scale prints your printer can

> AMICA COMPUTING JULY 1996

hen the original Squirrel came out it really did sell by the lorry load and rightly so. It gave AT200 and AR00 owners easy access to a fast SCS interface allowing them to use CD Drives and fast SCSI hard drives. Now, HISO

Installation is straightforward – just slot the interface in and run the installer disk. The actual installer has a number of different options that allow you to set up the Surf Squirrel depending on your machine's setup. Current Amiga hard drive users can just install the Squirrel and CD32 emulation software straight to disk.

For people that do not own a hand drive, For people that do not own a hand drive, the installer has a number of options to create boot floppies. These allow you to either run CD titles or boot up a SCSI hard drive all you do not already own an internal hard drive. The SCSI hard drive boot floppy is only needed once each time you turn on your computer because the Squirrel device drives is stored in memory even after a reset.

SPEED TESTS

Speed wise, the Surf Squirrel's SCSI interface is going about as fast as the PC slot can hardle. The Al200's PC slot can transler data up to 3Mb/s, so theoretically the fastest SCSI interface would be around 25Mb/s. When testing on an Al200 with a 40MHz 030, the Equirrel was happly reading at 1-pMb/s, the same speed achieved on our A4000 SCSI interface, which is a marked improvement over the 1Mb/s the old Squirrel could achieve.

As the PC slot does not have DMA, the CPU has to shift all the data to and from the hard drive when accessing the hard drive. Therefore, to a certain extent the absolute speed is determined by your processor, but even so, testing on an A1200 with no



SCSI mounter and the new CD Prefs make

PRICE BUSTER

Currently, HSoft has the unusual after, for hardware anyway, of allowing current Squirrel owners to upgrade for the discounted private (Feb. 1984), and use jeat naming a CD Dhrie then I am not sure whether there would be any benefit in approxime, On the own hand, if you are planning to dod the and rive or currently own one then you will definitely get a speed increase, and if you are a serious commission them the Suff Squirrel will be a revelotion. With a new tougher case and interface you will never represe purchasing a Suff Squirrel.

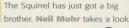
ARGON

Siot – a much easier ay of saying PCMCIA slat ome wise old soul spotte oir PCMCIA slat is hamble say and decided we

IPS - Bits Per Second, a measurement of the transfer rate between two devices. Manly used for modems and serial kink, it say how many bits are transferred a second. Using bits gives bigger end results and makes top-of-the-range modems seem really fast.

brother. Neil M

brothe



and turk

The problem was, there was no CPU time left. If you plan to use the Squirrel with a CD-ROM, a handy new CD Prets program means you do not even have to worry about DOS Drivers because it scars your SSI chain and lists any CD-ROMs attached. All you have to do is click on which one you want to use and click on save.

The major new feature of the Surf Squirrel, and the main reason for the name, is the high-speed serial interface. It is a 9-pin D cup interface, the same type as the Amiga's mouse and joystick ports, and also the normals high that PCs use, so getting hold of cables should be no problem.

The new interface has two major advantages. Fissly it's last. Its to speed is at this top speed is a transport of the second of the second of the 200,400 BPS which is around 286/s. Compare this to the Amigo's standard serial steam, can only just about manage 7k/s. hould also remember that these should also remember that these should also remember that these should also sender only going to be possible if you are sheet detectly linking two Amigo's six Sermet or if you have a special phone line and a modern that can handle this kind of throughput.

In practice, people using 28.8K modern for interesting or 885mg are not going to see speech this high, but even so you will get a hage improvement over the convention of a hage interviewed in the see and a hage interviewed and a hage interviewed and a see a



Squirrel's serial interface only around a third of the CPU cycles are needed on a plain A1200.

CPU cycles are needed on a plain Bottom

REQUIREMENTS ED essential BLACK recommende



PRODUCT DETAIL

Product	surf Squirrel
Supplier	HiSoft
Price	£99.95
Old squirrel trade-in	£64.95
Tel	0500 223660
E-mail hisoft@	cix.compulink.co.uk

S C O R E S

Ease of use	89
Implementation	95
Value For Money	95
Overall	93

o, back when it all started, the SvQuest was the drive to have. with 44Mb cartridges. Bernoulli came along and brought the Remoulli Box to the fray. Only a 20Mb cart. but much faster access and slightly more durable media. The two continued to compete, with the SyQuest overshadowing its technically superior cousin, but then a couple of years ago the big thing was the 128Mb magneto optical drive. Early last year this, in turn, was displaced by the Zip drive, a 100Mb SCSI floppy drive (kind of), only to have SvQuest fight back with the EZ drive (it cost a bit more, but the cartridges formatted to 135Mb). This year nobody's going to want to mess around with a measly 100Mb - they want more storage, they want it faster and needless to say, they want it cheaper than

SIBLING RIVALRY

The first of the year's contenders for remov able media crown hit our desks a couple of weeks ago. The Zip's larger brother, the Jaz drive (where do they get these names from? - ed) is a pretty similar beastie in its external version. It's slightly chunkier and, no, you can't put your Zip disks into the Jaz's gaping maw. One of the main advantages that the Jaz has over the Zip is the fact that it can be ary SCSI ID. unlike the Zip which could only reside at unit 5 or 6. We're actually looking at the internal version in this review, although it has been cased in one of those nice Appledesigned boxes, which works out cheaper than the sci-fi case iomega puts it in. If you own an Amiga 2000, or an A4000 with a proper-sized floopy drive (i.e. one that is actually half-height, not the inch high version). then you'll be able to dispense with the exter nal casing altogether and just shove it in a spare 3.5" bay. Of course, this limits one of the main advantages of buying a Jaz drive that of transportability. Still, if the disks you need to move about are going to another Jaz-equipped machine, there will be no



23660

reason to cart around the whole drive all the time

As it comes from HiSoft, the Jaz drive is ready to roll. HiSoft supplies the Jaz tools suftware a terminator pack to go onto the 50-way Centronics SCSI norts in case it is your one and only external SCSI device, and you can negotiate for a SCSI cable suitable for your needs. If you have a Sovietel or Surf Sovietel you will, of course, already have the cabling you need. There is a disk of software to install. but other than that you are ready to roll. If, like me, you also have Mac emulation at your finpertips, either through Emplant or Christian Bauer's Shapeshifter, you will obviously also want to get that Jaz running on your Mac. Unfortunately, at the time of writing, the Jaz drive didn't want to work under any of the Mac hard disk tools I

tried, but I have since

learned that the soft-

forthcoming, and this is the reason I wasn't able to get it up and running In use, the laz drive subjectively feels very fast, almost as fast as a modern hard drive. Reads and writes feel equally swift and formatting the disk using the quick format option is extremely rapid. HiSoft supplies a modified version of the Zip tools to be able to write or password protect the disk, or ever format it from one simple interface. HiSoft has also been kind enough to supply the use

access, provided, of course, you have CrossDos and CrossMac to use them with. Finally, the Jaz drive is a great addition to any power user's system and with programs taking more and more hard drive space along with animations or 16-bit sound samples and so on, the Jaz become almost essential, especially if you buy several of the admittedly pricey (at the moment)

with ready-made DOS drivers for PC and May

All_that The new gold ware required for the Mac is not yet

standard in removable media hits the shelves. Ben Vost checks out HiSoft's latest medium

RIDERCHIE

Bottom line

iomega Jaz drive internal £469 external - HiSoft case E529 external - iomega case £549 Jaz 1Gb disks F99 Jaz Tools available separately £19.99

Ease of use Implementation Value For Money Overall

cartridges. WHAT'S GOING ON

If you are used to using HDToolbax when prepping any new drives, be prepared for a bit of a wait as the Jaz drive doesn't automatically have a table of bad blocks. This means that the drive then goes off and checks the entire drives for blemishes, spots and other potential problems which can take up to twenty minutes. So if you go into HDToolbax and your hard drive light stays on continuously, don't panic, it's merely the Jaz checking itself all over. Unfortunately, even if you have done this (at which point you would expect that the Jaz would have written a bad block table), you will still have the same wait every time you want to repartition the drive. Although this is a pain, you never actually need to go near HDToolbax when using the Jaz. unless you really need more than one partition.

3.5" PC880B EXTERNAL DRIVE



Power Computing probably has the widest range of external floppy drives and its PC880B is a pretty standard one. The floppy drives themselves plug into the 'disk drive' port on your Amiga to make the whole disk process much easier For instance, now hard drives are a necessity the access from a floppy is rarely used to run software. The best way to run software has always been from a hard drive or from RAM, so floppy drives are only used for exchanging files from one computer to another, or for running software which fails to include an install script

Games, for instance, all come on floppies which nowadays can even come packed full of archived files which should be unpacked on to your hard drive. A good use for floppies has always been storage. Once your HD has run out of free space you can transfer some files to flop pies to keep in a safe place. This is when the demand for floppy disks with a bigger capacity come in

The PC880B is a fairly standard drive which enables you to use the standard low density Amiga disks. If you install the Disk Expande patch which comes on the included disk then your drive will increase its usability by allowing you to increase the capacity of a normal Amiga

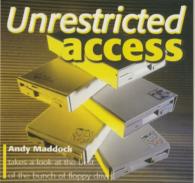
The program itself allows you to compress all the files you have copied onto the floppy by around 30-70 per cent which means you will be able to fit more on. You can increase the size of a normal 880k disk to almost 1,5Mb. If you pay an extra £10 you will also receive the X-Copy soft ware to complement the blitz copier hardware built into the drive, allowing you to back up your disks quickly and efficiently For £49.95 you can't go wrong, especially with

the software that comes with it. If you use floppies frequently you should recognise the need for an extra drive. The PC8808 would be a very cheap and efficient answer

Bottom line

PRODUCT DETAILS Product





3.5" XL EXTERNAL DRIVE



The XL is Power Computing's next step up the ladder from the PC880B. Although it looks identical in every way the secrets lie inside. You also access files from other home computer formats with a simple process.

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The XL comes with a supplement disk which features an install patch that you can either install onto your hard drive or make into a floppy boot disk. When you install the patch it will rest as a command in your C directory called XLPatch. The installation program will then add a few lines to your startup sequence which upon reboot will run and also enable the use of other formats. The other formats are PC, Mac (with extra software) and Atari, You

cannot actually run any programs which may exist on the disks but you can access files and read them, which is invaluable for text documents The drive also has an added function which allows the use of high density disks which are usually found with two windows in the disk instead of one. The XL drive will happily read

and format these disks allowing up to 1.76Mb per disk. The PC disk can be formatted at around 1.4Mb, so your overall disk capacity is increased

And don't forget, the XL drive also comes with a Disk Expander so you can increase the size even more, which can be as much as 3Mb on a high density disk

For an extra E20 the XL drive slightly overshadows the PC880B. If you have a use for big files across a number of formats then the XL drive is an absolutely essential purchase.

line

PRODUCT DETAILS

Product	XI. Externa
Supplier	Power Computin
Price	£69.9
Tel	01234 27300

3.5" SUPER XL EXTERNAL DRIVE



fitting 3.5Mb on disks seems fantastic, the call for it may not be as frequent as you think. And for £129.95 this is almost twice the price of a standard XL drive.

You must also bear in mind that you will only get 3.5Mb on a special Extra Density disk which costs four times the price of a standard Amiga disk so it turns out to be quite

expensive.

If you're looking for a drive which will hold masses of information and you're not particularly bathered about the expense, then the Super XL comes highly recommended, although you may have to think twice after

Bottom
Line

PRODUCT DETAILS Product Super XL External

Super XI. Externa
Power Computin
£129.9
01234 27300

The Super XI. drive by Power Computing is more or less the same as the XI. drive featured dove. The only difference is the fact your disk capacity can be increased to a massive 3.5Mb. Therefore, if you use drives in a workplace where a lot information has to be stored or transferred then this is the answer.

The capacity will hold slightly less than four ordinary floppy disks which you can feaving filling up rather than stopping to format a fresh disk. However, although the idea of

3.5" EXTERNAL DRIVE



With all the talk of high density disks and multiformat file access, some users are just looking for an extra drive which will speed up the use of the Amiga and reduce disk swapping time, especially if you don't have a hard drive.

either

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ILS

If you play games it isn't really necessary for a drive which will read high density disks or PC formats. It's just a helping hand, which means you don't have to ruin your delicate hands by swapping disks every five minutes. Another good use of this drive is for copying.

If you want to transfer files from disk to disk then with one standard internal drive you may have to swap disks as much as six or seven times per session, which means if you have a lot of information to back up you will be there

Marpet Development's external offers a nice cheap alternative to all the other drives. What makes it so usable is the fact it's much smaller and far more compact and while other drives tend to act like Adwinght's till and snap your fingers off, Marpet's will more or less thank you for the disk with a nice cushioned spring. If you're after a standard external drive this is

undoubtedly the best on the market

Price

Tel

Bottom

F43.99

01423 712600

PRODUCT DETAILS
Product 3.5" External
Supplier Marpet Developments

"The good thing about the drive is that it has a long cable which is essential, especially if you want to feed it around the back of a desk"

3.5" ALFADRIVE

The AlfaDrive by Golden Image looked, to me, to be the best of the bunch considering the quality of all their presious hardware. However, I was slightly surprised, especially at the fact the drive access light was coloured red instead of the standard green.

The drive itself can format disks to an 880k capacity just like a standard internal, and although the drive is slim and has a reputation for being reliable, it was quite noisy compared to the others, and after you insert a disk the drive will 'whir' away for a while until it settles down.

The drive contains a pass-through port just like every other drive revived so you can either plug another drive in or some other hardware which uses your disk drive port, such as Arnigatink. You can happily plug the network cable in the back without any problems.

The good thing about the drive is that it has a long cable which is essential, especially if you want to feed it around the back of a desk and hide it as much as possible, allowing you more

space to sook with.

Devail, the drive is pretty much standard and for 1305 you and the 1305 you are certainly good value for money.

PRODUCT DETAILS

Product DETAILS
Product AlfaDrive

 Supplier
 Golden Image

 Price
 £39.95

 Tel
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BELOW TO - WIZARD DEVELOPMENTS

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e're going to take a proper look at Web page design in this series, and we'll start at a point that is often skimmed over in other

totolish of this nature — the planning stage. Planning is very important in our both bring your site to the attention of the Webbourn of the stage of the stag

win require internance.
It's questions like these that really need answering before you even start worning about your lack of skill at generating a Web page – anyone who has used a text editor can write a Web page with little additional effort – and you should pay careful heed to how you want your Web page to look.

IT'S always a good idea to see what other

people have done and get inspiration from their example for your own endeavours, and this can also be the easiest way to learn some of the tricks of the HTML trade, partic ularly when it comes to decent page layout Another consideration has to be given to who your target audience is. If you are aiming particularly at Amiga owners, you will probably already know that the Web browsers available for our machine are not one of the elements of the Grandad of Web browsers - NetScape. If you don't have access to a PC or Mac equipped with NetScape you are going to find it hard to kit out your page with some of the fancier elements seen in modern Web pages, such as frames, but, as long as you don't mind work ing in the dark, you can always give it a go If you've checked your code properly it might just work. However, if you really want to make sure that people will bookmark your site for constant reference, it is proba-

bly best to steer clear of features you can't be sure of on your originating platform and stick to things the Web browser you use can display.

The most complete Web browser on the



Weaving a design

Amiga at the moment is probably howous which is now available (or should be by the time you read this, anyway) commercially from HSGH Systems in the UK and Europe, and from Oregon Research in the states. Stocented drow releases can manage all the features we use on Amigo Computing's Web Size, including the WebChat areas, and is probably the closest you are likely to get to MRSCape on an Amigo, at least for the media, and the states with the states of the state

Starting a new six month tutorial series, **Ben Vost** sets up a Web page from scratch

but more on those later. Okay, so for this project we will actually go the whole lag and set up a real Web page which you will be able to see progress as the tutorial does. We will be starting simply and building up to using some of the more advanced HTML tags and techniques throughout the series.

Let's star with the plet. What do we want for our Web page? Itst down and came up with a lot of ideas, some of which may be appropriate for the Web but not for a family magazine, and shortlisted a few. Finally, indecided that since I had such a few. Finally, indecided that since I had such possible pool response to the Workbench 96 article that was in our January 96 issue, and because I have access to machines like Mass and PCs. I could add a visual element to the article that was missing in the paper version. For the page was missing in the paper version that was missing in the paper version.

WHAT YOU NEED

This storial is gaing to deal with concepts, programming techniques and graphics that or gaing to need your full destration and a decent machine to boot. Once we set which daing staff to yupload to our Web server you will need some knowledge of the devoded Unix command set, but I will explain of left on care use of them. Although we are besing this turborial orward one UN-based internet provider, our American and Canadian readers should be able to easily transposes some of the declaids to say to providers slightly more local to them.

It goes without spring that you will need a modern machine with MUI and a band drive to set up your Webpage. But so light you some idea of the Southere used for this project, we will be using a combination of Personal Paint, Photogenics and image/it X for the graphic, vor might even chust, in a bit of 3D rendering courteys of Lightheway. Inducent for the efficiency and littowes for the page previewing. You will also need a teinet application and a utility that can reserve to a carrives.

Amici

AMIGA COMPUTING



way of allowing people to add their crossments disrolly to the page and for developers to use the sale for things ourse code. So we have an idea for a Web page. Not touchly exhibitating a concopt maybe, but maintenances wheeling. The first him to touch a for the way to present the information was conditionally and the sale of the way to the sale of the sale of the sale of the way to the sale of the sale of the sale of the way to the sale of the sale of the sale of the way to the sale of the sale of the sale of the way to the sale of the

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CAPABILITIES

One of the major advantages that a Web site can have over paper is the ability to be able to send people off in other directions such as links to Apple's site to check out the features of the Mac's OS, or links to some of the shareware programs mentioned in the -text so that the reader can download the programs for themselves. The Web site can also be linked to another of Amigo Computing's articles, this time the 'Modus Operandi' piece from last December's issue comparing Workbench with System 7 on the Mac and Windows 95 by Frank Nord. This piece must surely have relevance to the Workbench 96 article and although we could put a note in the Workbench 96 arti cle telling people to also read our December 95 issue, it is only on the Web we can point them straight to it.

Fortunately for me, IDG maintains backups of all past issues so I can easily retrieve the original pictures, DTP files and text for the two articles and recycle them for Web use. The only slight concern I have is based around two potential problems – namely that the two issues have different designs and that the Flash Corfoon image in the Modebanch & Gianza van zuide for inst for the It's always a good idea to see what other people have done and get inspiration from their example for your own endeavours



So now onto how the Web pages wil look. Looking at the layout of the magazine I do like the little 'future Amiga' graphic and cover feature WOB at the top of the page.

but I can't use the spaceship (copyright again), and the words 'cover feature' aren't really relevant any more. So playing around on a bit of scrap paper I came up with a nice Workbench 96 logo which I can use at the top right of each page on the site.

Background or no background? Should just specify a colour? Hmm, well sino IBrowse can turn off background images think I will go for a little '96 logo since it will make a nice repeating pattern, but I'll have to make sure it is as unobtrusive as possible while still being visible. What about the heading for the sections and the crossheads? I'm going to ditch the crossheads (those bits of text that just serve to break up paragraphs) at this stage and just concentrate on getting the page up, besides which, crossheads may be a necessity when you have a mass of unbroken text, but since I am going to break up the article onto separate pages, they will be less useful

Captions can also be a bit of a problem with HTML so I have decided to incorporate the text into the images themselves so that can have full control over their typograph and the bullet point used.

BUILDING THE PROCESS

Oke, that's most of the design issues! have to warry about right now out of the war, now well have to this more about the remaining content of the popers, what finisk (if any) well have, how people can suggest new ideas for the Workboach 96 topic and so on. In the norm almorance of automotic the wood lever, well start the page using only standed MTML topic plants produced with the condition of the start the page using only standed MTML topic plants producilly until our Wite site is an example of the finest, modern, HTML cading there is with agreement profiles and superhis trad superhis can superhis tool to book 5ee you note month.





How to Order from GH.

nortags comthere deal tast mosth with the creation of the EmpleanCir mensu and gadgets but, of course, once these items are added to a win-dow it then becomes the program's responsibility to handle the events generated when a user selects a menu item or makes use of a godget Luduly, at this stage of the proceedings, we can broaden our scope a bit because whether you are honding mensu events, gadget evens, or any other types of event that we've asked for.

As you probably know, event notification on the Amiga takes the form of messages and the message system used is basically an Exec facility. In the case of Intuition, the real message information is provided by supplementing the Exec defined message with additional fields using an extended structure known as an IntuiMessage. Now, before a program can receive such a message it must have allocated and initialised a suitable message port, but with Intuition this job is nigh-on transparent. Providing we ask for at least one type of message to be sent, which we do by using the WA IDCMP tag when opening a window. Intuition will automatically do all this port creation stuff for us at the time a window is opened. Event types, set using flags defined in the intuition h header file, are available for a whole host of events and you'll see a variety of flags being used with each EasyBaseAC window module

You should, incidentally, notice how the various flags are combined using C's bitwise Inclusive OR operator, J. For example, in the window2.c module you will find this WA_IDCMP tag definition being used in the OperWinfordwites() call:

WA_IDCMP, IDCMP_CLOSEWINDOW|IDCMP_MEMUPICK| IDCMP_MEFRESHWINDOW|IDCMP_GADGETUP

Here, the IDCMP_CLOSEWINDOW flag asks Intuition to notify us whenever the user hits the window's close gadget. The IDCMP_ MENUPICK and IDCMP_GADGETUP flags say that we want menu and gadget selection events to be provided, IDCMP_CHANGEWIN-DOW gives us window size information.



EasyBaseAC uses a combined signal detectio loop to detect messages arriving at its windows.



○ For Intuition and Gadtool programming it is essential to have the official Amiga include files. The files can be bought separately but do in fact come with all commercial C compilers such as DICE

Operation database

whenever a user has resized a window, and IDCMP_REFRESHWINDOW allows intuition to remind us whenever our window display needs refreshing (redrawing).

It's all very well saying that our program collects messages sent by Intuition but how does it get to know that Intuition has sent a message in the first place? The short answer is that it's all done using Exec's inter-task signalling system.

For each task Ence allocates \$12-bits for use as 'tignal bits'. Stateen are used by Ence Itself and IG are available for use by the task in question. In most cases you will rarely need to worry about hom these bits are allocated because inhalition handles the nitry grith details for you. You do, however, need to understand how programs are put to sleep (rendered inactive) and brought bank to Ife when something of importance happens (it. a message armies indicating that the Paul Overaa outlines his

approach for handling events

which arrive from the three EasyBaseAC

windows

EVENT HANDLING PROPER

Having used Woit() to identify the fact that a message has arrived at a window's user port, the appropriate event handler gets called and this needs to do several things. Firstly, it must callect the message. Secondly, it must extract information from the message by copying all required fields into temporary variables. Lastly, it must fell intuition that the message has been dealt with.

The exec library functions for doing the first and last jobs are colled GetHsg() and RephtHsg() but when Godtool godgets, as opposed to Intuition godgets, are involved it's necessary to use the equivalent godtool routines called GT_GetHlsg() and GT_RephtHsg() it's these functions that you'll find in my code rather than the underlying exec

Every time a message part signal bit becomes

set it means that one or more messages have arrived. Because of this, each EasyBaseAC window event handler uses a loop to process its messages and this loop continues to collect messages for as long as the GT_GetMag() routine returns valid (non-NULL) pointers.

The interest of the interest o

soon as all outstanding events have been dealt

For more event handling, which other toods is movie more outward processing. I past these are a separate mean handling routine to oveid the control separate mean handling routine to oveid the control of the service o

mp_Sig value t the nu times, operati shift; >np_Si nask: With sophist

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Wait()

1 6

program user has done something of

Again, the Exec library comes to the rescue because it contains a function, called Wait(). which allows a program to sleep until one or more signals are received. It's at this point that the EasyBaseAC connections get a little complicated and since Exec signal handling in general seems to confuse a lot of people. [1] sketch out the basic ideas from scratch. A message port structure contains a field designed to hold an 8-bit value called mp SigBit which represents the signal bit number which has been assigned to the

message port In the case of Intuition, the IntuiMessages which we have requested will arrive at the UserPort so... if s window p is a pointer to a window then the C code needed to refer to the signal bit number of the UserPort of that window looks like this:

s window a -> UserFort -> mp SigBit

Wait() needs to know which signal bits we are interested in but it expects these to be supplied as a 32-bit mask, not the signal bit numbers contained in the UserPort's mp SigBit field. Converting the mp SigBit value to a mask is easy - we simply left-shift the number 1 an appropriate number of times, namely mp_SigBit times, using the << operator, like this:

With EasyBaseAC, however, a slightly more sophisticated scheme needs to be used because not only can up to three windows be on display at the same time, but the user can shut down or reopen windows as they see fit. Since signal bits are allocated dynamically as windows are opened (and deallocated as windows are closed), EasyBaseAC needs to keep track of which signal bits are currently associated with which windows and it needs to keep this information up-to-date

Remember, just closing and reopening a

n dealt

ndow2.c

na code

appreci-

hen you

BaseAC

O Note: When this call returns it means

O Inutition's IntuiMessage structure

DETTE Main[sectHandler(soid] IBTTE error_number=80_ERROR;



C To cater for various fonts EasyBaseAC makes some rough calculations on text size. These routines will also be found in

window could result in the signal bit of that window changing!

The way I handle this is as follows: As each window is opened the associated signal bit is stored in a global array called g handler sig hit[] and this value is then inclusive-OR-ed into a global port mask like this

Similarly, at the point where a window

(either under user or program control) is about to close, that associated signal bit is removed from the port mask by exclusive-ORing and the stored signal bit position reset to zero like this

g_port_mask=*g_bandler_sigbit[2]; /* remove signal bit from mask */

The above fragments are from the win dow2.c (record editor) module provided last month (hence the 2 array subscript in the expressions). The net result is that no matter how the overall status of the EasyBaseAC win dows change, the global port mask variable always contains the appropriate signal bit mask for the windows on display. This mask is then used as part of the high-level Wait() loop shown in listing 1. Notice how I'm comparing the signal set returned by the Wait() function and checking it against my g_handler_sigbit[] array in order to determine which windows have messages queued up at their UserPorts

INDOW REFRESHING

The EasyBaseAC event handlers return codes that are normally meant to indicate success or failure of the routines. I tend to collect this value using an error_number variable, but in a couple of instances I 'borrow' this variable to pass back what is essentially non-error information to a higher

One example of this will be seen in the win dow2.c code module where, to force a window to be closed and reopened, I set the error_number to a non-zero REFRESH value. By checking for this value in the MainEventHandler() routine in main.c, and then checking the g_handler_sigbit[] array to see which windows are open, I'm able to close and re-open any windows that I've chosen to update. The reason this approach has been adopted is that it is not safe to close down a window from within the window's own event handler!



veryone is going Internet crazy these days - the networks are really starting to show the strain. but the only thing probably stopping anyone from going online, apart from the cost is just how complex a process it all is. When I started on the Internet way back in 1993, Demon was only offering its horribly clunky AmigaNOS software for use with the Internet At the time, the Web was a mere glint in the eye of the average Amiga owner and you had to contend with shell-based fto software. Looking for files took an Archie search and Gopher was as graphical as the whole thing got. Needless to say, if you were one of the lucky people that managed to get AmigaNOS to work first time, you were very careful not to mess around with it, even though it had loads of unnecessary files cluttering up your hard drive and the assigns were monstrous. However, various Amiga-owning Demonites were good enough to put together an installer pack for the infinitely superior AmiTCP TCP/IP stack that allowed access to the Web and a variety of other tools that

didn't support AmigaNOS.

That was three years ago now and the installation side of things hard really gat any easier, at least judging by the number of letters we get asking for more internet tutorials. All that is set to change this year, though, with the advert of two new products. One is deadlered of the respective of the second distant (more on this later), and the second is deadlered of the new products. One is in this part of the second of the second

and a web proviser in the shape on locurise. Now while the e-mail package, flp client and Web browser are Metatool, DaFTP and flrowse at the time of writing, it shouldn't automatically be assumed that they will be by the time you stroll up to HiSoit, put your grubby tenners on the counter and say." off like a copy of Net & Web and I'm not too proud to admix it."

To give you some idea of the almost constant mutation that this package is undergoing. I started this review about a week ago and

Information



It may be a touch corny but **HiSoft** reckon it's true

Frank Nord
investigates its

offer

the !

Internet software

BLUE CHIP

already fixthand at H50th has sent me a new, improved version and he called me took let me know he had just finished another newer version that he could send me newer version that he could send mag I could have just leavy getting new versions til kingdom came, but instead promised Richard would sell you all that the package would just keep getting better. The really great thing is the fact that it is already good enough to receive a Blue Chip award, so, any improvements that can be made some any improvements that can be made as any improvements that can be made as any improvements that can be made as the solution of the country of going to improve the pack's standing overall. On the question of updates, HiSoft has promised me that it will be able to offer either free, or at least very cheap, updates to the latest version of the pack to any and all registered users and that it is currently engaged in

RAISED IBR(W

The Web browser that has been provided with Net&Web is iBrowse, currently the Amiga's best browser. The version that is supplied with Net&Web is a full commercial version with none of the limitations of the freel distributable demon version. This means ye can have as many as 100 connections to the left of the supplied with Net&Web is a full connections to the left of the version. This means ye

connections will probably prove slower that having a most modest number such as eight or ten), and items like the mailto: tog als

The sension I received was still a garricace are but Infly articipate the final II release to be included in the pack by the time of the pack of the pack by the single gar need this. Silvense supports most of the slightly more lampy HTML lags that are very day use including forms, fields and tables, otheruph it deserring valapport from or news reading. New the Billowese is a cosmercial product with HEGATS backing, this will admirest extension men that the road will improvements are made to it will increase many time and veryone con the devoted to it.



Bland in look but fast online, the Enterprise performs well

THOSE NET&WEB CONTENTS IN FULL

There are two versions of the Net&Web package. one with a modern and one without. The modern is RART anomyed and isn't had quality at all. The case for the modern is a hit bland-a but since it is so cheap I'm sure only the most aesthetically sensitive reader is going to mind. The only bad point I can find is the fact that the Enterprise Madem doesn't have an on/off switch on the modern itself, meaning the user needs to unplug the modern every time

he or she wants to switch it off. Next is the software itself. Net8Web relies on MUII

for use with iBrowse and Metatool, and the pack actually comes with a licensed version of the said software, enabling the user to be able to save all those nice buttons and so on that the shareware

NetRWeb also comes with a better than rudimentary text editor so the user can a) write all the e-mail they need, and b) edit configuration files and so on The text editor on its own is a welcome addition and it's nice to see that HiSoft has thought of every contingency. This really is plug and play

software. By default. Net&Web uses SLIP for its modern connections to the Net. but Holger Kruse's PPP device is also provided and the TCP/IP stack provided is NSDi's AmiTCP 3.0 beta version, which works perfectly well

HiSaft has also provided a variety of scripts for people who don't like to mess with the shell to set up the PPP device and extract files without too much hassle, among others, and the whole thing sits in a drawer that weighs in at just under 4.5 mea

speaking to Amiga-friendly ISPs for them to offer Net & Web as the way for Amiga owners to set online. Already Net&Web offers installafon scripts for Demon, CDX Frontier and Applause Data (a Norwegian ISP), and HiSoft is busy working on Planet Internet and Zetnet installers as well.

The installation process is a cinch. All you need know is your node name and password to use it and everything else is automatically set up for you. Net & Web even configures the correct phone number for your local POP. based on what STD code you use. For users out there with a bit of sawy, you can also adjust things like DNS, e-mail and news servers (although at the time of writing Net8Web doesn't come with a dedicated newsreader), and so on once Net&Web has been installed through the GUIConnect program. One of the other nice things about the NetaWeb installation is the fact that environment variables are also kept in the Net&Web

directory and therefore don't automatically get loaded as they would if they in ENVARC: thus wasting valuable ram

In use. Net&Web performs just fine with the GUIConnect script, offering a very easy way of linking up and starting the various programs that come with Net&Web. although it would be nice to see the various shell windows that open up contained in a simple interface, just to tidy things up. At the moment there is also no easy way (other than to use the shell) to access all the little ancillary commands like ping and finger that can prove so very useful

In conclusion then, I have to say that, in my experience, there isn't an easier way of getting on the Net In less than ten minutes you can plug in your new modem, turn on your machine and get going. With the package being updated as often as it is and with HiSoft's excellent technical support, I think we're going to see an awful lot more Amiga owners on the Net soon.

MIAMI VICE

Miami is the forthcoming TCP/IP stack from shareware heavyweight Holger Kruse. The idea behind offering vet another new TCP stack (alongside Commodore's defunct AS-225, NSDi's AmiTCP/IP. Internetworks I-net225), is one of simplicity. TCP networking is never going to be the easiest of things to understand but there is no reason, other than an elitist Unix attitude, or possibly laxiness, not to hide same of that complexity. The upshot is that Miami is supposed to be almost Mac-like in its setup simplicity. Gone are the endless text files that need to be edited by hand to be replaced with modern, easy-to-use interfaces allowing for the configuration of services and clients and all the other gubbins that goes along with any other TCP/IP stock.

Currently, Miami is in alpha, but it should be available by the end of the summer, so hope fully we will be able to tell you how good it is soon. At present, Holger has decided to abandon the SANA 2 networking standard set by Commodore as being too slow and has concentrated on superfast SUP and PPP implementations for modern use. This does, of course, mean that Miami will be no use for traditional networking between machines unless the ethernet cards you have get a Miami driver, but how many Amiga peer-to-peer networks are there out there anyway? Answers on the back of a postage stamp please to the usual address

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Implementation	90%
Value For Money	90%
Overall	93%

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is ideal nd its nust

ARexx, unlike most other computer languages, is very easy to learn.

ARexx can actually be used in a number of different ways. Firstly, you

really scores, however, is that it contains special bull-in communication features that are enable programs to send messages to each other. A great many Amiga software products make use of this nowadays by providing sets of commands that allow users to use Reexx to to control the way the program operates. This adds a new dimension to Amiga software set because it makes it possible for new facilities to be added to a program.

For example, the Final Copy word-processor doesn't provide a document line-numbering option, but because the program has an Paul Overaa kicks

off a brand new series that takes

a beginner's look at

ARexx and how it is used



Command performance

Aftex: interface it's possible to write a small Aftex script that list limit Copy what it must do to add line numbers to a page of text. In this case Final Copy could execute the script directly and when this happens the script itself would effectively be controlling. Final Copy, casning it to add the required line numbers. Once that script is available you're able to set it whenever you want to add line numbers. Once that script is available you're able to set it whenever you want to add line numbers. Once that script is available you're able to set it whenever you want to add line numbers. Once that script is available you're able to set it whenever you want to add line to set it whenever you want to add line have effectively added a new it sour, but copy, in short, these Aftex communications and the script script in the script scri interest, they have real practical value and are, in fact, the main reason that ARexx is provided with your Amiga.

STEP BY STEP

In order to create scripts that control other programs you need to know a little about AREAX programming, and the main job of this first installment is to take you on a guided tour of the steps needed to write, and rur, a simple AREAX script. To start with you'll need to open a Shell window and you do this by double-clicking on the Shell (iron that you'll).

RUNNING THE EXAMPLE

You execute an ARexx script from the Shell window by typing RX followed by the script's name. Unless you need the typing practice it's not necessary to type the .rexx part of the script name because the RX command supplies this automatically. Since our example is in the RAM disk we thereforg run it by typing this Shell command:

x ram:esample

If everything goes according to plan you should see a message asking for your name and, when you enter this (and press the Return key), your script will display a personalised message for you. If it did then congratulations — that's your first script written and executed! If things didn't go quite so well,



the window will be blank



Once you've typed in the example program, select the ED Save option

Afters will stop the execution of the script and provide an error message. It will always do this if there is something in the script that it connot understand. Like all programming languages, Afters has certain rules about the way program statements are formed and used and you would, for instance, begiven an error message, if you wrote the second line of the example like this:

SAY 'what is your name!

ARexx would read the line, realise that the terminal quote mark was missing, and complain. Whenever you get an error message you'll need to use ED to look at the script again. ED is not a particularly easy editor to use but it's good enough for most ARexx script editing. The easiest way to make changes is to use the up/down/left and right arrow cursor keys to move to the part of the text you wish to after and either add new characters or delete incorrect ones using either the Del or backspox (<) keys. You can also change the position of the cursor by moving the Workhend pointer to a character and pressing and releasing the left mouse hutton.

Having found and corrected any mistakes, you then re-save the script and try running it again. Once you get the original version up and running the best thing to do is experiment a little by changing the text being used, odding a few extra SAI instructions that print some additional text messages and so on. That'll stand you in good stead for next month's instalment.

Markhench3.80:

Workbench3.0: rx ran:example +++ Error 5 in line 2: Unmatched quote Command returned 10/5: Unmatched quote Workbench3.0>;

If you find that ARexx displays an error message then you'll need to take another look at the script you've written

find in the Workbench System drawer. ARizes programs are essentially just normal text files and can be created using any text editor program. We're going to use the Arniga's ED text editor but you could use a word processor if you life, as long as it is able to generate normal (so called ASCI) text files as opposed to document files that contain special formatting characters.

Those of you who haven't used a Shell window before need to know two things about. Those of you who have a specified proper of the specifying Shell commands: Firstly, you must type the name of the command to be carried tot (along with any other information the command might need). Secondly, you must press the Return key because this let's you Arriga know that you have finished typing a command. We're going to be creating a file called example.rezu in the RAM disk and this means that the Shell command line needed is:

The moment you've typed this command

and pressed Return a window will open and at this point you can enter a script. Type in the following four lines exactly as

written, pressing the Return key after you enter each line:

/* example.ress */ SAT 'what is your name?' FULL name SAT 'hello' name

ol other

about

led tour

this hu

delete

kspace

again

tra SAY

hood for

The first line which starts and ends with pairs of /* and */ characters is called a comment

SOME AREXX HISTORY

The might be interested to know that Afters has one hell of a pedigree because it's based on the AEXI programming language developed by Mile Condicions at Mile IEEE development coulsely started around 1970 set of was not stall 1985 that Mile Condicions book (published by Printice Hell and colled the BEXX Programming languages A Practice Appeared to Programming first appeared by the BEXX had because the Aexical Aexical State of the AEXICA AEX

As the Amiga arrived on the scene a programmer collect Bill Howes recilied the BESX and the Amiga had a lot to offer each other and he began planning develop ments that would eventually be recognised as a major milestone in Amiga history the Amiga version of Best William and Amiga history the Amiga version of Best William and Amiga history the Amiga version of Best William and Amiga history the standard Proceduras Language for all Bill System Applications Architecture (SAA).

The Ample servant of EEE which we now know as Africa. In TRE, RELY Istal Recent the standard Procedures a suppage for all RM System Applications, Architecture (SAA), the standard Procedures are suppared to the Sample standard to the Ample of the Sample Sample Sample standard to the Ample Sample standard both 12 and 15. Since the, Affica has been known play naming and the Ample through both 12 and 15. Since the, Affica has been known play on procedure to the Ample of the Ample of the Sample standard on a third party product the language became part of the Ample of the Ample over since.

line. All AReax programs must start with a comment and it's common practice to provide the name of the script. You can put additional comment lines anywhere in an AReax program and with larger programs you'll often find a few eatra comments useful.

SAY is an Allexx instruction that makes SAY is an Allexx instruction that makes Allexx print things on your Amiga's screen. In the second line of the program we've specified the fixed piece of text, "what is your name?" by placing that text between a pair of single quote marks. Text items like these are called string constants simply because they represent strings of characters that will not change strings of characters that will not change the strings of the strings o



O Double-click on the System drawer's

Shell icon to open a Shell window during the time the program runs.

PILL is an ARexy instruction that allows us to collect typed input from the user of the program. The important thing to notice about this part of the program is that there is a term - name - which follows the PULL instruction. This is not just another piece of text, it is a special sort of ARexx item called a variable which represents part of your Amiga's memory. Variables are used to store numbers and text that may need to be changed during the time the program runs and, as in our case, for collecting input from a user, It's your responsibility as ar ARexx programmer to specify a suitable variable name and it is usually best to use names that are understandable. Because the third line of our program is going to collect the user's name I've used a variable called... name. Notice, incidentally, that there are no quote marks around the variable name and it's because of this that

variable rather than a fixed string constant.

The very last line of the program is another SAV instruction, it differs from our first use only in the fact that this time we're printing two things: The string constant hello, followed by the contents of our name variable.

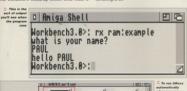
ARexx is able to tell we are defining a

Once you are sure the program text you have typed is correct, select the Save option from the ED Project menu to save your program to the RAM disk. Having done that, select the Quit option (again from the ED Project menu) to exit from the editor and you will be returned back to the Shell window again.

STARTING AREXX

The files which constitute the Aftecs language are stored on the Workbench disk. You can start Aftecs by double-clicking on the RexuMast icon in the Workbench's System drower, but a far better idea is to have Aftecs: start automatically whenever you boot your machine. To do this just drug the RexuMast icon into Workbench's WBStartup drower. Once Aftecs is

up and running you don't actually see much. There are no Aflexs gadgets or menus, you a small instands which provides a brief sign-on message and then all visible traces of Aflexs disappear. Don't panic, Aflexs will still be present in your Amilyo's memory — it so stiting quietly in the background waiting to be given something to do!



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Contents

News

All the latest news featuring revie and previews is stored here. If you can find them let us know - we

Total Football

Domark's new football game is totally brilliant. Why don't you check out the full review



Chaos Engine 2

The Bitmap Brothers make a welcome return to grace the Amiga screen with the eagerly awaited sequel to one of the most popular





٥

Final Gate

Full motion video action aboy with Alternative Software's latest release



SYSTEM

By Andy Maddock

Natural born liars

ight, we promised you lost month that we'd have a full review of Championship Manager 2 for this very issue. Unfortunately, due to a lack of information we haven't

Domark promised us we'd have it for this issue but they have now told us it's going to be another two months while they bug test it and sort other things out I'm sorry if I got your hopes up. Never mind

check out the review of Total Football Domark's last but one release for the Amiga. Who knows, Championship Manager 2 may even be here for next month, although then again... probably not

This a game that may be with us in two months, although we reckon less. But I'm not going to start those rumours and

definite cert

have just heard about a new CD-ROM adventure game that's going to come out. It's an

It's called Demistar and was created by the Rios/Lebed Project, a company who wishes to support the Amiga all the way by creating new it will probably be out during my lifetime! Despite the lack of information about Demistar I assure you it is all completely accurate



Ooh, CD-ROM game here. Oh my lordy lord. If this come. out the CD world will be put to rights... hurrah!

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en't.

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If you had time to venture down to the Hammershith Novotel to visit the World of Aniga Show last month you would have noticed we had a stand packed full of games, magazines, subscriptions, not to mention an A4000 whose highlight of the show was to crash repeatedly white punters, then

discissed to wips the hard other. Cheen, Anyway, I hanted around the thou myself and found... next to nothing, some other magazine stand was showing off Capital Purshment by the Canadian learn should be considered to the consideration belief 3D. White the was going on a foreign chap showed me on overhead-type adventive game which I thought was quite good, but when I enguled about release dates the made add in the eef's so of the feet made add in the eef's so of the feet made add in the eef's so of the feet and the sound so the product add in the eef's so of the made add in the eef's so of the the sound so the product and the feet and the sound so the product and the product and product p

So all in all, it was an exciting show with plenty of goodies on affer, but sadly none of them were games. Never mind, you never know, it may perk up a bit yet.

Next Month

It's not our fault. Okey so System has been greatly reduced in size. It's been a bad four weeks for games. At the beginning of the month we had high hopes. We had heard of some new games which would definitely be ready for review and I hunted around for some news stories which were meant to be printed here but they turned into full pages. We tried our but they furned into full pages.

the field out best.

New York Control of the Management of Capital Punishment, House Very Legends, Altophy, Choos Engine 2, Sensible World of Soccer European Chemistonship Edition and Harry's Balled Management Chemistonship Edition and Harry's Balled Management of Soccer European Chemistonship Edition and World Management of Society Chemistry (1997) and Chemistry



System Selections

Watchtowe

89% OTM

This commando-style game is marvellous. So good in fact I awarded it a spiffing 89%. It features some excellent gameplay packed with loads of special effects like explosions. Great.

Premier Manager

92% Gremlin

With the season over and a relegated Manchester City, it's time to pack my bags and head for sunny Stockport in search of some better football – namely Division 2. Oh yeah. Premier Manager 3 - Deluxe is quite good. If

ekeepers 90% Vulcan Software

Are you always lafe for those important appointments? Are you always told aff for your punctuality? Well, don't look at me. You should keep your time.

with Timekeepers. Yes, that oh so puzzling game courtesy of that Portsmouth bunch. (We always call them that don't we?)

Super Skidmarks

88% Acid Software

This is the filte that immediately springs to mind after a heavy hight of curry abuse. Ho ho, nobody's ever done that gog before the first with all the lokes around here, on yes, I am by for the best.

racksuit Manager 87% Alternative Software

This is another footy game. It features a league table, fixtures, players, footballs, kits strips substitutes, cup competitions. Player loans. European competitions, playoffs...



90% 21st Century Entertainment



Hey, if this game's by 21 st Centruy it's aimsof out of date. If the whole point is to prove its games are in the next centruy then in four years the games will be up to date so they won't be chead of everyone else. It going to call itself 22nd Centruy Enterdaimment? But what about in another 100 years. 6 It's been a bad four weeks for games 9

deretatement of the year



Chaos Engine

Engine 2 of ECTS which was a bit of a nightmar for Aniga awere considering their weren't anylmany. Anigas on show, the only Aniga is aw was the one with Chool Engine 2 playing on it. I've of the brothesis, were showing it off a longistic orbit Playstation and Solar messales. As Smo. Knight talked me through the whole game, more and more people were gathering behind wetching the on-screen callon, it's a pity they dain't stay long enough to see mis actually bed Smon, much to the emborrass-



to the Arriga scene, diffrough something has sparked enough interest for them to return with a sequel to Chaos Engine which has generated a lot of interest, especially for old whilely Arriga owners who can remember when Speedball was released. And incidentally, to this day, it's still one of the procets grames on the Arriga – ever. I first saw light of Chaos



Here's the Navvie character. He's like the big hard one you wouldn't ask for a fight



There are four players to select from, each differing in speed, agility, power etc



If you collect loads of stuff you get loads of points. Ream



Here are some robots. They're like Metal Mickey only smaller and not as funny





You can climb up ladders and things to escape your enemy

ment. Oh well. The main new feature which was pointed out was the addition of an actual challenge, whereby the screen was halved, with each player taking their respected half. The general idea is to pick up a

key so you can unlock a door, and, the first through wins, not sand.

This, by tisell, mor stand are points to collect and bearties or opinits to collect and bearties to defect, sometimes the key can be fragathen and you eventually engage youself into lengthy bouts of Choos featbodiery. There's doo the added feature of you off pointforms which give you many as



Quick, get that key before that guy. You'll probably have to get up first though

Harder than it seems

Everbody knows the Billmop Brothers would never release below-average games and Chaos Engine 2 will certainly be no exception. The big addition to Chaos Engine is the computer intelligence. If you happen to be a bird or point since computer's intelligence will all book of parish the computer's intelligence will not getting a good bearing from the computer usually right at the end when you're about to open the final down.



Dynamite is used to open the door that leads to the exit

can turn out to be a bit like Tom and Jerry, or hide and seek if you like, but wait... there's a little scanner so you can tell where your enemy

is. That's diright men.

The graphics have been slightly enhanced, as well as the sound effects. For instance, as your computer or human apparent sets

closer the music will change in tempo, making it exciting and nerve-wracking - just like a film.

All the same characters will be included with different personalities and leaks and

personalities and looks and there will be some hefty artillery available. Incidentally, you'll be able to pick up other weapons throughout the game such as dynamite. A nice little touch that makes all the

difference and han't been seen before in any game is the foot that you can lean into a will loading builets and flying fists. Also, if you run out of ammunition when your opponent has the key, there's absolutely nothing to stop you going up to him and giving him a good slop round his head. Go for it, man. However, having no weapons does leave you slightly vulnerable and you will probably die.

nsight

Chaos Engine 2 is around 90 per cent compiete – all that's left are a few bug fixes and generally a bit of tidying up of graphical giftches and things. Hopefully, we should have a full review next month. Get ready, because it's gonna be big. 6 A nice little touch that makes all the difference and hasn't been seen before in any game is the fact that you can lean into a wall to dodge bullets and flying fists 9



review

The hideous monsters who hurtle towards you could have easily wandered from a Space Invaders machine circa





pap. But I'm getting cheed of myself. Left me discribe the game to you. Final Gatle is, in the broadest terms, a shoot-fem-up. Pumped up with a Full Motion Video hose, you sweep down or liver in a speed-boot and blaid are

Described thus, find Carlo actually source, auther exciting, but, and lift and first a dark the description I gave you might suggest that this is described in growing the state of the sta

The 'actors' on the riverbank are highlighted by a half-box gunsight, presumably to help you pop their clags. Very kind of them, but perhaps collision detection might have been more useful. Many times I held the gunsight over the felia in question, with the fire button firmly depressed, sending butlets of over the general area as I speed past. And still I missed, Maybe I'm subbits, but the fact that you can't use a mouse makes it very fustrating when you have to hould the sights sight over the screen with the joystick. Should you manage to shoot them then some bloke appears and gurns at you saying "good shot." You then get to see the gurnner fall over and your boat confliuse shown the river.

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And that's prefly much it it's basic but that's usable obligation for most games, 4dd the mysloid defects here though, and it's a recipe for disaster. Some of the other annyances that depress me too much to dissues in any depth on the try ploying reas. the use of the generic Arrigo fant throughout the game, the way you have to restort at the beginning of the first level have to restort at the beginning of the first level game resetts when you run out of level. One of the most pointly agrouns leve ever glorans are game resetts when you run out of level. One of the most pointly agrouns leve ever glorans level.

Final word

This is truly hideous. Unlike most FMV games this one doesn't even have the decency to hide behind nice graphics. If Final Gate was a TV show it would be on ITV at about three in the morning, just before Jobfinder. And that's where it belongs.







burk in the scenery



Bored by the whole thing, our hero takes in a spot of fishing



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SYSTEM review



You can see there are plenty of competitions to keep you involved in the game



into it you get one point. (That's for

ota

Austria versus Cameroon is

halves. Heh, I don't think so...

lways a good, solid game of tw

Football

otal Football arrived some time last year on the Megadrive - I think - and it wasn't game ever and never managed to steal the crown from the FIFA series. However on the DEVELOPER Amiga it's a different In-house Sensible Soccer was and still is the finest arcade football game, so anybody who thinks they can bet-

ter it is surely mistaken. I don't think # anybody can better SWOS but one day I hope someone will prove me wrong However Domark has finally released Total

Football after claiming it may never release it So here it is... Some people actually mixed Total

Football up with Championship Manager 2 thinking they were the same thing, only with different titles - some even thought the two were going

to be incorporated herause you manage your side like in Manager and when you get on to the field you get to play the action in

arcade fashion with Total At the beginning of the game you get to choose between a standard friendly or league, knockout and cup competitions. Before you begin the game you can also tinke



The All Stars team is truly ream. It sho be called the All Ream team just for fun



with the options which range from match

Och - look at that. England and Scotland. Er, I can't mber the score. I do screenshots before captions



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No score draw

It's pretty difficult to score in this game. I had to wait five matches before I managed to put the ball away in open play. It seems the jog about in the box like a madman someone's bound to tear your leas down. Consequently, it seems as if Total Football has a flaw - but not if you turn the fouls

If you do manage to score a half decent goal your player will run off in delight to the crowd, either to display his happiness or his nipples. Yes, even in computer games scorers have had the rush to rip off their shirts.

get into the competition you desire you will find that the only teams available to you are international sides. And after you select your

Unfortunately, there are no real player names but some of your players are distinauished in other ways, for example you may find a player in your side is completely bald. The only way I can explain the pitch view is that it is isometric FIFA-like - only the camera view is slightly higher up. Also, incidentally, the camera anale cannot be changed

The first problem that hit me was the control method. When you press up on the controller with this, I suppose, except it is quite bizarre bearing in mind the angled isometric pitch. In these games I usually prefer the player to run up the pitch in an up/diagonal way when I press up so I know how to aim shots, otherwise you'll be all over the place - like I was. It will take some getting used to but after a while you should be knocking in goals left, right and

The shooting system is also pretty awkward because you have to press the fire button once to pass, twice for a bit of a shot, and three times for an absolute crack up field. Obviously, you end up using the latter because



are all officially ream. Possibly even reamer than re



Here's a shot on goal. If you score you get one point, Damn, I've said that already!

passing the ball around is not as easy as you think. The computer seems to enjoy taking the ball off the end of your boot and storming forward to smash the ball into the back of the net. Oah, thanks

The presentation in Total Football is pretty good. The graphics are nicely drawn and, surprisingly, there are many crowd chants, along with some geezer who insists on thrusting in

Final word

good effort which will undoubtedly give Amiga owners much relief to know that football games are still being made. But I have a feeling Total Football's success will be very short lived. As soon as Championship Manager 2 is released I think it will be slightly

6 The computer seems to eniov takina the ball off the end of your boot and stormina forward to smash the ball into the back of the net 9





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review



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HD INSTALL

Yes

Reviewed by Archy Moddock

Reviewed by Archy Mod

f you think of how many genres of games there are it's difficult to believe there is only one which I truly hate. You may think it's adventure games because you either love them to bits or you deep they exist, but no, it's not adventure games and it's certainly not platform games because onto lives them so much. So what can it be? Have a wild guess.

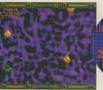
Since Xenon and Xenon 2 there hasn't been a single shoot-em-up which has impressed me enough to play it. Okay, so Project X by Team 17 couldn't be accused of not attracting my attention, but it wasn't exactly a breakthrough in computer game technology now was it? It looked nice but played as well as Leicester City – promising but still nubble.

So as you've already gathered, I'm not the world's best lover of shoot-'em-ups. But what makes them so original is the fact they have originated all the way from the early arcades and have hardly changed. The graphics are



Oeh, here's another title screen. This one says 'Options' on it though, See, subtle differences

far better (in some cases), but the gameplay is just as good as it ever was on the early versions, which to this day are still knocking around corners of some of the older pubs. The



You can see immediately the relationship between XPS and Stardust. Can you? Eh? Eh?



That green thing is your space mobile. It goes like the



The electricity bolts will fly up and hit your face on this level and I'm not kidding. Oh alright... I lied

days are gone where you would drink ten pints and challenge someone to a game of Asteroids. Admittedly, you would fall over unconsclous before you last all your lives, but the point is the fun was there to be had. Why don't they do this with the Amiga?

You may think YOB label live one of the

You may think XP8 looks like one of the many hundred shoot-'em-ups but I assure you. It features much more than your average blast-'em-up. If you can remember a game called Battle Squadron from the early days of the Amiga, then imagine

that but with better graphics and a more polished look and feel.

The programmers describe if as "Banshee with sugared Stardust on top". You can see why too. It has the playability of Banshee and the typical ray traced graphics we saw in Stardust but, in my opinion.

The game features five levels which contain all those clever ray throad-like baddles like Stardust, so it's easy to see that they've taken time with the graphics. There's also a two-player mode so you and a mister can combine force and try to destroy the enemy. As you destroy more ships they will

reveal power ups and more weapons - there are eight all together and can all be



Here are some medals. I presume this is something to do with ranking. I said RANKING



This is a nice big beastie. It's a beastie and it's big. If you dealnow it you will be rewarded with a beatly names up.

€ The programmers describe it as 'Banshee with sugared Stardust on top'. You can see why too •

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PURSER 2: CONTINE, RESHORIO
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PURSER 2: CONTINE, RESHORIO
PURSER 1: CONTINE, DISSTICA
PURSER 1: CONTINE, DISSTICA
PURSER 1: CONTINE, DISSTICA

There wasn't enough space to explain all the options so I took a screenshot of the screen to hurry things along increased five times in power. Finally, when you reach the level end you will be confronted with a huge beastle which will throw out homing missiles, amongst other things.

in any is well presented to consider a consideration of the control of the contro

You can austomise the options so you can control the game. Everything involved in the game can be changed which is a good thing because if there's something you don't parfacularly like you can just after if o scrap it completely. This just shows how much thinking has aone into the development of this aame.

Final word

Overall. If features some excellent graphics and sound effects and is one of the most enjoyable shoot-tern-ups ever to be released. It's what games everywhere have been crying out for since the demise of games like Xenon and Project X. Order a copy now, you won't regret it.

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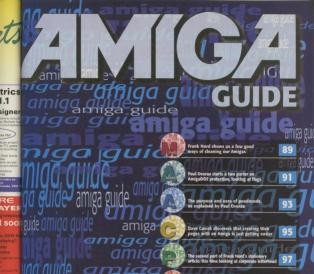
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es with his back to basics

Continuing his spaceship creation, Paul Austin adds the finishing touches with texturing

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When your Amiga is filthy and your screen dusty, what do you do? Frank Nord'll tell va



First aid for Amigas

miga owners of long standing are a mixed bunch. For every one that is scrunulous about the cleanliness of his or her machine, there will always be the 40-a-day user that casually keeps his Coke inside his or her keyboard, presumably so they can tip it out at a later date when the fridge is empty. For all you slobs out there, you could actually make an effort to ensure your machine is nice and tidy for special accasions - such as for when your neighbour comes round for tea and to play a heard-to-heard match of Warms or mowhe just maybe, you might need to show your Amiga's best efforts to someone in order to get a job. Well, you never know. So the thing is, what should you use to make

sure your Amigg is kept in tip-top condition? And no, a map and bucket filled with bleach is not a good idea, at least not while the machine's on. You shouldn't even go around spraying Mr Sheen everywhere either. Your best bet lies in purchasing a few bits and bobs from your handy local electronics store. In the UK there's a chain of shops (and a mail order service) called Maplins - there may be a similar thing where you live - and you should proceed there at full speed in order to procure some of the items I will mention in a ma

SPARKLY

The sorts of things you will need to get will vary

depending on whether you have a big box Amiga, or just on A500, 600 or 1200. For these machines you will rarely, if ever, need to visit the internal working of your Amiga, but most people have the lids off their 2000s, 3000s and 4000s more time than they've had dinners that were ha but that have become a bit cold and congealed because they were busy doing something on their computer.

So what do we need to get to keep the machine not only in full working order, but also looking as sparkly as the day you removed it from its packaging? Starting with externals, the keyboard and mouse are the items that get the



r's work is never done

> most dirt on and in them. Typing when you've just had a pop tart may have seemed essential at the time, but sticky keys attract arime in large quantities, so the first thing we are going to want is some sort of cleaning product. Most electronics stores sell a range of aerosol-based foam clean ers and you should look for one that is also antistatic and preferably inert so you can spray it everywhere without the fear that it may damage some component in your keyboard or floppy

To clean the foam off you can either use lint free cloths (also available where you get the spray), cotton buds, or, best of all, a pig hair brush. These are a lot harder to find, but the effort is worthwhile because they clean your

keyboard best of all without being too harsh. For the outside of your mouse these same implements will be fine and for the inside you can either use a cotton bud, your fingernail (1), or a dedicated mouse cleaner which looks like a barbell for a hamster and has absorbent pads on each ends

which you can spray cleaner onto You can also use the same spray cleaner for your Amign's case and monitor, but you should try to get screen wipes for the monitor's screen

itself, mainly because it is quite hard to achieve a smear-free screen using the foam cleaner If you want to really get that deep down clean feeling in your keyboard (and inside your machinel. Maplins also does an aerosol containing inert gas that can be used to blow the dust out of cracks, crevices and other hard to reach areas of your machine. This stuff is also ideal if

you have used cloths that aren't quite as lint free as they perhaps ought to be and have left bits all card user and you really want everything as clean as clean can be, you can remove your cards from their slots and buff up the contacts by using a normal pencil rubber on them (the white

plasticky Stabilo Boss eraser is particularly suited to this purpose). Make sure you blow away the bits of rubber before you re-insert the cards in

MOMENTS STICKY

Last, but not least, I bet you have a whole stack of floppy disks that sit on your desk with the labels half ripped off from where you were Well, Maplin even have a cure for this ill with a spray-on label remover. It works beautifully on pretty much all the labels I've tried it on You simply spray it over the entire label and leave it for a few minutes and then the label be able to remove the whole label in one go.



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address and daytime telephone number to: PINBALL PRELUDE FUTURE COMPETITION. Ellipsy Software, Station Yard, Station Road, Russington, Steaford, Uncoinshire, NG34 9DG. Paul Overaa takes a two-part look at those protection bits that Amiga DOS provides

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37 3PX



Protection racket uncovered

very Amiga disk file has a selection of protection flags associated with it that identify such things as whether the file is deletable or not, and you see the states of the various file flags whenever you use the LIST command. There is another Shell command, PROTECT that allows individual floas to be set or cleared as required. At this level the flags are represented by letters: 'r' signifies that the file can be read, 'w' that the file can be written (altered), 'e' tells you the file is executable (in other words it is a program), 'd' that the file can

be deleted, and 's' that the file is a script Two other flags, 'p' and 'a', are also avail able, with the 'p' entry being used to signify that

STRUCTURE	FileInfoBlock	.0	
	LONG	fib_bisktey	
	1,085	fib birEntryType	;If < D, then plain file, If > D a d
	STRUCT	fib FileName, 108	phull terminated. Max 30 chars used
	LONG	fib Protection	oBit mask of protection
	LONG	fib_EntryType	
	LONG	fib Size ; Number of	bytes in file
	1,085	fib KunBlocks	; Number of blocks in file
	STRUCT	fib DateStamp.ds 512EOF	State file last changed
	STRUCT	fib_Connent,80	;Null terminated comment
	UNDRO	fib_GunerUID	;Owner's U[1]
	UWDRD	fib_CunerGID	;Swner's GID
	STRUCT	fib Reserved,32	

the file is oure, i.e. can be made resident and

therefore kept in memory to be run and re-run without ever needing to be re-loaded. There's nothing intelligent about this as far as AmigaDOS is concerned, it takes these flag bits at face value If, for example, you set the pure bit for a program whose code is not pure. AmigaDOS won't realise this and will be happy to make the program resident recordless (not usually a wise thing to do!) The 'a' flag is the archive flag and this is set by

operations. It's because the 'a' flag is always cleared when a file is edited that these utilities are able to identify files which have been

changed. CHECKING UP

The easiest way to check the state of any of the protection flags associated with a particular file is simply to use the AmigaDOS UST command. Any lettering scheme, whilst those which are not set will be indicated by dashes. If, for example, you create a text file called myfile.txt, and then list the

contents of whatever directory you created it in, you'll see an entry which looks something like:

Today 14:09:14

The line recresents the filename, the file size, the current state of the protection bits, and the date and time of creation. To protect this file from deletion you would clear the 'd' flag using the Shell command:

where the minus sign before the 'd' signifies that the specified flag bit should be cleared. Having done that you should be able to confirm that the delete flag is clear using the LIST command, and if you then try to delete the file you'll get a 'Not Deleted' error message along with a note to the effect that the object is protected from deletion. Reset the flag using the same protect command but with the "+d" option and the file becomes deletable again

PH	steards				
#F8 181.				I1-23	Name of Street, or other Persons and Street,
			#		
Treatury "City		ise - 250 bin	to used	1	

up by using quite high-level DOS library functions

LOOKING

Although AmigaDOS commands use letters for the various file pro names and nowadays you'll find quite a collection of these defined

BITDEF FIB, WRITE

; program is re-entrant and re-executable ; bit cleared whenever file is changed

protection flags. You never need to access this file header data



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AMIGA COMPUTING

Paul Overaa outlines a script development technique for writing programs



Designer scripts

hen writing ARexx scripts of just a dozen lines or so, most people will tend to do it difficult so at tend to do it difficult so it were anigo and just typing in the code which they feel will do the job. And that's line — even if the script doesn't work first time, a few bug burts will usually find and eliminate any problems.

The only bod news is that this "such it and see" method of reating sights region play works to main program. As singing set large you need to be a little more systematic and, in bot, the more sorpt, the better the results are likely to be. One file to be consistently reliable and capable of producing code that, but works to show that to be consistently reliable and capable of producing code that, before the size of the that we call make, enables were large scripts to be created relatively easily.

The idea is to first create the main structure of the script using nested subroutines coupled with a sort of 'ARexx pseudo-code'. Howing got this initial basis of the script right, the refining stages, i.e. converting the pseudo-code to real ARexx statements, is relatively straightforward.

KEYWORDS

To provide an example. I've chosen a nice easy task - namely the creation of a script that will search a given text file and count the number of occurrences of a user-specified keyword in the file, underlining all the keywords found. The ordering of some of the things that such a script will need to do should be fairly obvious. You do for instance, need to open a file before you can read from it. Similarly, you must know the name of the file before you can open it. So collecting the filename and keyword, and then trying to open the file are fairly obvious first steps to be corried out. We do of course need to remember that the specified file may not exist and cater for this possibility. With the approach I'm advocating the code for, all these eventualities LL LL LL LL LL LL

become isolated into separate functions and I'd sketch out these details something like this:

Collect name of file and keyword to search for if file Opened OK then call FileOpenOK() else

If the file was not found we would presumably like to put up some sort of error message. Pseudo code for these actions can be written very easily:

FileOpenNotOK: Display error message and flash screen

If, however, the file did open OK we would want to ead lines of test from it and examine the words in each line. The trick now is to concentrate on just the line reading part of the problem. It should be printly obvious that some loop code is going to be needed and by assuming that an ExamineWordilly contine exists that can bendle the word-related issues, I can write the line reading loop very easily indeed:

FileSpenOX:
do while NOT end-of-file
Read a line of text from the file
call ExamineWords()
end

Notice that I'm successively working through the tasks that need to be carried out and having now got to the stage where lines are being read from the file, the next stage is to think about what must be done with each line, i.e. to decide what actions our Examine/Words() routine will have to

We need a loop to read each word from the fine and cleak it to see whether it notifies the sup-piled layword or not not, to cost for possible processes were not not, to cost for possible costs of fine to the cost of fine costs of fine to the cost of fine costs of fine to the cost of fine to the cost of fine proclam in the cost of the problem is that we need how weight of displaying a word in -nutrities for the form -nutrities for the cost of the problem is that we need how weight of displaying to word in -nutrities for the form -nutrities for the form -nutrities for the cost of the problem is not not provided function cell inferences into the pseudo-code starts like fix:

ExamineWords: For each word do

do

if uppercase keyword=uppercase word
then call ShowUnderlined()
else call ShowPlain()
end

These AREAN pseudo-code sketches represent in the main jobs that have to be performed. Creating a bisoprist face in the condition of the property of the condition of the property performed years and years are property of the property of t

The reason is that by exposing this stem I'm able to make all such definitions available throughout the program, yet still keep them all collected together at the start of the code for easy

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Listing 1: Ar ARexx style pseudo-code sketch of th tasks to be performed

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Dave Cusick wonders whether the Amiga is finally catching up with the Mac and PC



Leading the way

here have been incredible leaps for word in Anigo Net software resettly, with the appearance of such desent programs as ISrowse, AMFP, AMFC, Vodoco and YAM. These draig the Anigo and line with the PC and Mac in their respective areas – in some case, even chead of the field. Indeed, I recently discovered that a end clares prodest of mise uring a Sun Specification non-integration couldn't in fact read a MME-encoder catchemer III date in with Vodoco.

At last there are even some impricas way of sing AmTCP to what fine and nin up calto-nonical phone bills. Witness AmSillet, which on a basic level allow you and a Net Resident of draw on the some screen. The real strength of AmSillet, however, lies in the Alexan interface, which mokes it possible to pity simple generation of the some screen. The Net wing scrips with an Nooghik And Crosses, Bodgameno, Checkens and Chess over the Net wing scrips. Vivolving generating how in relabelled with the data ballots and rules, and others, and others are available on Amsillet Similar end or per some confidence and contribute, and others are available on the Amsillet Similar end only see some notice complete.

There's also an Internet 'phone program for the Amigan now, whereby you can chart with somebody anywhere in the world for the price of a local call to your FEP. It's called Amilhone and a local call to your FEP it's called Amilhone and it is quite impressive ofthough, as yet, it is not compatible with similar programs on other flat form. To use it you will, a course, need a sound-flow, To use it you will, a course, need as sound sampler, and a result frat controlly essential – reasonable results can be obtained using a 14.4k modern.

With the Web gaining so much attention in the media, it was also reassuring to spot the And the second process of the following and the second process of the second process of

appearance of a few new HTML editors on Aminet recently. Although the test editor dedor HTML Heaven has been knotking around for while, it's not a patch on the newconest Webmaker, a MUI program by Poscal Rullies which is currently of v1.1. Apart from speed problems when editing large documents. Webmaker is only to use. It doesn't wer offer

WYSIWYG but a decent Web browser can

easily fill this gap. There is also talk on IRC of a

program called WebEdit which is now in beta

and there's no better

results with than IBrowse

testing and could well challenge Webmaker's current supremacy.

curieti superflocy.

However there are still some important oreas where our beloved machine locks quality soft ware. While are hill South noted a couple of issues ago it would indeed be nice to see linguisment by programs like Classific and implementation. The couple was implementation of the couple of the co

or similar. Whilst all fairly copable, none are particularly easy to set up and hey are still some way short of the unbrokedly, Wnoedfloam feel of the other leading Amiga Net applications. He Amiga Surler pack does not yet seem to address this problem. Any industrious programmers out there?

Another sensible suggestion made on IRC

Another sensible suggestion made on IRC recently was that someone should write a RealAudio datatype so that the Amiga could make use of this increasingly popular audio format. I don't know enough technical details to know if this is even possible, but it would contain be an autone development if it was.

Certainly be a welcome development if it was.

you've any comments, suggestions of queries you can contact me at dave@dcus.demon.co.uk, or

BATTLE OF THE BROWSERS

At the time of writing, opinion is very much olived in the mine of writing, opinion is very much olived in the America (McCohanels on whether AMerica (McCohanels on whether AMerica (McCohanels on the Letter Investment, Olivedorletty, these in billy across a wide reage of Amiga photies and the FTP and Mail plugies within are already available on Aminet, However, in its current version. AMerica and young the Mail America (McCohanels on Aminet, However, the Aminet of McCohanels on Aminet, However, the Aminet of McCohanels on Aminet, McCohanels of McCohanels on Aminet (McCohanels on Aminet (

The latest version of IBrowse is 0.81 although by the time you read this it could be another release or two further on in it.

development. Version 0.81 certainly seems fairly stable on my system, but it appearenly still crashes occasionally on certain machines. However, the new internal image decoder seems excellent, and the MUI-based GUI strangely appears faster than the fairly ugly and much less configurable ClassAct GUI of AWeb. I must confess that at the moment, I fire up IBrowse considerably more often than AWeb.

Meanwhile, I've still yet to I'g eyes on Mindwalker, aku Veyager, the official Surier Pack brewser. The wait also continues for the multitude of other browsers promised for imminent beta release for some months now. Little seems to be happening, for instance, on the home pages of Juggler, Hyperion, and the particularly interesting lavo browser port PJonni.

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Our second guide to earning your keep by creating stationery packs, by Frank Nord



Completely stationery

elicane back. This nosh I is ging to blove a tably of the translate side of stationary – far for basinesses. As will personal ferrence heads, the dise for your as the layout gay is not to trade uncesses. As will personal ferrence heads, the dise for your as the layout gay is not to trade unnecessary with the personal Flyand and a contract of the co

When you are designing stationery pack for a company, the most important thing to beer in mind is that there has to be a consistency to your design across the different parts of the pack. Never change fonts for the compliment slips, or centre text on a business cord if it is all right justified on the letterhead, compliment slips and

PRINT OPDER

What less go into your stationers pack is up on, but they should always include interheaded paper, continued in any similar the state of paper, continued in a page special policy to the page special policy to any wear to include coloured continuation, compliants sign on business cards. Other items may occur to you, expecially if howe one of proportioned, another policy and page special policy and page special policy and page specially in the page specially in the page special policy and page specially. If skillings not worth specialing the money unless you howe a use for the product.

The other thing to bear in mind about stationery pocks is that it might not actually be commercially viable for you to produce hundreds of printed sheets (especially if you have to use an inkjet printer), and business cards of the sort that



can be rus through a loser printer orse's rail impressive as ones printed by offset lifeography. This is where you really want to befriend your local printer. A lot of printers can be very suited offshild fry our enter using a Moc to output your comero-ready antwork, but my to personde them to experiment with what you are producing—any printer worth his soft will recognise a popteriol customer when he sees one.

So how do you go about producing cameroready antwork for a printer? I think I would probably be right in assuming that very five of us have an imagesetter in our back bedrooms, so what are the alternatives? Firstly, you can produce camero-ready antwork on your own printer, (but if you are using an inkiet, make sure you are using the best possible quality paper, one that desen?

bleed or wrinkle, and you can forget this option if you are still using a dot matrix of any sort). Remember that if you are expecting colour from the printer, you will need to give him for her) separations rather than colour output from your

OUTPUT

Alternatively, you could give here posture? Her find they can then output on their imagesters. A sopposture file find on 19%, but posturely private to disk! is a large ADCI text file find too to be set with modern to take not the prieters on fall. If you have pictures in your document file posturely file for the private via file of the prieters of

One fixing to bear in mind in the factory ow will be using for the document. If they show you postscript output that has the courier for though young of our on, then the chours for the imagesent dosen't have the facts it needs to on get around this in one of how way. Two one either any two or document output your document output you for couriers for the post your document output you document output you do not have you you profess that in library, or you can take the facts in the printers are well as the document, but make sure, if you choose this option, that you are not brackly output you do not not provide you have you will not the document, but make sure, if you choose this option, that you are not brackly output you have you will not the document, but make sure, if you choose this option, that you are not brackly output the young copyright by honding over the fortility as you need a provided by the young over the fortility and you will not have young the you

COLOUR CONSIDERATIONS

If you are gaing to be producing calour camera-ready servers, for a printer to use than your choice of DTP program is gaing to be very important. On the Aming the only carriedly orientate commercial package is Pagadirams 3. Politique is a realisable from the publishing but it is not being producing the control of the producing package. The description of the producing the description of the producing colour executes because ever since Pagadirams (and only the producing colour executes because ever since Pagadirams (and only in the pagadirams (and only in the pagadirams) and only in the pagadiram (and only in the pagadiram) (and only in the pagadi

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Phil South continues his new series about how to plan an Amos program project



Back to dsics

s I said last issue, interface development is a crucial issue in the making of any new bit of software, and the user should know just by looking a your screen what he has to do and which button he should press to get the effect he's looking for. designing the interface

Taking our trusty pencil and paper, we draw out the look of the screen we're looking for. I pre fer the propelling pencil myself, partly because they don't need sharpening but mostly because I think it makes me look a bit technical. The exam ple we'll be using over the next few months is an electronic product brachure whereby people can look at your products and check out the specs. You could go havwire and show people how the things sound too, but in this case we don't need to. This design could be adapted to any kind of multimedia program like an interactive recipe book, a reference book, in fact anything where you've got a lot of things you need to show and you want the user to be able to find out what

Sketching out the interface is the easy part. What's hard is finding out where to put the but tons on the screen. One of the easiest methods I've found is to use Amos itself to draw baxes on the screen, thereby supplying yourself with the basic co-ordinates system you will be using in your mouse zones - the thing which senses the

words, the process is as follows

1. You decide an paper what your interface will look like, which boxes go where and which buttons etc

2. You get Amos to draw boxes in the right places, and by trial and error get them all lined 3. You save the screen off as an IFF file which

you then load it into Dogint, Photogenics or Personal Paint, or whatever you do your image processing in.

Basing the interface graphic on something you already have the pixel co-ordinates for is better and quicker than finding out the co-ordinates later. You can check out the co-ordinates using Dpaint, but I've found this to be a little bit tricky because Dopint has 0.0 down at the bottom left hand corner, and Amos uses 0.0 at the top left. For this and various other reasons I find the Amos route preferable. Keep it in the family so to speak.

Having made your button template, save the Amos program which made those baxes - we'll be needing it later - and save the screen using SAVE IFF. For example, I made the following program to draw my basic interface

Screen Open 0,640,256,16,81res

This produced the basic Amas screen you see on this page, which was skilfully wrought into the roughly finished interface design you can also see on this page. Making button templates in the next co-ordinate for the next button add 90 to the first number of x and v: 95 becomes 185. matches the main window by dint of adding up to the same amount of pixels. See? Work it out on paper and use a calculator, and you'll get it right first time

Amos is mostly a matter of mathematics, as in the

ohove example: The main window is 10+440 wide and 10+160 deep. This means the box is

540x170. Each button is 70x30 and has a

space of five pixels between them. To work out

WRITE STUFF

you nave any other Amos progri r queries about Amos, then ple rite to the usual address, which hil South, Amos Column, Am omputing, Media House, Adling ark, Macclesfield SK10 4NP, Ple and I see what I can do, okay? N questions asked... (Oi, what's going o in here? Ed) Nothing, nothing!

PSEUDS CORNER

The interface designed, you will then need to start figour example of an arcade game from last month as a

If there is a hit then activate hit subrouting

Next month we'll be going into this part in more detail

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Paul Overag takes a look at some programs for the Amiga



ost Amiga owners who use sequencers or trackers for making ware they use always tends to ac some way towards either helping, or hindering their 'creativeness'. Some packages, such as the now defunct Blue Ribbon Bars & Pines Professional, had a whole range of tools available that could massage existing musical ideas in such a way that at times it almost seemed to think for itself

The idea that computers could be used not just generating original music is not new and, even on the Amiga programs like Music Mouse (which ollowed users usually rather unsurressfully to try and create musical themes by moving the Amiga's mouse around), have been around for a long time. In terms of success stories, the only acclaim was Blue Ribbon's SuperIAM. Purists will argue, however, that SuperJAM wasn't a composing program in the strict sense (because it didn't create music as such internally it used prewritten sequences). Musicians didn't actually care about this - all they knew was that SuperIAM was easy to use and it could produce pronoements that actually sounded good!

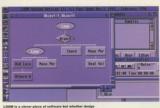
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Sequencers in the main do not go down this sort of 'algorithmic composition' road at all although Dr T's KCS does have a utility called the PVG (Programmable Variations Generator) which allows you not only to modify existing musical ideas but produce totally origina



musicians will take to it or not is another matter

sequences. PVG is a nightmare to learn about and even more of a nightmare to get anything useful out of. The manual itself says it all: "PVG is not optimised to produce music that is immediately pleasing to the average listener." KCS users doubtless agree with that sentiment because in almost ten years of being involved with KCS sequencer users, I've never once met onyone who felt that PVG had been creatively useful to

Another program that follows this trail is Dr T's

ENTER LOOM

the power of LOOM comes directly from its

internal sounds based, although a Midi version

cases, even the use of equations, You don't.

LOOM is certainly going to be great for experimenting and if you have a little knowledge of programming or are interested in algointeractive composing system, M. This is certainly easier to use than the PVG program but M. too. would seem to have received little acceptance from the Amiga's musical community in general. The package is, however, still available from companies like Off Planet Media Itel: 01159





Product:	LOOM
Price:	(q&q f2 +) 0E2
Phone:	01903 850378
Supplier:	SeaSoft Computing

Ease of use	70%
Implementation	80%
Value For Money	80%
Overall	80%

Steve White explains how you can create beautiful looking typefaces



nce of the most often forgotten skills of any professional graphic designer is the ability to create stunning look ing typeface, or fonts - not Amiga fonts but fonts that are drawn in a paint pack age. Drawn fonts became popular on the Amiga with the advent of the demo scene, with many demo groups adorning their productions with their name in big. bold and colourful letters

They came in all shapes, sizes and style metal, organic, plastic and in the most dazzling shapes. Maybe I'm going a little overboard on this fort thing but a good looking logo can make or a break a concept and the same is exactly true when designing fants on your Amiga in the comfort of your paint package. It's a good idea

choose a fon style that suits your picture





FIRE

to build a catalogue of typefoces and there are several good commercial products on the market offering a wide variety of fonts for every occosion. However, it is cheaper and much more fun to design your own

If you take a look at the Aces High picture take a closer look at the actual Aces High font, If you pull the fort apart you will begin to understand why I used it for that particular image. For a start it has been roughly copied from German lettering around the time of World War I - the Germany, which links the font nicely into the main picture of the tri-plane. It also evokes a serious and official mood because the subject matter can be considered serious || class shooting a man from the skies as serious). Now, you don't have RECDEFONIJKL HNOFORS'

.,"!EHODAW]] -=+\|\$\$++

Bevelled edges help lift your font from the screen Addison a spread fill the feet can be made to look like chrome

to be a Van Gogh to understand the links made above, but what this process does show you is how to pick a suitable font for the subject of the

was the bevelled edge. The bevelled edge

The first step is to use an Amiga font to



good understanding of your paint package's tools is essential to aid design

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COMPUTERGRAPHIC

There's more to keying than meets the eye, as Gary Whiteley explains



The key to keying



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...Chroma key the two together and you can be anywhere you like!

genlock serves live main purposes. Finally to synchronise two for some times mon; in the case of the PG per locking live lives of the PG Per locking lives out the PG Per locking lives out the PG Per locking lives out lives out the computer of the per locking lives out the computer of the per locking lives out and per locking lives and lives and

There are actually several types of keying, with luminose (brightness) and chromisores (color) being the predominost age(bas). There are actually several to a tunn for year Chroma (Key) and can be performed either digitally lar, for instance, in the case of an Amag gesticold, key and can be performed either digitally lar, for instance, in the case of an Amag gesticold, or in anologies blassion, depending upon the keying and video equipment being usef. Keying can also be performed on a video triginal as I server six ino mixing equipment foliaged as I server six in mixing equipment foliaged as

WRONG KEYS

So as far as keying with the Amiga is concerned, there have been several (largely muscussival) attempts to provide specialist hardware. This has either been integrated into special graphics cards for high box. Amiga are made evailable as add-ons for genfacks, most notably the Rockey on it which was designed to work with Rocke's own Rockey and which was designed to work with Rocke's own Rockey in the Notice Rockey combanding left a lat to be desired, though the reasonable for the card of the equipment.

keying) and subsequently output or recorded. Just as the Amiga must be synchronized to the video signal for gendloring to the successful, fine video signals included in keying must also be you recordly with between finer of the required time resulting in rolling maps which investigate body and look tertibe. When cornectly synchrol the electronic switching required to register fine electronic switching required to register for so or video signal with confirm will work coveredly and the signal will be not well.

PRINCIPLES

In any case, the principle behind keying is that the port of the images to be superinged to be the part of the images to be superinged to be uperinged to be presented by the corresponded by a corresponded by the second visited signal, with the gendocal section is superior to the second visited signal, which was predicted sections in the second visited signal, which was predicted to the second visited signal so that the faculty visited signal so that the faculty visited visited visited visited output from the gendoc. The result text or regulates capture over visited.

A shift fring fraggers is lare and channel keping with part of the Tourground image being switched our and the bockground image being switched our and the bockground image being switched our and the bockground image being clowed to key through With land keying, the crucial superair is the trightees of the foreground image. Imaging a book property of the white on a block bockground. By feeling this image to a suitably-exploited wison miser or keyer and satting the key level to work with the property of the special special and the property of the special special special and the postground video be seen, giving a marked view as if through it keylinds.

This is an electronic version of that movie

Socials, the Mate porting, where is clinic scene in protection of the portion of the centre of the post of the centrer to see the law action occurring behind the glant, orenter that the protection of the protection of the seed of the centre of the seed of the centre of the seed of the centre o

In contrast to luma keying, which works only an predetermined brightness levels, chroma key ing works by defining a specific colour to set the keying area. Chroma key is very commonly used in television today, most notably for superimpos ing presenters against background images (such as weather forecasters over their maps), or actors and pop groups against wild graphics and exotic locations. The most prevalent colours for chroma keying are blues and greens, since human skin contains very little of these hues and therefore will not adversely affect the quality o the keying. For superimposition purposes chroma keying is much more useful than luma keying, since far more control can be maintained over the subject, though it requires a degree of lighting skill to produce a good clean, shadow less key in order to make a convincing composite

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Paul Austin adds some of the finishing touches to his cosmic hot-hatch



Final frontier



Just two colours in this case - it's the diffuse map that does the real work

s promised in last morth's column, it's time to turn our attention to the tricky business of texturing. Now, before the plagianism complaints come porting in. I'll admit to steoling the following techniques from the master of the art, Mr. Ron Thomton – head animator and founder of Beblyonian Productions.

Okey, assuring the modelling stope is comtended by the common of the common of the comments. In other words, do all the bits of the ship that need specific textures have appropriate usfree names? To do this, por into modeller, load the ship, go into polygon mode and using the Amiga and We key combination, run thatoigh all the assigned instance. E all the appropriate segments of the ship are selected for each you're ready to rock.

Now, go back to layout and position the ship so the camera is looking directly down on the model. Next, create a key frame and open the

FIRST COAT

After you've saved the specular map, load up the finite texture templete and you can begin adding the actual point job to the craft. From here on you're on your own. The only rule is to make the paint job accentuate the lines of the ship. The only other pointer is not to be official of using yibrant colours - sticking to three or four basic colours is wise because most ships of this type need to be instantly recognisable.

After saving out this final map it's simply a matter of adding the textures to the appropriate surfaces and

Next month we'll add the engine flares and the allportant universe for our creation to cruise around in.



of the diffuse texture. It's here that a good airbrush comes into its own



takes to the skies

camera requester, setting the zoom factor to some where around 30.0. After making the adjustment the ship will need repositioning to fit the screen

The reason for this odd procedure is to generate a flat template image of the ship that can be used to generate the image maps required for the test-ring job. Altering the zoon simply produces the flat-test image possible, thereby removing any lens distribution or perspective effects that might cause errors in the image maps.

Once everything is in position, set the camera to videores with law anti-aliasing and render a frame with flat lighting. You may need to render template images from a variety angles to create the templates for all the maps you'll need, and this

may be baring, but it's time well spent.

Now you have your template you can quit light/Wave and load up your forourite point package. Needless to say, Draint will do the job but, ideally, a true 24-bit point package with a soft

edged oir brush is best.

The key to fine whole process is using Layout's Reuble surface mapping options to the optimum. In this case, the maps have been applied in the colour, specular and diffuse fields. Arguably the most important of these is the diffuse field and.



The specular map is pretty much identical to the difuse, but there a few highlights on leading edges and fine details

therefore, I recommend that's the one you start with. Although you'd expect the colour field to add the majority of the detail, in fact it's diffuse that adds the key detail to any surfacing job. In our one it's used to add the point detail, load diffuse ences and key control surfaces to the wiregs. The colour field, on the other hand, is used primarily to add the markings and colour tones to the ship, while the specialize field provides the highlights, diffused imperfactions that add that essential feeling of various.

The first step is to fill the rendered templates with a constant colour — of light gray in this case — but don't begat to leave the original on it is very hardly for leaping track of eachy them the various user boos are on the model. Once you have you filled surface template, simply down in the various powel and comed surface. Next, fill in some of the newly created regions with variations of gray — the point job.

White on arithmath, now add some dint to the Upling on airthmath, now add some dint to the

Using educations with the panels, around the engines, and onywhere that dirt and dust would occumulate during the rigious of space travel. As a finishing touch you can also dot a few small detail shapes around the leature — this is a simple trick which adds detail with the minimum of effort.

City, see out, but don't does the diffus thus how we'll going to use it to build the specular map. This is a much quicker process. Select a very light gruy or off-white color and simply draw highly less on the loading and trailing edges of caused possits and features you think might not quite its prefactly in position, or othersafeley, how a shorp material code to them. It's a buffer but important addition that will bring the model to life in appropriate lighting conditions.

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