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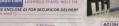
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The essential guide to Amiga gaming

Mortal Komba 2 on the Amiga, Mindscape gets sporty, plus news of many more releases set to hit the shelves soon

Beat the System 102

We give you some essential tips to Standast,

one of the toughest shoot-em-ups ever!

Preview: Valhalla: Before the War
We take a look at the latest Valhatia instalment from Vulcan
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System debate which games are likely to reach
the coverted number one spot this Christmas

Preview: Legends

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Salve Team, is currently at work on its RPG, Legends.

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We test run the A1200's latest accelerator board and see if it's fast enough for the job

Improve your child's literary skills with Word Construction Set

Final WRITTER 3 75

48

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just got more powerful

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ACCESSORIES





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Even if you've no idea why not have a go.

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Quality Software



Aura is a brilliant new concept in high-performance, yet affordable sound sampling for your Amiga A600 or A1200 computer. This breakthrough is brougl about by revolutionary hardware which plugs into the PCMCIA slot to achieve extraordinary sampling performance in glorious 12-bit sterso, with optional direct-fo-disk recording.



A screenshot of the powerful samp

L - C - EL

The Aura audio/sampling suite is probably the world's most powerful, flexible and easiest-to-use Amiga sound software package to date! This is no idle cla just look at some of the features of this superb sound sampler:

- Record/Play/Edit 16- or 8-bit, mono or stereo sounds to memory or direct-to-disk.
- Real-time monitor of input with moving spectrum analyser and oscilloscope.
- cut, paste, insert, delete, fade and volum Editing controls work on both samples in memory and on hard disk.

 Record samples into memory at rates in
- Record samples into memory at rates is excess of 60 kHz (A1200 12-bit steres) and direct-to-hard disk recording at rate in excess of 40kHz (A1200 12-bit stereo with fast RAM).
- to fully programmable, single source sound effects can be used in real-time and on samples held in memory or evon hard disk, plus effect preview.

The Hardware • Achieves a signal to-

noise ratio of 72d equivalent to exp sive 16-bit system • PCMCIA credit co

maximum performs and expandability. • Quality phono outs

 Quality phono outp with Amiga audio m
 Very high sample re playback speeds.

- ound sampler:

 Block-oriented Sample
- Advanced digital filtering wir 3-dimensional Fast Fourier
- Transform interactive display.
 Real-time playback of sample under MIDI control (requires).
- Load and save IFF, RAW and AIFF sample formats.
 Over 60 fully programmable.
- Over 60 fully programmats multi-source, sound effects on samples in memory, in real-time and to memory of hard disk (with effect previous realities).

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Can I have your bids please

After the rumours, speculation and hot air floating around over the last several months, it would appear that a conclusion to the Commodore crisis is about to be reached. Fairklyn Wilson, the liquidator in the Bahamas and the management buyout group headed by David Pleasance have at last come to an apreement.

The final papers were all set to have been signed on October 15th but due to last minute legal details, the official signing has been delayed until

codemoterate.
One of the thorns in the side of this whole affair has been the reluctance of some creditors such as Prudential Insurance in the States to allow a Bahamian court to decide how much money they receive through the buyout. They have Threatened to have the sale of Commodore assets owned by American companies determined by an American companies determined by an American.

Unfortunately, one of these American-owned assets happens to be the Amiga computer technology, the very hub of Commoders. If a compromise had not been reached, people feared that the American judicial system would have caused massive delays to the already lengithy proceedings. To

sort this problem out, it has been decided that an auction will be held to maximise the amount of money the creditors are owed.

The procedure is simple. Now that the trustee and the Pleasance group have nearly signed an agreement, it will be presented to the Bahamian Duyreme Court on or before November 4th. Hopefully, within the following week, the Bahamian Supreme Court will open the auction and make the value of Pleasance's bid known to the other potential buyers. That means CEI and Escorn at this point – others may well access.

These interested parties will then have the option to make their bids higher than Commodore UKs. This procedure should be finished within two days and, if Pleasance's bid has been exceeded, then C=UK have a final chance for one more bid.

Once the auction has ended and, if Pleasance's offer still remains the highest, the Bahamian court will accept the agreement made with the trustee. If not, the court will throw out the agreement and

not, the court will throw out the agreement and award the assets to the winning bid. In theory at least, we should know the result of this auction next month.

ELSPA * E

Telephone fraud crushed by ELSPA and US Feds

With the aid of the US Secret Service, ELSPA (European Leisure Software Publishers Association) has cracked an international telephone fraud ring, Following a raid linked to the Northumbrian "Living Chaos" Bulletin Board in June, ELSPA found a large number of 14 digit AT&T calling card numbers.

ne, ELSYA found a large number of 14 digit \$15 calling card numbers.

These let pirates make as many transatlantic lis to US software bases as they liked without ining charged. Down and uploading pirate ining charged. Down and uploading pirate sterial can take hours of modem time, producing

nave to foot.

After making their own joint enquiries
AT&T, the US Secret Service was brought in to
ELSPA and made six arrests in both the US
JK. John Loader, chief investigator of ELS
Crime Unit, believes that they have taken a
step forward in telephone fraud.

It is hoped that by cutting of [printer] free call shallow, the BSS will die from within," comnited Loader to the industry's newspaper, pupiler Trade Weekly, since without the shilly sail the USA for hours at a time the UK printer have no access to the listest stoles nother have no access to the listest stoles nother honder success story for ELPA was the raid ride of by the Crime Unit and Weet Yorkshire co on it satis at Cross Green car boot sain in died They stated over 7000 disks with a quantity computer hardware that had an overall estimat-

If you have any information that you feel sho reach the attention of the Crime Unit, phone in c fidence on 0395 833810.

Pleasance words

The celebration party planned for October 13th to launch Amiga International was postponed. David Pleasance is confident though that it will happen at some point in the near future. As for the future plans of the company if the bid does go through, Pleasance is sure that with the confinual delayed buyout, there won't be much stock available for Christman.

CD32 units on the other hand have been pulled in from subsidiaries throughout the world and will be in ample supply for the Yuletide season. Any doubts that the Amiga can survive such delays are firmly refuted by Pleasance: "Wo have huge back orders from round the world. As long as the Amiga is known as an ongoing product, it will be okay."

If successful with their bid, the CD1200,

If successful with their bid, the CD32 expansion kit will all be making an appearance at some point during the spring. As for the CD64, Pleasance firmly denied the rumour, calling it "complete and utter nonsense."



"As long as the Amiga is know as an ongoing product, it will be okay."

NEWS BRIEFS

Imagine upgraded

The highly popular and critically acclaimed package, Imagine has recently heen undated to 3.1. The 3D rendering software features a host of new and improved features - new textures and global F/X, state morphing, full DXF saving, smart bones, backdrop image loading and more.

For more details, phone Impulse Graphics on 0101 612 425 0557

Creating a role

As a supplement for Amos, the popular releasing "Writing Role Playing Games In AMOS". The book gives ideas, tips and inside information on the ever-growing genre. Also provided in the pack are two disks that include a sample game called "The Black Tarot", a program to generate large mans and screens of graphics to cut out and use in your own software.

Contact Kuma Books on 0734 844335 for ordering information.

Shanning

Any doubts that confidence in computer technology sales was beginning to affect the stocking decisions of major retailers have been quelled for the time being with the announcement of two new stores from Virgin and Dixons.

Virgin opened the first stage of the world's largest entertainment store called the Videodrome in London on the 15th November. As well as a vast stock of films music and comics, there will be a floor dedicated to games software by the end of November. The full completion date of the Oxford Street-based £10 million project is set for Easter '95.

Dixons plans are aimed at providing a new shopping format branded "The Link" They are promising that the new approach will be "a radical and innovative approach" to retailing.

"The Link" will sell mobile telephone services, satellite, on-line computer services such as CompuServe and a host of other goods. The company hopes to have eight "Link" stores open by February 1995 based mainly round the London area

Nons

In our review of Image Master last month, we forgot to include a product box for eager purchasers. The package Ramiga International on 0690 770 304.

A touch of Stylus

With inkjet printers coming in to the affordable reach of most computer users, Epson has upped the stakes with the release of the Stylus 400, a mono inkjet retailing for E225. The printer features the Piezo print-head technology that Epson says is normally associated with high-end

products.

The head enables more precisely formed ink droplets

The nead enables more precisely formed ink original which can be fired accurately at high speed to produce sharper printed pixels at 360 dpl claim the company.

"We expect to shake up the market with this announcement." said product manager, Robert Clark. "By introducing Piezo qualify to a low-end product we anticipate gaining significant market share from our rivals. We promise high reliability and low running

Also making its debut on the Amiga is the EPL-3000, a laser printer retailing for £399. The printer ofters 300 dpi. 13.44, a base memory of 1Mb and various upgrade options such as additional language emulations and interfacing to allow the printer to be used as a shared resource. For further information, call Epson on 0442 303681.



Riding the Lightlllaue

Any serious user of the premier 3D animation package, LightWave, should be interested in the US magazine, LightWave Pro, a monthly publication that deals solely with how to get the best from the rendering package.

Now available from Phospor Productions, users can subscribe to the mag on 0843 292150. For those wanting to purchase the actual package, there are five official UK dealers at present - Premier Vision 071 721 7050, Alternative Image 0533 440041, Ramiga 0690 770304, Zen Computer 061-793 1931 and the 24 Bit Club 041- 946 2191

Peace of mind

After the introduction of the rating system for games, ELSPA has launched the Games Player's Charter in a bid to help parents make informed buying choices suitable for their children. The Charter has been incorporated into a leaflet which is split into three sections - commitments to parents and gamesplayers from the members of ELSPA; advice to parents, and a checklist of guidelines for games players themselves.

Sadiv. unlike previous generation's toys such as model trains or dolls, parents tend to find computer and



video games complex and inaccessible." said Mark Strachan, chairman of E LSPA. "As a consequence they have tended to view them with a certain amount of unwarranted suspicion. This is why we are introducing the Charter and the Parent's Guide - as further reassurances to parents."

For all parents wishing to obtain a leaflet, pop in to your local computer retail store to pick up a copy.

Parent's Guide fears about the use of computer games

Sounds are us

After the successful launch of its budgetpriced sound disks, Mediacraft has been inundated with callers asking for specific samples

While not being able to afford the necessary hardware to produce the indemand sounds, the company has set up the Independent Association Of Sound Developers.

The group's aim is to produce a cataloque of affordable sounds where sy nth owners or programmers can 'm arket their efforts through Mediacraft on a royalty basis. Registration costs \$5 and For more details, contact Boy Ward-

I F Atanuaran 31

With the arrival of Final Writer release 3 t his month, the other giant of the Am iga word processor scene. Wordworth is set for an upgrade in the shape of release 3.1. Released at the recent Future Entertainment Show the latest version is faster features a set of new commands, better text filters and enhanced PostScript support.

For A1200 owners with one disk drive and 2MB of memory, the 3.1 SE edition has also been unveiled to bring the powerful word processor in to the grasp of low-end users and retails at £49.99.

The full 3.1 version costs £149.99 and Digita can be contacted on 01395 270 273.

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World of Amiga keeps on turning

Everything would appear to be in place for a successful World of Amiga show come the 9th December. Apparently, according to the organisers, there have been numerous enquiries in both ticket sales and space booking.

The interest has been incredible", commented David Pleasance, joint-managing director of Commodere "Although the show is still two months away, we've sold two thirds of the space already. That's as good or better than in east veers."

For ticket orders, phone the show hotline on 01369 7711.

CD Vision rolls out

To headline the recent announcement of FMV films and TV programmes for the CD32, CD Vision has released three episodes of the award-winning EyewMness series. Each costing £9.99, the viewer has access to 30 minutes worth of material on each CD.

Cartoon fans can also snap up a selection of animated classics with 60 minute CDs featuring Bugs Bunny, Popeye and Superman among others. These are also retailing for £9.99.

Keeping track

For those who need to keep a track on time while using their Amiga, an external clock cartridge has been released by Siren Software costing £19.99. Working across the whole Amiga range, the clock comes with full installation software and the device itself fits onto the disk drive socket.

For more details, phone Siren Software

Painting by

on 0161-796 5279

Computer To coincide with the World of Amiga exhibition in December, Almathera is releasing Photogenics, a package aimed at both graphic designers and painters alike.

tion in December, Almathera is releasing Photogenics, a package aimed at both graphic designers and painters alike. Offering image manipulation (Jpeg, GIF, IFF and so on) to change formats, the title also allows the user to paint the images with a variety of different brushes.

The makers claim that the package offers many facilities not available to Mac and PC owners and costs £54.95. For more information, contact J Bruno on 081 687 0040.



Christmas is here again

Described as "humorous", Visual Promotions has released a series of Christmas cards featuring computer-related covers. There are four available that can be bought individually for £1.65 or £6 for the entire

The cards can be ordered on 01303 245378.

Computer Xmas cards: An alternative to the usual Yuletide offering

Indi drives

Indi Direct Mail has reduced the price of its Smart Stor plus Amiga 600/1200 external hard drives and increased the capacity. The 214 Mb Smart Stor plus, previously selling for £249.99, has been replaced by a new model selling for £199.99.

The 428 Mb version has been replaced by a 528Mb model while remaining at the same price, £314.99. For more details, phone Indi Direct Mail on 0543 419999.

Minimum money for mice

For those in search of a new mouse for their Amigas, Wizard Developments has released two new mice for the machine. Priced at £9.99 for a 400 dpi mouse and £19.99 for the optical rodent, they come with microswitched buttons and the optical version also includes a free mouse mat. The company is also releasing the Saturn

Amiga floppy drive for just under £50. Featuring a Sony drive, enable/disable switch and anticlick as standard, this and the mice can be ordered on 0322 272908.

Animated effects For video users who need to expand their DTV

software, Chroma are on the verge of releasing the DTV Toolist Volume One. Featuring various television-style effects such as low-res and interlace wipe anims, the package costs £29.99 and comes in a video case with a fully illustrated user quide to aid operation.

guide to aid operation.

The pack works in conjunction with any
Amiga-based paint/animation program and can
be ordered from Chroma on 01328 862893.

New (D32 Xmas pack

Even with the buyout in the Bahamas dragging its heels at an embarrassingly slow rate, SDL has brought together what looks to be one of the most tempting bundle packs for potential buyers of the Commodore console. Featuring the system itself and one joyand, purchasers are also provided with seven games to play into the early hour. Cannon Fodder, Libertillon, Microcoma and Ultimate Body Blows are some of the littles that which we have must described Collection.

e up the new bundle called Critical Zone. riced at £249, SDL can be contacted on 081-309 .

AC joins IDG

Amige Computing has been part of the Europress magazine empire for the last six years. Along with 10 other magazines published by the group, it has been sold to IDG, the US-controlled multinational that forms the world's largest computer magazine publisher. "IDG is pre-eminent all round the world, with more

than 220 publications in 64 countries," commented the founder of the Europress Group, Derek Meakin, Derek Meakin, significant gap in this global network has been the UK. With the acquisition of the Europress titles, IDN has a core business with which it can expand to become the major player here as it already is in so many other countries."

To our readers, the deal means the continued suc-

cess of Britain's most informed and concise magazine for the Amiga – Amiga Computing.

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IAMS

UK

Running out of patience

It's a pretty slow news this month on this side of the Pond. As the US watches the long, over-Commodore. US companies seem to be taking a wait-and-see attitude when it comes to new releases for our favourite computer.

There's still work going on, for sure, but many companies have reported that their major development projects have been put on hold until the Amiga's future is a little more clearly spelled-out

Utilities Unlimited is nearing completion on its MS-DOS PC emulator module for Emplant. All work on other pro jects, such as the company's video board and 68060 accelerator, has been put on hold to concentrate resources on getting the long-delayed PC emulation out

One of the reasons it has taken longer than expected is that it's no longer a 486 emulation. The module now emu lates a Pentium processor instead. That doesn't mean it will be any faster, but if a program utilizes any of the enhanced instructions of Intel's newest processor, the Emplant PC emulation will be able to take advantage of

Another update in the works comes from Intangible Assets Manufacturing - Dave Haynie's DiskSalv 3.0. Previous versions of this amazing data-recovery program have been shareware, and utilized a command-line interface. This life-saving program has been updated to





Deluve Baiet V is a direct shral to brill

include a full graphical interface, as well as even better data-recovery abilities. Watch out for a hands-on look in next month's USA News

A couple of months ago we premiered the fact that a new version of the venerable Deluxe Paint - version V, to be exact - was in the works. It's nearing release, and promises to give Brilliance a run for its money.

Among the new features are ARexx macro capability (including the ability to record any painting or effect actions), support for 24-bit loading and saving, palette changes during animation frames, variable animation rates (you can speed or slow an animation during different sections), camera moves for scrolling backgrounds and zooms, textures, animation storyboarding, and a muchimproved Move requester. Look out for it any day now from your local Electronic Arts retailer.



Illith Commodorp's firture _ still undecided. Denny — Atkins reports on what _ progression there has _ been in the hampered -

Termite attack



Amiga market _

regon flessorch has released a new program this design the mean; a consideration of the program Guide online help. ou tend to regret the amount of time you've spent online when you

get your phone or credit-card bill at the end of the month, you'll appreciat mite's call-logging feature, which will let you know just how much time

function or any Aflexx macro to the bar, making common operations a mouse click away. Set up one icon to log you on, another to view a list of new files, and another to download. You can even create your own icon images with any paint program that supports IFF format.

wur any paint program that supports IFF format.
Termite is priced at \$49.58. Its available from Oregon Research, 16200
S.W. Placific Huye, Suite 162, Tigard, Oregon 97224, Tel: (630) 620-4919;
fax (630) 624-2940. You can also contact them via e-mail at orres@tele-port.com.

If you've been wanting to craft a masterpiece Amiga game but you feel as if you're reinventing the wheel by figuring out how to implement things like parallax scrolling and double-buffered animation. Oregon Research has a tool that will let you dive into game development without having to

worry about the nitty-gritty details. The GameSmith Development System is a series of routines for Amiga C compilers and assemblers (support for Pascal and HiSoft BASIC 2 is coming soon) that will let you create everything from fast-action scrolling shooters to graphic

The \$129.95 development package features routines that provide a complete animation system

Game craft

with double-buffering, prioritized object display, object and background collision detection and

response, and dynamic animation control. You can chain objects, so animating one will animate the entire chain. If you don't want a hacker reverse-engineering your game or scamming

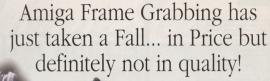
your valuable graphics and sounds, GameSmith features custom encryption to protect those files. Hardware-level smooth scrolling, independently icrolling dual playfields, parallax scrolling, and full AGA support round out the package. Of course, you'll find plenty of other basic game tools, such as joystick polling routines and an ILBM picture loader. GameSmith also features CITAS, an interactive character animator that lets you customise all aspects of your game objects, including sequence, placement, speed, display method and priority, and collision detection parameters.

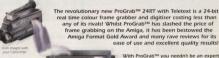
Over 350 pages of documentation explain the system and utilities in detail, and the over 130 library functions are explained in a detailed tutorial

that's packed with examples. Beginning and advanced programmers alike should find that GameSmith allows them to con-

centrate on gameplay instead of the technical details, saving them headaches and providing a better end product for the gaming customer.

all f





in Amiga Video technology either. Simple 3 stage operation ensures you get the right result - real time, after time!

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rom day one in the history of home computing, people talked enthusias tically about the educational possibilities. Certainly, those pushing the new technolony were forecasting nothing short of a revolution in teaching: it was as if buying a BBC micro would have kids running home to sup-

plement their education. Well we all know what really happened. Whatever Mum and Dad thought was being accomplished in the bedroom, 99 per cent of the time we were striving for level 10 of the latest arcade hit rather than any academic

To be fair, computers are useful in school where children are supervised. However, what parents - and to a certain extent teachers hoped and prayed for was a tutor that would keep children absorbed in the learning process without a beady-eved adult watching

That's why it's so important that these packages provide pleasure as well as exercises so that there is an incentive to pass the milestones of learning set up by a program.

There are plenty of Amiga teaching tools out there that are admirable in many respects. The software available today has certainly come on, with many packages offering a stepby-step series of valuable lessons. The problem is getting kids to come back

to their exercises time and again of their own free will. There's still a long way to go as far as making learning fun is concerned, and computers are not being used to their full potential on this count. Though good quality educational software

has been well researched from the teacher's point of view, they rarely show an understanding of what appeals to children. The graphics and sound, for example, are just not accentable in comparison to the sort of games that children really want to play Educational software houses could learn a

lot from the efforts made by game programmers. The likes of Sonic the Hedgehog were successful because they combined cartoon characteristics with appealing animation and quirky sound effects, not to mention entertain-

ing game-play

Admittedly, there are problems in combining, say, a maths exercise with the popular style of arcade action. On the other hand there's no reason why catchy tunes, sampled sound effects and more lively characters can't

Lessans ta learn

Every teacher will tell you that if you make a subject enjouable it's easier to learn Gareth Lofthouse asks why it's so hard to find saftware that makes homework fun

be incorporated. Given that the young are more demanding about quality in these respects than many adults, the educators should stop acting as if second best will do. Disney films are so phenomally successful because old Walt knew children's standards are at least as high as anyone

SUPERKID

With the growth of the vaquely named medium. 'Multimedia', we are now on the threshold of a new technology that again promises a lot in the field of education. Once again we're dreaming about bright-eved superchildren absorbing tomes of information while Ma and Pa are left in peace

Unfortunately, while multimedia has great potential, too many of the current offerings offer only token advantages over encyclopaedias. It is to be hoped that these are the inevitable shortcomings of a communica-

tion medium that is still in its infancy It would be wrong to be overcritical

because I don't envy the teacher's job Making exercises fun for the young has always been a very difficult challenge, and there's probably nothing on earth that can make sums and grammar as much fun as zapping aliens.

Even so, it cannot be doubted that if developers put as much effort into the entertainment side of things as they do into the actual lessons, their software would hold a child's interest for longer.

While we're waiting for these improvements, the better quality products in this field are still going to be more fun than standard homework assignments. My advice is to choose carefully and don't necessarily trust the packaging as far as its claims for age suitability are concerned.

As for the future, let's hope the developers take advantage of the technology's capabilities. Small independent game makers have shown that you don't need the resources of Sega to make software exciting: it's time for the educators to do the same thing.

TECHNICAL EDITOR Stree White ART FOITORS NEWS EDITOR

Lufith Chapman Garath Lofthouse lane Norminetos Sue Horsefield

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CHAIRMAN Derek Meakin MANAGING DIRECTOR las Bloomfeld

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The power

Installation

In order to use Easy AMOS you will need three blank disks. Take the disk marked Easy AMOS Master Disk 1 and write-enable it by pushing the disk tab down so that it covers the hole.

then reboot your Amiga. After a short while t Welcome Screen will appear. Press the mouse butt and a new screen will appear with these words:

Easy AMIS Work Disc Creator

Before proceeding, you need to select the nationals of your Amiga's keyboard.

Look at the selection of nationality panels on the screen page and use the mouse to click on the on

After you have entered the nationality you are required to enter your name in the two books. Type your first name in the first box and your su name in the second. This data will be saved to yo

You will now be asked to write protect your Mast disks, so make sure that the plastic tab on the disk pushed up so that you can see clearly through the

When you are satisfied that the disks are write protected, click on the OK panel. Your own unique registration number will appear on the screen. Ignore this by simply clicking on OK again which will take you to a screen with three control panels entitled:

> (Install on floppy) (Install on hard drive)

You now have the choice of installing Easy AMO onto floppy disks, which you should have in your possession, or onto a hard drive if you have one. If you are installing onto floppy drive, move the pointer over Installing onto floppy and click. When you'verad the following introduction click on OK to proceed at the Let IM install your Software normal resert.





blank disk and click the left mouse button. The dis will be formatted and given the name Easy_AMOS From now on simply follow the instructions as the

If you feel that something is not right in the installation process simply press Esc to abort, after which you will be allowed to try again. Once you have finished installing the first disk you will be required to install the AMOS Examples disk.

owing the AMOS messages as they appear. V sen that disk is completed all that is left for you to dis s install the AMOS Tutorials on the third and fina lisk.

hat you can save your own programs to it. It is no dvised that you save over your AMOS disks. To do this, click on Format and enter a suitable ame before pressing Return. Click on the left mouse unton to actually format it. o create a program with Easy
AMOS you are given a working
area called the Edit Screen. Press
a mouse button or any key on your keyboard to reveal it now or simply do nothing.

It will appear automatically.

Instead of explaining what everything does, just identify the bits that you need for making contact with Easy AMOS immediately. At the top of the screen is an assortment of control panels that are triggered

using the mouse.

Below that is an Information Line where Easy AMOS keeps you up to date with exactly what's going on in your programming efforts. The main part of the Edit Screen is the working area. This is the Edit Window where you actually write your programs, and there is a little flashing bar waiting to a date.

Press the 'A' key on your keyboard and a little 'a' will appear in the Edit Window. Now hold down one of the Shift keys and press 'A' again. There should be a capital 'A' alonoside the little 'a' on screen.

Likewise, all the other keys on your keyboard respond to Easy AMOS as a typewriter would.

writer would.

So, if you're ready to begin, copy the following lines of program exactly as they appear into the Edit Window. Don't worry if you make a mistake because Easy AMOS



The Save and Load requesters in Easy AMOS are very similar to Workbench requesters To keen you at the forefront of Amiga nrngramming. Amiga Computing proudly presents the romplete and exclusive uprsion of Fasu AMOS just for you

to create

is ready and able to help. Start typing now. Good luck

```
Track Load "Easy_Examples:Songs/mod.laugh",6
Innat 'Tell me your name..... ": MARGE
Say ITS+MARIS+"."
ITS="Let's have some fun with Easy AMOS."
```

```
5×50 : E×220 : 51×1 : AN×2
          $=220 : E=50 : $1=-1 : AN=5
Loop
MOUT-
```

for #45 to E Step \$1

Once you get this program running you can stop it operating by pressing the Control and C keys. If you think every character in that program is now faithfully reproduced in the Edit Window, move the mouse pointer up to the centre of the top line of little panels and click on the one that reads Test with the left mouse button Easy AMOS reads through your work

instantly and can spot any mistakes. If all is well, the magic words No errors have just appeared in the information line, although the chances are you have put in the wrong character somewhere, or left something out.

This is where Easy AMOS starts getting friendly, by displaying a little help message in the information line as well as moving the flashing Edit cursor to the nearest point in your lines of program where it knows the mistake is lurking.

So you can put any mistakes right until your Test selection delivers the No errors message. You should then insert your Easy AMOS Examples disk into the internal drive.

Now get ready to see and hear the results of your first effort. Move the mouse pointer to the box that says Run and click the left mouse button. When your Amiga asks you for your name, type it in and press the Return key.

You've already realised that writing programs with Easy AMOS is not only simple. it's fun. If some of those lines in your program seemed to make sense as you were typing them in, you are well on the way to being a programmer

Easy AMOS is a very sensible and direct language that allows your Amiga to understand anything and everything you want to make it do

If you copied the example above you will already have written your first program. This next one should be easy in comparison. Type in the following line exactly as it is

INSTALLING EASY AMOS

It couldn't be simpler. Just put disk 1 into your drive and It course to esimpler, just but disk 1 mild your drive and reset your machine. The installation program will then load. After the initial animation of the strange little chap with the unlikely moustache, and if you are not interested in the message scroller, click anyputton to continue. You will then be presented with a choice of nationalities for on the English box.Next, you will be requested to enter disk.Clicking on OK once you have entered your name will take you to a displayshowing your unique registration number. It may be a good idea to write this tion number. It may be a good notes to write this down.Finally, you should now be at the main installation menu. Here you have a choice of either installing Easy Amos to floppy disks or to a hard disk.Just click on the appropriate button and the installation program will takeover.Keep an eye on the bottom text line which should tell you when to swapdisks. Have fun.

> printed and leave it at the top-left corner of the Edit Window. Don't press Return vet.

Easy AMOS programs use all sorts of instructions to tell the Amiga what to do. Many of these instructions take the form of special keywords and Easy AMOS recognises them instantly

Now press the Return key and look at the line you typed in. Easy AMOS has already examined it and spotted a keyword. The keyword has automatically been given a capital letter and separated from what follows it by a space, so your line now looks like this:

Print "Hello"

Wherever possible, Easy AMOS will look at what you type in and try to make sense of it, even if it's not typed in perfectly. But if you use the wrong keyword or make an error in the spelling, you will be informed that there

Hard drive users



is a mistake. Now add another two lines to your program and press the Return key after each line so that it looks like this:

There are two keywords used here, and they have the same sort of meaning as in normal English.

- Print This is an instruction that tells the computer to print some information on the screen. In this case the information is a list of characters that make up words. You have out the words inside speech marks to tell the computer what to print on screen
- · Wait This keyword is a command that tells the computer to stop the program and wait for as long as you want before moving onto the next instruction. The number that follows it is the number of 50ths of a second to wait. So, in your example the program will wait for one second.

Now move your mouse pointer up to the Run option at the top of the screen and click on the left mouse button to see the results of your work. As soon as you Run your program the blue Edit Screen disappears and a new screen takes its place ready to display the current program.

In the case of your example, the word Hello should appear on screen in the top-left corner and after a one second wait "I am your program" appears below it. When the

program has been completed. Easy AMOS gives you a report which is automatically displayed outside the working area, at the bottom of the screen.

There should be a flashing message telling you at which line your program ended, and below that you are told how to get back to the editing process. If all is well, the following report is now sitting centrally at the bottom of your screen:

End of orooran at time 3 [SSCAPE] to direct mode. [Sauce] to editor

Editing

To adapt or change your work, return to the Edit Screen by pressing the Spacebar. Change the characters to be printed and the value that controls the waiting time and then Run your edited program. You can alter your program to something like this:

Print "Hello again!" Print "I am your edited program."

That little program will now stay in your computer's memory all the time you leave it switched on, but as soon as the power is turned off the machine will forget all about it and your work will disappear down the electronic wastenine. The best way to avoid such catastrophes is to save your work

regularly. Take the blank disk that you were asked to format earlier and get ready to use it. Reboot Easy AMOS, go to the Edit Screen and type in and Run this program:

Print "I am test number one"

After checking that your example works. return to the Edit Screen, remove your Easy AMOS Programs disk and insert the new disk that you've actually prepared for storing your programs.

Sauing a program

Saving an Easy AMOS program is very simple. Press the Amiga key and the S key together and a file requester automatically pops up on the screen. The little flashing cursor at the bottom of the file requester panel is waiting for you to give a name to the program you want to save

Type in the name below and then press

That's it! Your test program has been saved onto the disk and you will have been returned back to the Edit Screen

Keyboard short-ruts

Make sure that the edit cursor is in your line of program and press Shift and Del together. Your program has just been wined off the screen. This is a good illustration of how Easy AMOS uses certain keys acting together to produce short-cuts in your editing.

For example, pressing Del on its own will delete the character at the current location of the edit cursor. But if you press Shift and Del together the whole line in which the cursor is sitting will be erased. We will be providing you with a full list of keyboard short-cuts at a later date At the moment, there should be nothing in

your Edit Window except the edit cursor. Let's prove that your program has gone by trying to Run it. Nothing? Good. Now press the Spacehar to return to the Edit Screen and look at the information line below the panel of options. At the right-hand side the following report is given:

Edit: Test1.AMOS

This means that Easy AMOS is still expecting you to edit the program you have just saved, named Test1, AMOS. But let's forget about this program for a while and write another one.

Deleting programs

Hold down the Shift key and look for a new option that has appeared called New. This option vaporises your current program from the computer's memory altogether. Trigger it by moving the mouse pointer to New and

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press the left mouse button. A message appears in the Information Line which

Please confirm (Yes or Sp.)

Press Y. The Information Line will ask you if you want to save your program. Press N and it should now report that your last program has gone and that your next program has yet to be given a name.

Print "and I am test number two"

Type in the following:

This time don't run your new program by selecting the Run option with your mouse but press the F1 key instead. This function key has been pre-programmed to run the current program and you have just been introduced to another range of Easy AMOS short-cuts which use the function keys at the top of your keyboard to perform special tasks. We'll take a look at what all these keys can do later on

If you are satisfied that your Test Number Two program is all in order, get ready to save it, but do not press Amiga and S. Instead, hold down the Shift key and look at the top of the Edit Screen.

A Save option has appeared where the Test option normally sits. Use your left mouse button to click on the Save option and the file selector pops up again. Now name this program:

Test2.1805

and press Return

The is your final introduction to the way Easy AMOS allows you to carry out your wishes. Wherever possible, you can choose between using the mouse to trigger options from the screen menus, or type in instructions via the keyboard. You can also use

the right mouse button to act as a Shift key It can be easier and faster to operate in this way. Get rid of your current program with New followed by Y to confirm your action

The Edit window

You have already used the main Edit win dow for short home-grown programs that only use a few lines, but most program listings will take up several screens or pages. If you remember how you scrolled through the File Selector window you will recognise exactly the same facility here. The right-hand side of the Edit window features a vertical scroll bar with a pair of

Up/Down options, and at the bottom of the screen is a horizontal scroll bar with Left/Right icons in the corner. Use your mouse to scroll through program listings. **Direct Mode**

Easy AMOS is designed to allow you to test out ideas without interfering with your program listings in the main Edit window. While editing you can press Esc at any time and jump to Direct Mode. This provides you with a special screen that appears at the bottom of your display and you can move it vertical-





complete directory man completely in Easy AMOS

Edit Screen - a quided tour

- Default Menu At the top of the screen, the Menu window displays all the commands that are currently available. This is your entry to the Easy AMOS editing features and it's the menu that always appears when you first enter the Edit Screen. We call it the Default Menu. You have already used some of the items on offer
- . Blocks Menu Hold down the Ctrl key and you will see that the Default Menu has been replaced by a new set of options. This is the Blocks Menu and it provides everything you need for manipulating blocks of computer program.
- System Menu This is called up from the Default Menu by holding down one of the Shift keys, and it contains a selection of important commands for handling complete programs . Search Menu - When you hold down the Alt key the
- Search Menu is called up. Its various options are used to handle text • Information Line - This line, below the Menu options
- panel, is where Easy AMOS gives a running report on the editing process. The report on the left-hand side of the Information Line is a single letter that tells you what editing mode you are using. Below is a list of all editing modes and their corresponding letter
- . I Means that new characters will be Inserted wherever the edit cursor is on the screen. That's the normal state of affairs. An O can also appear here.
- O Means that new characters will Overwrite characters that are already displayed in the Edit window.
- L Tells you which Line you are currently editing. C - Shows the number of the Column the edit cursor is in.
- Text: Chip: Fast: These report how much memory is available for various tasks. · Edit - Displays the name of the program that you are editing

ly with the arrow keys on your keyboard. Press Esc now, and move the blue panel up and down, then position it in the lower half of your screen. Now give Easy AMOS a direct

Print "I am in Direct Made!"

Try another one. For example

Wait 250 : Print "A five second wait."

When you enter Direct Mode a list of special pre-set functions is displayed in the blue panel. These functions can be called up by various key-presses to perform special tasks

At the bottom of the blue panel there is a prompt where your typed commands will be displayed one after the other. Every time you press the Return key to test out one line of direct commands a new prompt will appear and the list of functions moves up one line in the panel's display.

Next month





SPECIFICATION







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The Easy AMOS manual is vital to get past the basics of the pro n and really progress with your free software. This detailed

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t were nowt like that when I were a young-un, I thought in a supposedly Yorkshire scoent. "By 'eck, when we did spelling the teacher would beat the living daylights out of us to make sure we remembered. And that was if we were lucky!"

Well, nowadays, people are trying to use computers to make learning a fun experience, and the Amiga is better cattered for than most. Rated by Amiga Computing as one of the best software developers for education, 10 ut of 10 now brings us Structured Soelling.

The package follows the same formula that can be found in the rest of the 10/10 range. There are six games to choose from, giving

the learning process variety.

From the teacher's point of view there's a lot to recommend it. Structured Spelling is designed to cover the basic rules, helping

designed to cover the basic rules, helping children to discover, for example, that most words that thyme are spelt in a similar way. There are six grades to cover in the game, with the first three being suitable for the

majority of infants and the last three being aimed mainly for juniors.

As there are lots of options for altering the difficulty of the games in terms of both word

difficulty of the games the rems of both word difficulty and coordination challenge, it should also be possible to cater for the needs of many children with special learning difficulties.

SUCCESSES

The achievement record is particularly good because it acts both as a progress record for the parentheacher and as an incentive for the child. Depending on their level of success, a student is rewarded with a varying number of stars for each exercise.

To axin three stars they must get 100 per-

cent. To encourage them to reinforce the lesson, they can then go on to get a gold medal by completing the exercise properly twice

Achievement records can be kept for up to 64 children, while there is a four-player option for each game allowing group involvement; hence the program can justifiably claim to be a powerful classroom aid as well as a home

Also to be admired are the separate instruction guides that 10/10 has supplied. One is for the game players, kept clear and simple so that a child should be able to get started with little or no supervision.

The teacher/parent guide on the other

hand gives advice on how to use the product to suit the individual's needs. Most importantly, there is information on customising the program in a variety of ways so that, for



Not quite Lotus racing, but one of the

Work and

10 out of 10 adds another title to its well received educational range. Gareth Lofthouse goes bauk to school to set a test



Diver still doesn't compete too well with the Sonic the Hedgehogs of the software world

example, older children can start off on a higher grade.

As far as the actual games are concerned, they will probably provide adequate entertainment for younger children while being of less

interest to the older juniors.

Typically for the genre, the graphics are colourful but very basic. Simplicity is to be respected but poor quality is not excusable – children are probably more fussy on this point than anyone else.

The activities are based on different themes such as diving, football or painting. A problem is that the game context often fails to disguise the fact that the child is actually performing an exercise.

The object in Diver, for example, is to click on the correct letters as they roll down the screen on conveyer belts. In the middle is a motionless picture of an aquatic bear with a

10/10's system remains an admirable teaching tool that is flexible enough to be tailored to a wide range of needs. At the same time, the interface is simple enough so that most children can be left to learn on their own.

Though it is a good program for use at home, the way the

achievement record has been implemented makes it a worthy and economical choice for the classroom as well.

My criticisms of the games may seem incongruous, with the over-

My criticams of the games may seem incongruous, with the overall mark given to the product. However, though educational software has a long way to go, 10/10 deserves credit for attempting to combine appealing gameplay with the process of learning.



Two yellow stars means I'm doing quite well, but I'm aiming to turn the squares green by getting full marks

snorkel. Well, maybe 10/10 are trying to increase the child's imaginative powers as well as their spelling skills, but the diving connection seems a bit spurious to me.

Despite these faults, there can be little doubt that students will find their spelling homework infinitely more interesting with this software than with the traditional learn-by-rote list.



The battom line
Product: Structured Spelling
Price: £25.95
Software House: 10 out of 10.
Tel: 0742 780370

Ease of use Implementation Value for money

Overall



Uerdict

7

8



EMPLANT

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ATTURN THE

The

Remember, an Amiga's not just for Christmas, it's for life. Gareth Lofthouse suggests 20 ways to show you rare

parade



Mini Office
Price: £38.99
Supplier: First Computer Centre
Tel: 0532 319444

Lots of home-users would find a wordprocessor, a spreadsheet and a database utility useful, but at the same time they may feel that their needs aren't serious enough to justify spending lots of cash on separate packages.

Surprisingly, it's possible to get packages combining all these utilities and more at less than half the price of, say, well known Amiga word processors. One of the best of these all-in packages is Europress's Mini Office.

The package includes a spreadsheet allowing you to prepare tables, alter column width, cut and paste data, lock blocks and choose from over 50 functions. There's also a database with which a card

index can be created with up to 50 fields.

A graphics utility allows you to enhance documents with various types of chart,



Octamed v5.0

Price: £19.95
Supplier: Seasoft
Tel: 0903 850378



A good introduction to the fascinating world of Amiga music, this versatile composer and editor is both extremely capable but also very simple in use. Featuring full midi support, real time

editing with synthetic sounds and sample editor, this package puts music creation into the hands of the beginner and amateur.

To guide the user through this host of features there's a ring-bound manual broken down into step-by-step tutorials, and although version 5 is printed in otherwisk it is easy to follow. For many, the cheaper version 5.0 will be fine as it is exactly the same the latest version except that it won't support Microdeal's 16-bit sampler. If you want this facility you can get the latest version for \$42.

incorporating colours and 3D views and it's also possible to import IFF pictures to make backgrounds.

Word processing functions are also well catered for as far as the average home user is concerned. It's possible to mailmerge details from a database file, add graphics and perform the basic functions you'd expect from such a package.

The addition of a Disk Utility should help you keep all your files from the various packages in good order, with options for creating directories, copying files and so on.

What makes it an ideal item for beginners and the not-too-serious user is the fact that each utility uses the same basic interface. This means that once the user has used one of the modules, they'll have a good idea of how to operate all the others.

Considering how cheap this package is, people should consider it carefully before buying expensive separates. True, it doesn't have some of the advanced features that more expensive software boasts, but in practice lots of people just don't need the frills.

hat do you get for the man who has everything? Well the likes of X-Pro Backup might not strike you as the most romantic of gifts, but you know what these Amiga enthusiasts are like. Trading them in is probably your best bet, but if you do want to stay in their

affections then read on.

Because we know Christmas is an expensive enough affair as it is, everything in the top twenty can be bought for under 50 quid. Thankfully, we found the Amiga is blessed when it comes to quality hardware and soft-ware at bargain prices.



The stars of software

Price: £29.95 Supplier: Gasteiner Tel: 081-345 6000

If you're running out of space on your hard of when, there are two main options open to you. Buying a second Ho would be nice but it's to way the special buying a second Ho would be not being trained buying a most buying a second how the special buying a second his special buying a second how the special buying a sec

Expander.

This rather useful little package can double the capacity of your hard disk or floppy disks and has been designed to do so at a high compression speed without messing your data up in the process.

With its graphical user interface it can be installed within a tew seconds with full control over the functions supplied. Since most Amiga users face problems with memory space sooner or later, this package is well worth the asking price. If more powerful financial analysis than Mini Office can offer is needed, the Amiga accountant need look no further than this

ful finanthan Mini offer is a Amiga eed look bon this

classic spreadsheet program, now available at a very reasonable price. In fact, Maxiplan also includes a database program capable of undertaking simultaneous ascending and descending sorts on any number of

The spreadsheet utility itself has 512 columns by 32,760 rows, more than enough for the average user. It features the ability to import and export Lotus 1-2-3 data, password protection for confidential data and over 70 functions.

Decuments can be



enhanced using a choice of 12 chart styles. Up to 16 colours can be used and there is the option to include text using any standard Amiga forts. With Macro features such as automatic record

with Macro teatures such as automatic record mode and 95 in-built macro commands, this is a remarkably powerful system. You won't find a more powerful utility of this type at this price.



Aminet Feb 94 Edition
Price: £19.99 + 75p&p
Supplier: 17th Bit Software
Tel: 0924 366982

As we discovered in our CD-ROM Roundup in the last issue, CD utility software is often hard to beat when it comes to good value, and one of the best all-rounders available has just got to be the Aminet collection.

A top seller, this archive from the Internet contains over 3200 programs covering a vast range of Armga applications – I'll take longer than the Christmas holiday to glance over half the stuff on offer. Choose from domos, utilities, technical documents, 3D objects, games and more – in fact there's so much it can be mind-boggling.

Hot hardware

Multimedia Speakers
Price £29.95

Price £29.95 Supplier: Golden Image Tel: 081-365 1102

Your monitor's speakers are OK for most jobs, but occasionally you must have wished for a better source of sound for your Amiga. Our Technoscund Coverdisk is just one piece of software that could benefit from quality steren sound.

GoldenIMAGE's speakers make a good impression as soon as you open the box, with a simple styling that shows up the tackiness of some of its rivals. There are only a few basic controls but then this is how it should

More importantly, the quality of sound they produce is much better than you might expect for the price. The sound from most cheep speakers becomes distorted at high volumes, but there was no such problem in this case even at high volumes. Of course, there's only so much you can

expect at this price. Speakers of this size, for example, are almost always going to be rather weak with the bass. It should be that connecting them to the

It should be that connecting them to the Amiga is done via a stereo mini-jack which means you'll probably have to buy an additional cable to get them working. Still, they're worth a little extra expense. A poorly made mouse can defeat its own object – that being to make moving round your electronic destop a quick and instinctive affair. Unfortunately, some designs are troublesome enough to leave you dreaming of pre-mouse times as if they were the good old days.



400 dpi Mouse

Price: £14.95 Supplier: Gasteiner Tel: 081-345 6000

This Gasteiner mouse has a good dots per inch speed, which in practice pays off with pin-point accuracy and soothing control. Ergonomically, it's hard to beat and the micro-switches are consistently responsive and reliable.

Not too long ago this sort of mouse would have cost a fair bit of cash, but fortunately Gasteiner's rodent has a price to suit its size.

A1200 Beginner Pack
Price: £39.95
Supplier: Bruce Smith Books
Tet: 0923 894355
Tot: 0923 894355
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This one's a life-saver for the A1200 beginner who, facing the dirgeful grey of the workbench screen, feels inclined to abandon computing before they've even started.

Supplier Bruce Smith Books
Tet: 0623 894355

Beamed the respect of reviewers thanks to the clarity and helpfulness of their advice. The

A1200 Insider Guide and its sequel, Next Steps, are both included in the pack which also contains an instructional video. This 60 minute visual guide may at times seem amediatishly produced, but it is undoubtably useful nevertheless.

The first book gives practical advice about the Workbench,

The first book gives practical advice about the Workbench, ArrigaDOS, the shell, utilities, cost and printers. Informative screenshots are interspersed with the text, giving the reader a visual guide as to what should be happening. The second book leads the beginner into more advanced computing territory with, for example, tutoriats on using the property of the property of

more advanced configuring tentrory with, for countries, usu-allo of using the supplied Multiver program to where your own adverture grams. On top of the educational material they've also thrown a selection of software into the brapian. Fuz 800k dasks include a verictprocessor, data base, recording studio, virus checker—in fact, all the things a beginner ought to get their Armap equipped with

Vistalite 3

Prine: £19.99 ± 750&n Sunnier 17th Bit Software Tel: 0924 366982

Dreaming of a white Christmas? Well forget it. because you know all too well that as we're should ling our turkey dinners into our stodge-laden stomachs, outside there will be the usual muggy drizzle we get all the rest of the year

Excuse the particularly bitter moan about the British weather, but it's actually in preparation for some good news. Even if our climate does let us down again, it doesn't matter because Amiga users

> Turbotext Prior: £39 Supplier: Digital Direct Tel: 0525 718271

For those brave enough to attempt such daunting feats as creating AmigaDOS scripts, here's a package that should help to increase their productivity

Allowing for wide-ranging customisation. TurboText lets the user emulate any other text editor or create their own environment. Flexibility is aided by the complete window support providing multiple views of one

can now spend Xmas on Mars.

Or at least they can pretend with VistaLite, the landscape designer A scaled-down version of VistaPro 3.0, this product is designed to work with 2Mb of Ram and can create topographical views using either real world data or fractals for fantasy

A user friendly point and click interface, a wire frame preview option, the ability to after camera positioning and a choice of natural phenomena to add to the picture makes VistaLite a highly desirable piece of software

It should be noted that the makers strongly recommend using VistaLite on an accelerated Amiga. Even with faster machines a complicated ten million

or more documents, and the number of windows

that are open is limited only by computer memory. Cut, copy and paste functions can be used on vertical blocks and there are advanced features like Correct Case and Correct Word. There's also an extensive ARexx macro interface including recorded

Other facilities include a powerful hexadecimal editing window, complete outlining capabilities, and full text template support. What's more, despite a very reasonable price there's a large good quality manual, so this one is a good bet for the more technically minded Amiga user

polygon image will take three hours to render, but without one you could be waiting days

That said if you have got an accelerated machine it's well worth

the wait. For a very reasonable price, beautiful images can be rendered and used either for nure enter

tainment or by artists, geography teachers and surveyors



Migraph OCR software Price: £49.95 Supplier: Goldenlmage Tel: 081-900 9291

Optical Character Recognition software is designed to teach your computer to read - no mean feat for under £50. Using a scanner. hard-copy text is scanned into your Amiga. and OCR will interpret it and transform it into ASCII text that can be used in wordprocess. Admittedly, this product can't be used with-

out a scanner, with higher quality ones giving better results, but considering this software used to cost hundreds of pounds it clearly represents good value if you do have the required equipment.

MiGraph's product is particularly useful because it can process text with pictures and layouts with columns. Using the supplied selection of drawing tools, sections, legs and box outs can be isolated to be processed and compiled in the correct sequence.

Other OCR software used to require huge databases to identify letters, a method which had obvious disadvantages as far as memory space was concerned. Fortunately, MiGraph has used Omnifont mathematical definitions which dispense with the need for a database while making improvements in accuracy and

The interactive learning facility allows you to train the software to spot any irregular words and append them to its dictionary. If ROM are best for becomes clear: f



you can't be bothered editing the text manually, it's also possible to let the software automatically scan the data and correct any

Of course it doesn't always work perfectly. Failure to spot capitals or mistakes with punctuation are common errors, but if you use particular fonts regularly even these problems can be resolved.

An impressive piece of work, MiGraph OCR is very useful for anyone with a lot of text to convert and is lacking when it comes to fast typing speed. Before anyone rushes out to buy, however,

they should realise that it's a good idea to have at least 3-4Mb of RAM. Though the software doesn't require much memory itself, unless you can process a large area of text at once the object of using OCR is defeated.

X-Backup Pro Price: £39.99 Supplier: Siren Tel: 0500 340548

Few things can be worse than losing information on a disk when you've not backed it up. If your hard drive breaks down, for example, without a backup. months and months of hard work

can disappear down the toilet.

Siren's product is an economical and speedy way of protecting yourself against such a disaster. The Autoswitch Cyclone Cartridge (boy, does

that sound exciting) plugs into the disk drive port and does the job both for floopy and hard drive backup As a bonus, the software supplied as part of the package includes a file management program, a text editor and a utility allowing you to copy protected pro-



Turbotech clock Price: £19.99 Supplier: Siren Tel: 0500 340548



Hot hardware

Megalosound Pring: £25 Supplier: Digital Direct Tel: 0525 718271

An 8-bit steren sampler Megalosound is an affordable package allowing the user to copy sound effects and music directly onto disk. Combining the required hardware and software everything is there to get you started on ripping bits and pieces of other people's

Megalosound allows for sampling at a rate of up to 70KHz mono and 39KHz on an A500 and 56KHz on an A1200, which makes for pretty good sound quality for your money. There are a number of special effects available to give your samples more individuality. such as variable low-pass and high-pass filters, echo, reverb, flange, phaser and distortion. These can all be applied in real

Extras include comprehensive print facilities allowing for waveform print-outs, a real time frequency analyser and copy/cut/paste options. A nice touch is that Megalasound is fully configurable and all preferences can be saved. With a 144 page manual includ-

ing tutorials for the beginner Megalasound should be a bundle of fun for arryone slightly interested in the audio side of the Amiga.



Computer Toolkit Price: SRP £17.99

Despite the fact that we at Amiga Computing are

constantly having to open our Amigas up and con-

nect various bits of hardware, we've only had one

being eagerly eyed by the technical guys. With

thirteen tools designed for a wide range of jobs, all

contained within a smart vinyl pouch, this product

As well as the various screwdrivers (including

Allen nutdrivers), there are some items that left

me mystified but which, those in the know assured

me are very useful. The chip extractor is unusual

because it features spring-loaded securers. The

normal extractors sometimes allow chips to skip out of your grip, a problem which this new design

will be invaluable for all sorts of computer DIY.

screwdriver to go between us As soon as the toolkit arrived, therefore, it was

Cools of the trade

Wrist Rest Price: SRP £2.4 Contact below

Holding your hands in the right position when working on a keyboard is more than a matter of typing school dogma. Tapping away on your computer hardly sounds like dangerous work, but evidence suggests that it can be a health risk.

Repetetive Strain Injury (RSI) has been in the news a lot over the past few years, and typing is one of the most common causes of the condition. However, using a wrist support will help to prevent any such problem The Omega wrist pad does the job perfe-

ctly well, keeping your hands at the same level as the keyboard and thus reducing the strain on the tendons in your wrist.



Monitor Arm



A dusty environment can cause havoc with computers and disks, so it may be worth your while investing in a cleaning kit to keep them looking shiny and new

If you just want to keep your floppy drive in good order, your best bet is a cleaning disk. These are cheap and

If, however, dust and grime is a more serious problem, then Omega's cleaning kit would come in very handy. The

The best thing, however, is the mini vacuum cleaner gizmo supplied with the package. It's actually just a battery operated blower, but it comes with lots of different attachments just like a real hoover. It's ideal for cleaning your

widely available from any computer shop.

package includes a cleaning disk, head cleaning fluid, five swahs, a computer cleaning solution and a lint free cloth.

If your table is even half as cluttered as mine, it might be worth inve-ing in a monitor arm. With such an item you can free some valuat desk space – and fill If up again with yet



*Details of your nearest local dealer for Omega products are available from ABS on 0925 234300 Retailers actual prices are often considerably lower than the S.R.P.

should help to overcome. There's also a chip inserter, and both of these parts can be used on DIP chins of eight to 28 pins. The three-prong part retriever may look like an

elaborate nose picker, but its V-slotted edge gives its steel wires a greater grasping capability than conventional versions of this tool All the tools are demagnetized, antistatic and

are made of durable materials. As far as gifts for the handy-man are concerned, they'll make a nice change from Black and Decker

Stocking fillers and novelties



Mouse Mats
Price: £6.99
Supplier: Data Business
Tat: 0865 842224

Convince colleagues you're not the boring old git they think you are by buying one of 24 wacky designs from Data Business' mat collection. Designed to put the FUN back into FUNctional, at least they'll add a touch of colour to your

There's something for everyone, with cartoon animals and classic cars, saucy close-ups (both sexes) and sporty snapshots. Strangely, there's even a mat for Oscar Wilde fans – perhaps

even a mat for Oscar Wilde fans — perhaps aimed at those trying to pull office hunks and babes via the sensitive soul approach. They're all well made and include such features as wipe-clean surfaces, which will help

keep your mouse unclogged, and "matrex 90" backs – ie, grippy bottoms.
They also prove that mats don't have obe square, with lots of novelty shapes to choose
from. And when you put your order in, makes user you get more than one because apparently
they're suitable for lots of other uses like...well, you know, just hundreds of things I can't
think of eight may.

With the likes of After Dark and Bliss, PC and Mac owners have had qualify commercial screensavers while Amiga users have had to resort to hit and miss PD options. But thanks to this offering from HiSoft, now you can be the proud owner of the ultimate typpie accessory for the computer.

Maxon Magic

Price: £22 Supplier: Digital Direct Tel: 0525 718271

yuppie accessory for the computer.

Screensavers are little animations designed to protect your monitor from burn-in while providing a bit of amusement at the same time. Maxon provides a choice of 18 including eyeballs blinking in the dark, firework displays and fiving food.

Sound samples can also be added to the animations which, apart from being a bit of fun, can be used as audible reminders. You could leave your computer to deal with timeconsuming tasks until it calls "Tve finisher" for example.

Consuming tasks until it cause if we finished for example.

Mainly, though, it's a light-hearted product that improves on its PD counterparts, a piece of silliness that's ideal for a Christmas present.



Could have been a contender

Below are some products that are of good quality at a reasonable price, but didn't quite manage crawl under the £50 barrier. So what's a few extra quid among friends?

Disk Opus 4
Price: £51.50
Supplier: First Computing
Tel: 0532 319444

Available from large distributors at just over £50, some would say this is worth twice the price. An invaluable tool for organising and utilising files on your Amiga, it is one of the most acclaimed pieces of software around.

Tabby
Price: £59.95
Supplier: First Computing
Tel: 0532 319444

For those of you that are artistically inclined, a tabby allows for much more natural control than can be attained using a mouse, and they don't come better than this.

Video Back-up Price £60 Supplier: Power Computing Tel: 0234 273000

An alternative method of backing up your hard drive, video is a reliable storage medium equivalent to 200 floopies.

TurboCalc
Price: £59
Supplier: Power Computing

An outstanding spreadsheet utility that stops the myth of the Amiga being just a games machine. Not only does it offer exceptional number-juggling power, but it also has facilities for presentation that are unparalleled by its rivals.

aire fabilita Eral Saniands — Washin 55 ft



CPU Type: FPU Type: HMU Type

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At SoftWood we have o

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GRAPHICS

ith the arrival of the Personal Animation Recorder – alias the PAR card – the Amiga finally bridged the void between the digital world and the formally analog-only environ-

ment of video.

Now, thanks to the power of DV systems,

single frame recording of animation and broadcast quality special effects is now within the reach of us all. However, even with PAR the process of recording and playing back 24-bit video and 16-bit CD quality audio is still an expensive business, costing around 53500 for the complete AV system. With the arrival of VLab Motion the price

With the arrival of VLab Motion the price performance barrier has been shattered. Courtesy of this amazing release from Macro Systems, you can have a PAR equivalent for roughly a third of the price – with little if any sacrifice of image quality.

Asido from the obvious appeal of price.
VLab Molor also offers yet appealing acts, not least, not l

If you then decide to go the whole hog and add audio to the PAR via the AD516 8 track digital record, yet another Zorro is taken,

(lassy chroma keying

As if the price and performance were enough, MacroSystems has also adde an excellent chroma keying option which, as you can see from the example offers some wonderful opportunities.

a special effects tool.

Basically, you either record or impo
the background footage you requir
pop your subject in front of a blu
screen, set up the colouring keying
produce the desired effect and there yo
have it – a near instant weather me
effect.











Instant Chroma keying with the aid of the VLab Motions built-in colour correction and live signal processing. All as atandard of course...



leaving only one Zorro on most machines.
It's true that adding 16-bit sound to VLab
Motion via the Toccata direct-to-disk recorder
also scoffs a Zorro. But even so, using only
two slots for 24-bit video capture, playback
and CD qualify audio is still a remarkable
achievement.

FOOTAGE

OK, you now know what it does, but how does it do it? Again this is another area rid-died with plus points for the board. Just like the PAR card, VLabM records and plays its rootage directly to and from hard disk. However, unlike the PAR, VLabM does not require a dedicated drive. In fact, any hard

disk with sufficient speed will do the job, whether internal or external. As a result, the system also sidesteps another shortfall of the PAR system. At best a PAR card will store around rine minutes of video on a 1.7 Gb drive – with a maximum of two drives on a single system.

However, when it comes to VLabM the potential recording time is quite literally enormous, thanks to a combination of incredible compression ratios and the aforementioned option to employ either a SCSI or IDE drive

During testing I found a compression ratio of 50 per cent allowed a second of video storage per Megabyte. Therefore a single

The wait

2Gb external drive would provide 33 minutes of digital video. If the quality was pushed up to 65 per cent, storage only went up by between 100/200k per second.

I chose this as my final default as it provided very little perceivable loss in quality while retaining glitch-free record and playback on both audio and video.

Having said that, any setting above or around 50 per cent invariably produced impressive results. Of course you can go much lower, with 40 per cent providing image quality roughly equivalent to composite/VHS

Alternatively go to around 80 - 85 per cent. at which point imported images and live footage appears indistinguishable when viewed against the original data/video

footage. However, to maintain reliability at such settings, especially when capturing audio simul-

taneously, a SCSI II drive is essential. As you may have guessed. VLabM shares another trait of the PAR system in that it offers both Composite and S-VHS/YC input and output. Unlike the PAR, the card does not provide a component option, a factor which may limit its appeal in the pro market - as a component signal is usually the preferred medium for those working on BetaCam SP and above

Assuming you've actually installed the board and connected the appropriate cabling to your chosen source and output - whether it be a monitor or VCR - the next logical step is to configure the software.

For anyone who's spent any time at the controls of the original VLab or VLabY/C. the VLabM interface will be home from home. Just like its predecessors, the control software entitled MovieShop follows the

Impact/Fxnact

Recording live video direct to disk is a major feature. however for many Amiga videographers the ability to frame accurately record rendered and general Amiga art

Fortunately, this aspect of the system has been as well designed as the rest of the system. Support has been added for both frame and field imports of 24-bit IFF's

plus there's also direct import of Jpeg images. The only limitation is that the Jpegs to be imported directly must share the same resolution and compression settings as your existing presets. The aforementioned IFF import also offers the added

bonus of automatic size handling. As a result, if the files to be imported are of the wrong size you can specify that the software should either auto-scale, centre, repeat or same tried and tested MacroSystems' for-

mula of independent pop-up requesters for all the boards primary functions However, before you start fine tuning, the first task is to define the target hard drive or hard drive partition for storage. Once selected, the partition becomes a dedicated MovieShop volume which cannot be

accessed via AmigaDos. This is perhaps the only limitation of the VLabM approach to DV. As a result, even though you may only be using 50Mb on the drive the remainder is rendered out of bounds as far as the Amiga is concerned.

On the plus side, reclaiming the drive after you've finished your production is simply a matter of selecting its icon and performing a guick format via the Workbench at which point the drive will reappear in a matter of seconds. As you've probably

cut and scale the incoming data to suit your existing image dimensions As for output, you're provided with a choice between

IFF Deep, IFF, PPM and Sunraster formats as either frames or fields - all in full 24-bit of course. And just to tidy things up, the software will even de-interlace the images for you if you wish.

As far as import speed is concerned there's little to complain about, with the average frame import taking between 10 and 30 seconds, depending on the scaling and conversion the file may require. My only complaint is that there appears to be no way to render direct as you can with the PAR system, but putting that aside, the process appears faultless and, better still



The front-end of the apposition. Much simpler nerhans, but certainly more expensive quessed, selecting a relatively fast hard

drive is vital. If the selected drive is fairly slow, VLabM will still work but you'll be limited when it comes to image quality, simply due to the read/write time of the drive. The actual card can process an astonish-

ing 25Mb a second through it's I/O and

Paul Austin explores the amazing Ulab Motion At last, an affordable solution to the problem of broadcast quality digital audio & video on the Amiga













GRAPHICS

chinset - either to or from the board. This is even more impressive when you remember that the card uses Joeg compression to do it. Next time you boot-up an image processor

and import a video res Jpeg file, make a note of how long the process takes and you'll have an idea just how impressive VLabM really is - especially when you remember that the card is numping out 25 frames/50 fields of this kind of data per second.

Although I've stressed the importance of speed, it's perhaps worth mentioning that our review unit was using a 600Mb partition on a standard 1.2Gb external SCSI drive.

Admittedly, SCSI II would be ideal, but even with the limitations of a standard SCSI interface the system worked admirably with the 1.7Mb transfer time offered by the aforementioned drive

To smooth bottlenecks aften encountered during sudden and large scale transitions in the image data, user definable Ram buffering is provided with a variety of settings with which to fine tune the system to get the very best image quality and drive performance.

I must admit, given the lack of a SCSI II drive I was fully expecting to use a massive buffer to make up for the shortfall in speed. However, after much tinkering I discovered that a 2Mb buffer was more than adequate for most productions. Aside from configuring

On a PAR





late news

Just as this particular feature was being put to bed I received news that an update to the software on-test is already shipping and boasts both digital effects and timeline control.

Better still. MacroSystems is presently putting the finishing touches to yet another update which will provide an audio cut facility which will link and automate audio/video editing

When this version ships. VLabM will be the only system on the market to provide a fully integrated digital audio/video editing environment. And just to top things off, by the time you read this article The Amiga Centre Scotland should be shipping a YUV component module which will then allow VLabM to match available I/O ontions available on the PAR system.



requesters, plus the all important

the buffer, defining your preferred compression ratio and selecting the drive, the only other essential is to define the source assuming your planning to record live action. If that's the plan the video options requester enables selection between a Composite or Y/C source in either PAL or

NTSC. In addition, video correction is also on offer with software control of brightness, contrast and chrominance In fact, due to what is in affect a built-in TRC colour correction and signal stability is

excellent - yet another all important Zorro saved as a stand-alone TBC isn't required. Another well though out addition is the ability to crop the incoming video image. As a



cut and paste and of course recording

result you can reduce the frame to fit perfectly within the screen, therefore your not wasting valuable storage space on the elements with in the image that will never appear on-screen. During testing I used a variety of clip settings and centering offsets, but of course if you or your client want to use maximum over-

scan the clip size can be set accordingly. Aside from the price and image quality of the board, there's a third factor which makes VLabM unique. Unlike the PAR system, the MacroSystems card is the first Amiga DV product to offer usable off-line non-linear

Although the PAR offers a variety of special effects and unsurpassed image quality, it's very difficult to use as an editing environment. If you simply want to import 24-bit animation of compiled pre-edited material. it's excellent. However, when you start to cut copy and paste a variety of scenes together, life becomes much more difficult

Due to the PAR approach to DV it's forced to actually move data around the drive during editing, which invariably causes long delays as files are transferred and the drive recalibrated VI ahM on the other hand uses a non-

destructive editing process which means edits happen instantaneously. In fact, the data isn't touched. Instead, the drive simply hons around the sequence of images as if it was playing samples from a sequence.

Obviously you can delete scenes entirely when the need arises but due to the approach taken, large scale editing, whether it be entire scenes or just single frame strobe











effects, are instantaneousness and blissfully simple.

The actual approach to editing is also wonderfully simple and efficient, in fact it's more akin to word processing than video editing. Basically the process works on a directory structure basis. Perhaps the best analogy is provided in the

manual where it describes individual shots or scenes as words which can then be strung together in a chosen sequence to form paragraphs or groups. These groups can then be combined within parent groups to form chapters, and in time an entire movie or book is compiled.

Although this may sound confusing in the video sense, after a few minutes of experimentation it becomes second nature. However, editing can be even more subtle.

For example, you can record a scene, cut a section out - using the jog shuttle in combination with the mark, cut, copy and paste commands - then select an existing scene move to the desired frame and insert the block of video from its counterpart

Using this approach, it's possible to generate an entire movie using a single giant scene file which is appended to as each element is

imported or grabbed - flexible stuff. Like its counterpart, VLabM also boasts the support of 16-bit audio via MacroSystems very own Toccata direct to disk sampler.

As you've probably gather I'm pretty impressed. What the system lacks in comparison to the PAR in certain areas - such as sound - it makes up in others, so I can't really complain

In fact, the only aspect of the system which may cause some confusion is the set-up procedure which in my experience is worth taking some time over I'd suggest a new user should spend at least two to

three days experimenting with the various compression settings and general config. The reason for this is that once you've started a project with a particular set-up it cannot be changed until you start a new one - thereby clearing all the data from the drive. This sounds dramatic, and if you run into record or playback problems half way through a project it can be As a result, thorough testing is essential to ensure you get the best possible image quality, audio reproduction and reliability

The reference to having one project at a time may scare some into thinking the system will limit them to just one job at a time - in fact you can be in production on a number of movies at any one time. It's simply that all will share the present resolution and compression settings in their particular project. However, even with the odd inconvenience. VLab Motion still stands head and shoulders above the opposition when it comes to a combination of price and performance. In short, by far the most impressive hardware release of the year.

Ilprdirt

accompanying video. However, if the sequence is split, or perhaps a section is incorporated into another sequence, the naming link is lost and with it any semblance of lip sync disappears.

You could manually reconstruct the audio track separately and reconstruct the link. however this is far from ideal.



and assorted I/O settings, select a drawer in which to store the sampled sound and finally select both play and record in the MovieShop audio control screen When you record your next segment of video, the accompanying audio track is samated audio track.

pled automatically. If you then play back the scene it will be accompanied by its associ-

tenuous. In practise, linking the two is very

simple, you just select the Toccata control

panel as a plug in module, define the source

Although this is great when you compile movies from pre-edited material, it does fall down if you decide to start editing. Unfortunately, the audio link is based around giving the sample the identical name as its



A classic example of the import/experi nower on offer shhed direct orted into ADPr exported and re compiled frame curately into the iginal sequence











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he list of things you can't do with Lightwave 3D wouldn't take a long time to write down, and in terms of paper usage it would be very ecologically friendly. However, with the absence of such cutting edge techniques as dynamics and particle animation, there are one or two glaring omissions.

Packages such as Dynamic Motion Module and the soon to be released Newton's Law take care of most shortfalls found in the current version of Lightwave PAL, but particle animation is one thing we've not been able to do until the release of Sparks.

Particle animation refers to the use of preset rules to make a large number of identical objects perform in a more or less similar fashion without the user having to move and reposition every object by hand, and is ideal for everything from a shower of sparks (hence the program's name) to a flock of sparrows flying overhead.

Individual "particles" don't have to be single point polygons such as those used in modeller to create pseudo-fireworks effects - they cah be any kind of object you like. The name merely applies to the fact that each object acts individually but within a framework the user sets up for the group as a whole.

In use, Sparks operates as an ARexx control for Lightwave. The rather basic front-end hides a powerful system which offers control over just about every aspect of particle movement. The number of particles used, how many are added per frame, initial velocity, whether they will follow a pre-designed Lightwaye motion path, gravity, wind, and many other factors can be altered to achieve a myriad of different effects.

For example, setting the angle and spread for the "nozzle" from which particles are emitted is easy, and with gravity turned on it is a doddle to simulate the stream of sparks from an arc welding torch. What's more, particles can be set to react to gusts of wind, bounce on the ground object (though they won't bounce off any other object in the scene), and recycle themselves.

Once a particle has reached the end of its lifespan, it will be emitted from the nozzle again so that continuously running fountains and so on can be created without having to use hundreds of objects. Making them follow the track of a motion path which corresponds

All in good time



A Sparks scene when loaded into Lightwave ese bats will now move in a huge flock



Steuie Kennedy jains the flack with Sparks. Lightwave's add-on particle animation system Instinct



and spray confor any stream

to the end of a snaking garden hose can also give the effect of a convincing stream of water in Lightwave Individual particles will move in more or

less the same way as each other for the most part, but a variable percentile effect can be added to alter the speed of each particle. When this is combined with wind effects such as gusting and the use of flakes, a nice little snowstorm can be created in minutes.

EXPLOSION

Even better, it is possible to specify a source object from Lightwave and have the object's surface explode as a shower of particles. The control one has over the behaviour of the particles means that it is possible to create an object, save it out, cut away the faces you don't want to turn into particle merge this with the saved version, and complete the animation by rendering the particles.

By working with objects which are substituted for the particles, a simple motion path and the Sparks treatment, setting up complex scenes is made much easier. A flight of Stuka dive-bombers peeling off into an attack can be simulated with a single model and a motion path, as can the sort of effect you see on corporate logos where a line of stars rushes into the screen and forms up in a circle around a central image.

Sparks also enables the setting up of gravity wells which can affect the way a flock of particles moves during a scene. With a negative gravity positioned invisibly around another object such as a rock on the sea bed, a shoal of fish can be made to flow over and around the object and automatically fall back into the shoal once past the obstacle

If you want the particles to rush towards something, such as a magnet, just set up a target object and no matter where this is moved in the Lightwave scene, the particle stream will aim towards it. To create a stream of iron filings which drift down a piece of paper, round a magnet which repels them, and then towards one which attracts them, you need only two objects and a motion path. 100

The battam line

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Amiga Computing continues

its sparch for the ultimate in sprinus Amiga (1) —



Ithough Amiga Computing brought you a breakdown of the serious CD-ROM on offer during the last issue, a couple of CD-ROM essentials just missed the deadline. As a result, what follows is dedicated to a brand new CD duet from Micro R&D Inc. Although the two are entitled volume #1 and

#2 - in what I can only assume will be an ongoing series - the twosome take a very different approach when it comes to content. As a result we'll look at each in turn

Logically enough we'll open with volume #1, which in my opinion is the stronger of the two and could well challenge for the best general purpose compilation CD I've come across In addition to the general interest stuff -

which we'll look at later - one of the real highlights has to be the inclusion of Transition, which as the name suggests is an impressive graphic conversion and processing program which also offers the added bonus of batch processing. Although not in the same league as ADPro or

ImageFX, it's nevertheless an impressive addition to the CD and is ideal accompaniment for the assorted graphics, which in many cases require conversion from their native formats. Yet another excellent addition to the CD is a

collection of 79 Lightwave objects which come complete with their associated surfaces and reflection maps. Unlike the vast majority of CD model collections, the R&D range is not just another down-

load from the Internet or wherever else. In fact, all 79 are Professionally generated and supplied exclusively by Gateway Productions If DTP is more to your fancy you're also pro-

vided with no less than 500 fonts in both PostScript and Compugraphic formats, the latter being directly compatible with both Workbench

2/3. A particularly interesting and, dare I say it. fairly unique addition is a library of books encompassing the works of no less than 18 authors. such as Wilde, Stoker, Kipling, Longfellow and

Quite what the legal implications are of publishing such well-known authors work as ASCII files on a CD is something I'm not entirely sure about, but whatever the legal position their inclusion does add a little intellectual depth amidst a sea of utilities, sounds and assorted scanned images. On a slightly more obscure note, the creators

have also added a comprehensive collection of



fun at the AGM of the fury collar club. In addition to the locomotives, there's also a huge collection of assorted IFFs as both 24-bit

and colour mapped images. Add to that an equally varied collection of GIFs and Jpegs and there's no shortage of general imagery focusing on a vast array of subject matter Quite how useful the vast will be is another

matter, but there are no complaints about overall quality. However, it must be stressed that the images are in a variety of sizes, with little if any being in PAL video resolutions. Which leads us nicely on to volume #2 of the R&D Inc duet. ES

showing a sma ion of some of the excellent Lightwaye objects on offer in volume #1 of the RAD CD collect

A small selection

The pro video volume?

In comparison to its predecessor, it must be said volume #2 is a much more conservative offering. It's true that all the files share the same overall quality you'd expect from a CD dedicated towards the serious video market, but it must be said there are one or two things that could impair its progress into the list of essential

Firstly, the authors have taken an all too familiar approach to the often tricky problem of filling the 640Mb of storage the CD provides. Like many others, the solution has been to replicate the assorted 24-bit backdrops as Framestores. Joegs, GIFs, TIFFs and IFFs. To be fair, this is a space-filling tech-

nique employed by countless CDs. but given the fact that R&D has already given away Transition on its first release there seems little excuse - why not add a wider variety of images and include Transition to do the conversion Leaving the question of duplication

aside, their is another slightly curious aspect to what claims to be a "must have" video product. Although perhaps true in the US, it isn't quite the case on this side of the pond As you've probably guessed, all the

images are in the NTSC video resolution of 752 x 480, which of course will require rescaling if they're to be used as full screen backdrops in PAL productions.

To be fair, rescaling does very little damage to the vast majority as most consist of assorted stones marbles naner and brickwork. In total you receive 72, 24bit textures split into six individual sub-In addition, you also receive a massive

collection of space and NASA images, the vast majority of which are in GIF format which of course will require some kind of As a final giveaway, a demo of

Broadcast Titler 2 has also been included alongside some example images from Montage. Basically a pretty good CD, but not really in the same league as volume

The bottom line

Supplier: First Computer Centre Price: £39.50 approx (RRP £59.95) (for each volume) Tel: 0532 319444

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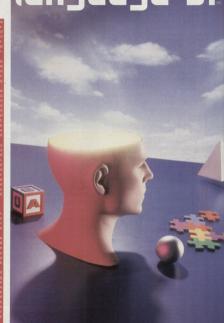
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The language of



learning

Fancy starting from scratch, or polishing up on a foreign language? Wilf Rees looks at the offerings, and gives advice on how to go about it. —

Little title, big change.

LCL has produced its Micro French, German and Spanish for some time now, and until recently these all came with an audio cassette to play alongside the software. All this has changed now, as LCL has brought the titles up to date by adding idilitied space to the suite of programs.

All of LCL's range of language software share the same format, addressing learning from a fairly conventional approach. Emphasis is placed on a collection of 24 structured lessons, which are undeniably geared towards GCSE, yet offer an additional broad spectrum of other topics. All of the range will work on any Amiga, and the lessons are divided between two disks, a choice required at boot up.

Looking at Micro Spanish as a sample, the box contains two disks, a manual and a 6000 word Spanish/English dictionary. On loading, we are presented with a menuscreen, displaying the contents of the first

Pronunciation is the first program on the fist, and this is a combination of written and digitised words which are presented and require repeating. A gadget in the op right-hand corner translates each word on request. Colours is a short routine for teaching appropriate words for coloured boxes displayed. All nouns in Spanish have gender, and Article attempts to give clues

which might help in guessing the gender of a noun. Conversation presents a questionnaire which asks about your name, age, family and weather. The program then goes on to ask questions in both spoken and written form, regarding your reply. Three choices are offered as replies on each.

Big Picture Vocabulary presents a large illustration of a lounge in a typical house. Twenty six objects are identified with letters and lines, and the objective is to type in the correct Spanish pame for each object.

In Listening, a word or phrase is pronounced, then a sentence is displayed with a dash indicating the location of the spoken word or phrase. All you are required to do is type in the Spanish element which is missing.

PROCESSES

Ser and Estar handles the complexities of the Spanish verb "to be," differentiating between the temporary and permanent attributes of the verb, using the same process as earlier; typing in the correct response to a written question.

Wordsearch is a typical example of what the title says, in that words are first given with their meaning in English. All are four letter words, and no wisecracks – I'm being serious – then pressing 'C' displays the puzzle. The Translate feature works as a

Test 1 Score BX 32 secs.

A second se

This time it's Micro French from LCL, and this shot demonstrates the main working environment common to all of the LCL Micro

to all of the LCL Micro range. In this particular example the objective is to identify the name of the article displayed and type it in. The are

several facilities to help with the written French language, such as accents and circumflexes, and the translate button will always operate as a help facility help facility. Sixteen other topics go to make the Micro Spanish program, along with all of the Micro series – a comprehensive and thorough introduction to a language at a remarkably good value for money price.

I would particularly like to pick out a feature which is common to the German and Spanish courses, but strangely not present in Micro French, and this is the business letter generator. I think this is one of the most admirable features of the whole suite of packages, and a very useful facility.

Multiple phrases can be chained together to compile a letter, and in each of the phrases there exists multiple options to correct gender, date, location, or any relevant factor.

So, have the additions to the Micro series made a lot of difference? Well, the quality of the speech is reasonable, if sometimes rather muddy, and the samples are occasionally disped a little too tightly, but the changes do add to the programs and I like the balance between entertainment and content.



ries is the living room of a typical Symmith are told, by LCL. Micro Spanish has an assortment of exercises, and this one is intended to aid with vocabulary development. Several drivines articles in the room are identified by a fine and a letter, and the object of the exercise is to type in but the properties of the exercise is to type in the properties of the exercise is to type in the properties of the properties the the properties the properties





Full marks

10 out of 10 software is a relative newco mer to the education market, and in among its range is 10 out of 10 French. Compared to Micro French from LCL, the whole presentation is much crisper and more in keeping with what we expect to see on our Amigas.

No digitised speech to help with pronunciation, but a whole lot more fun, making the learning process less of a task. Six games are offered to challenge the user. intended to prepare students for Key Stage 3 and 4 of the National Curriculum.

Before commencing the whole ensemble, however, there is the important issue of registration to complete, and this is very important. Inbuilt into every one of 10 out of 10's educational offerings is an achievement record, which charts the progress of each of the registered users.

This is a superb addition, both as a parental check on how well the software is being used, or even by a teacher in class to keep an accurate and up-to-date record of pupil progress. The achievement record starts as a well presented chart describing all of the six games along the top, and down one side are the six progressively

difficult grades of each game. As a game is attempted, the results are recorded by a colour-coding system which

This is one of the out standing features of all of 10 out of 10 software. Record charts the

the way through the software, recording scores, and displayer the results visually Many of the stages can not be accessed until

ertain target scores are exercise. Completion of mask boundaries are

domonstrated with a same of colours, from range of colours, from than 50% correct, to Black demonstrating a lim : Achievement Record 10/10 0:0: 0 5 6 5 0 2 0 0 i e d 0 b a s . . .

gives an instant visual representation of attainment. The three categories of colour are: Red - less than 50%, Yellow - more than 50%(giving access to the next grade) and Green - 100%. Finally get each level of each game correct and the square turns blue, the ultimate accolade! There is also, for the serious gamer, a

separate regular high score table. This adds to the competitive element of the learning, and makes a welcome addition. The six games feature a combination of arcade action and intellectual challenge. and each can be selected from the main menu. The Cop is a question and answer, and visual guessing game. Objects initi ally, then later on phrases, travel up and down either side of the screen, and they represent either the answer to the question in the centre, or the name of an All you have to do is click on the small

C

travelling gadget to respond. You need to be quick, because you are constantly timed, and this affects your score on the league table.

Tower features six insects climbing up the Eiffel Tower, and unless you answer

French Connection



Europress has a title to enhance its extensive range of packages for education. That friendly and helpful alien by the name of Adi returns to earth again with a program targeted at GCSE French.

As is often the case with Europress' software, an "Environment" front-end, filled with an assortment of activities to occupy time, is used, as in the previous Adi Junior titles

With this new "Environment" release we are invited into Adi's living room, which contains a



Moving away from the main Envir noment of AdigCSE. we enter the applications. This is the main screen from French 14/15, and as the mouse pointer moves across the picture, dialogue boxes open which describe the different activities available on this half of the package

collection of assorted objects. In the centre of the room is an image of a TV, with four click buttons allowing access to some of the environment activities and applications.

This route also provides access to the specific French applications. These are divided into two categories: 14 to 15 and 15 to 16. Along the bottom of the screen are a collection of gadgets which provide additional provision for support. Accrued points in the applications section persuades the program to offer a range of games to play, growing

in complexity as the points increase. Two additional facilities provide means of text recording. A Diary, which is password protected. and a simple letter-writing program, also password protected, allow save and read options.

EXCELLENT

The French application offers a range of well presented and appropriate tasks for the subject. On line help, increasing complexity, recording achievement and amusement run throughout all of the applications, and the content is excellent. The two French applications are entered through

the centre of the television, and each is commenced by a main menu screen, depicting a picture. From each of these pictures, moving the mouse pointer across the image causes a dialogue box to open and describe the content of the particular exercise. Once the dialogue box is opened, a further picture is presented to describe the contents



From the main menu of the AdiGCSE 14/15 French application, this is one of the sub-routines dealing with money matters. Again, moving over the picture causes dialogue boxes to open, and these will lead into other specific applications. Pointing at the foreign exchange board, for example, will start a tasi to do with money conversion

An example of this is the "Spending and Saving

your Money" routine, which features a picture of the foyer of a bank. All exercises after this flashy introduction seem a little tame, as we are faced with what are basically multiple choice questions. or 'fill in the missing letter exercises.' Nevertheless, AdiGCSE is a very well presented package, with superb graphics and sounds.

the translations correctly, causing the insects to be sent back down, they eventually reach the top. Sounds pretty dull, and I suppose it's not the best of offerings.

Wordsearch is exactly what it says it is. Link-up is a matching game, where pictures to words, or anagrams to phrases have to be matched. An open or closed door feature gives restricted vision time, adding a memory element to the ongoing challenge, along with the inevitable timer.

SEQUENCING

Stones is probably my favourite application, possibly because of the Gaul influence (Sorry ed!). Several pictures of famous French people appear on the screen, the first couple of whom have a

word ascribed to them.

These words represent the beginning of

a sequence, such as months of the year or days of the week. At the base of the screen are four boxes, each with a choice, and you must select the correct word to continue the sequence.

Finally, Rescue is an out and out arcade game with assorted answers floating in space. Your rocket ship files around collecting the correct ones to answer the question. Simple at first on level one, but the boosters become available on higher levels, and things get a bit hairy! This is

really addictive, I love it.

Work your way through the exercises, and at different levels, and 10 out of 10 French will print a certificate of achievement, demonstrating your success. This package is a superb blend of educational value and arcade amusement — great value for money.



cop asks you to select the correct question from the phrases which are travelling up and down on either side Not as simple as it looks for two reasons. Firstly it is necessary to click on the tiny box adjacent to the nhrase to achieve success, and secondly you are being timed, and the faster you select

correctly, the better

Into French from 10 out of 10, and this



Finally down to the actual learning exercises, and this is the nature of the presentation – a multiple choice offering. It dose get better, but while AdiGCSE is visually excellent and the sound effects amusing, I am not convinced that the content is adequate in relation to the special effects. I think when anyone gets to the age of studying for a public examination, yes appearance is important, but do 16 year-odd like taking the an odd looking over-familiar allow.

Out of this world

Kosmos has a long tradition of producing Educational software, and its foreign language programs cover several European titles. Like LCL, Kosmos adopts a fairly traditional approach to the learning process, offering 32 lessons on each package which provides a very comprehensive and formal structure.

Inbuilt, and central to the Kosmos range, is the tuition control program. This allows the user to construct personalised lessons, appropriate to a revision programme for an examination or a homework list, or possibly a database of technical work.

The main menu screen offers 1 options, listed A to J, and these allow movement around the contents of th package, such as Basic Principles am Definitions. Vocabulary learning Creating a lesson, or Listing available

Entering "Listing available lessons penering "Listing available lessons and hese cover topics such as, Family cods, Countryside, Parts of the body and Weather. As we move towards the end of the list, more complex issues an anadled, such as Conjunctions an "repositions, Conditional Tense an lefts-Future Tense.

Essentially, the lessons are lists of either words or phrases with their English translation, and by either direct input or multiple choice the user work through them. Although the Kosmo range is not particularly fleshy when comes to graphics, it does have a ver professional feel about it, and it certainly was one of my favourities.



The Italian Tutor from Kosmos, showing the options available on the menu. Not the flashiest of products, and no digitised speech to aid promunciation, but a thorough all-round peckage which will sure as a con-

With All of the Kosmos Tutor range, the facility to construct one's own lessons as aide memoirs is an excellent and very central element to the saile of programs. This example demonstrates my outstanding command

language, and the subject specific capabilities of the software



Uisual learning

Last, but by no means least is Audio Gallery from Coombe Valley Software. This is a visual language aid which uses nictures of locations, such as a living room or a supermarket, and numerous articles are ascribed numbers. Pointing and clicking at the object causes the word or relevant phrase to be sounded in whatever tonque vou have bought.

There are over 400 key subject words. triggering digitised speech, guizzes to test knowledge, and a comprehensive manual/translation aid accompanying the

Audio gallery is not a foreign language tutor, more of a vocabulary and phrase extender, and doesn't handle the grammatical or structural sophistication of some of the packages discussed.

What it does offer, however, is such exotic titles as Chinese, Japanese, Russian, Korean, Dutch and Portuguese, as well as the conventional European offerings. There is also a "Signing" edition

All you need to know

			Ed. Value	Docs	Ease of use	Overall	Price
Micro French **	LCL	5	4	6	4	5	£24.99
Micro Spanish	LCL	5	4	6	4	5	-
Micro German	LCL	5	4	6	- 4	5	
French	10 out of 10	5	5	6	5	5	£34.99
AdiGCSE French	Europress	4	4	3	5	4	£25.95
The French Mistress	Kosmos	5	5	0.	4	5	£20.39
The Italian Tutor	Kosmos	5	5	0.	4	5	TO MANUEL STATE OF THE PARTY OF
The German Master	Kosmos	5	5	0.	4	5	100 A
The Spanish Tutor	Kosmos	5	5	0,	4	, 5	
The Italian Tutor	Kosmos	5	5	0,	4	5	
Audio Gallery French	Coombe Valley	4	3	6	5	4	STATE OF THE PARTY OF

Read Me file "CD-Rom version available: £34.99

on the way, to aid the hearing impaired. It's good fun, and not too heavy - though more appropriate to a holiday preparation

Est

Au fin de la iour!

Lets face it learning a language is not simply a case of going out and buying the software. Acquiring the necessary ability to communicate effectively in any foreign language is a combination of two factors; knowledge and skills

The knowledge component is the learning process involving grammar and words - the most tedious part, but necessary if communication is going to be effective. There really isn't any short-cut to achieving this element, it boils down to contact time,

learning capabilities and memory retention. The second component, and probably the most enjoyable and important, is the skills factor. This is where pronunciation. accent and nuance are developed, and this can only be achieved through speaking.

Using software intended to develop lanquage skills is best value if its use is reinforced with some additional input. This could be in conjunction with an evening class, a local group or a friend or colleague who is either a native of the country or fluent in the tongue. It's very important that confidence is built up by regular use, particularly with someone who can give guid-

ance or correction in a supportive way. If you are learning a language for an examination, try to get on one of the exchanges which many school or local authorities organise, and if you do, ensure you never speak English while you are there. You will find that Europeans will invariably try to speak to you in English, and this is an easy option, especially when you are stuck, but resist. Try to think laterally if you encounter a

communication problem. For example, if you go to a shop to buy washing-up liquid, and you don't know the words for washingup liquid, ask for something to go in water to help get plates, or cups - or any other article you do know the word for - clean, after eating. But make sure you don't buy



A famous landmark for anyone who has travelled down from Normandy to Brittany. St. Michaels Mount is the leading seepen from Audio Gallery Erench. Did you know that the utton of this region is famous for its flavour, attributable to the fact that the sheep graze on seaweed



The Italian Tutor from Kosmos features at in-built self-test function which allows the construction of dedicated lessons, and the ability to test oneself on the contents

If you are wanting to learn a foreign las

guage from scratch, then I don't think the Audio Gallery range is an appropriate choice, it is more suitable for extending vocabulary and phrase knowledge in an already familiar tongue. What it does offer is a degree of light-heartedness, and a less serious approach to what can be a real tedious dra

Contacts

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eulaV rebrO

Ith most home users dabbling in the craft of creating moving images or presentations on their Amigas, the likes of Pro Grafa 24RH are valuable tools at a reasonable price. This addition from SoftWood adds to the swelling ranks of digitisers for the beginner to semi-professional.

The package is made up of the digitiser box, cable and a single disk for the software. Once the appropriate composite sender has been set-up (in the shape of a video recorder, camcorder, or satellite), simply slap the disk into the filosop drive and box turn the reorgam.

into the floppy drive and boot up the program. There are two versions to select — the normal program that will work on machines without FPUs, plus an FPU specific version for those running a matris co-processor. For hard drive users, Pro-Grab is easily installable with no need to make any additional assigns.

Loading in the digitiser presents the user with a Scala-like front-end and, like the multimedia classic, it's very straightforward to use. There are two basic functions to the Pro-Grab. The first is grabbing a single frame and the second, the ability to crab an "animation"

of whatever is being fed into the Amiga.

Single frame grabbing is operated by a control panel that gives the user the option to preview the composite signal via a small window, the action being shown in black and white.

With a click of a button, the frame is frozen in

memory as a 24-bit image.

By using the extensive screen modes on offer, a healthy amount of different formats for the grabs including HAM 8, HAM 6, in both high and low res with or without overscan can be selected. The user is therefore able to adjust accordingly to suit their particular

machine.

The picture can then be loaded in as a fulscreen image which is then decoded for colour. The main problem with this method is that, if you're looking for absolute accuracy in the exact frame you want to grab, it's going to be a long stog.

The image shown in the preview update is by no means 25 frames a second and judders along instead of providing a smooth update. This unfortunately means that the Pro-Grab is not particularly valid for professionals who require exact frame capture.

In addition, decoding of the picture can take considerable time in higher resolutions. Even though 4Mb of fast Ram was on hand, the

Teletext-tastic.. nearly

+

As a bonus, a device for grabbins screens off teletext has also bee included. Unfortunately, at present, it is only possible to grab off satelith television because the package is no compatible with the UK terrestrial sys em. SoftWood is hoping that Pro-Gara will be altered to accept all systems in the near future.



Differing effects can be added to your grab - in this case, a low res image is





Digitised delights

SoftWood enter the —
digitiser arena to —
hopefully bring us the —
same high quality as —
seen in its word —
processors. Adam —
Phillips reviews... —



process still took between 40-60 seconds to decode a high res Ham8.

Once the image has been decoded, there are 19 different effects that can be added. Woodout, laplacian, gaussian, sharpness and a host of others can be applied to the picture. Saturation, contrast and brightness are also fully adjustable and experimenting can yield relatively effective results.

On completion, the finalised grab can be sadd in different formats — JPEG, IFF, Clipboard or Pro-Grab's own customised FG24. After that, Deluxe Paint 4, Scala and a catalogue of programs can be used to after, create and change the image.

The other section, animation, is not as successfully implemented. The idea is to capture recessfully implemented. The idea is to capture is a string of frames to form a moving image to the used in presentations and what-have-you. In practice though, even on a high-end Arriga, the grad rate simply isn't high enough to create an effective animum unless you're looking specifically for a unuless you're looking specifically for a consistency of the properties of

amount of memory you have. On a normal 1200, you're restricted to a quarter screen greyscale of the captured frames and can't access the colour options.

In all though, while the Pro-Grab 24RT has its shortcomings, this is relatively cheap at £129.99 and the picture quality in the higher resolutions is of a good standard but not up to broadcast level. Recommended for beginners and not-too-serious users.



The bottom line

Product: Pro-Grab 24RT digitiser
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Distributor: Gordon Harwoods, New Street, Alfreton DE55 7BP Tel: 0773 521606

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It makes me so angry...

standard.



Conceptually, I think that the Arriga is superior to both the Macintosh and PC, which is why I paid over £1200 for an A4000/030 last December.

A4000/030 last December. For the £1200 I got a machine with 4Mb of Fast RAM, 120Mb hard drive and a 33MHz 68882.

I know that \$1200 was a lot to pay for an object of the pay for an obje

Also I found that the 800x600 resolution described in the Commodore brochure turned out to be 800x300 interlaced – which is pretty useless for Workbench because of the flictor. Bog standard PC video cards costing only

£50 or £60 can do this, so why can't AGA?

Another problem I found later on was that there is sometimes a one pixel wide line down the left-hand side of the screen that I cannot reach with the mouse.

It seems to me that Commodore came across these AGA bugs, couldn't fix them, but decided to produce it arryway – perhaps they thought Amiga users didn't expect the same quality as PC or Mac users.

A low-end Power Mac can be bought for around £1300-£1400, which is around the same price as my A4000, plus the multisyno monitor that I already had. A low-end Power Mac would have a 60MHz PowerPC processor, a 14in screen and a CD-ROM drive. You could get a 4860X2/66 instead if you could get a 4860X2/66 instead if you

I can't help feeling that the Amiga is no longer very good value for money when you compare what else you could get for the same price. It's almost as if there is one price standard for the Commodore, and one for everybody else.

Discodinit. Salissbury.

D Goodan, Sans

To be honest I can only sympathise about the idiosyncrasies of the AGA chipset. Although a fine idea in principle, it never quite achieved its potential in practice.

In fact the huge profusion of screen modes and associated monitor complications have probably done the Amiga more harm than good when it comes to the overall appeal.

However, if you've been keeping an eye on the Amiga news section of late you may have aiready noticed that Commodore has now dropped the plans for the AAA chipset. As a result, any new machines requiring hi-res screen modes will almost certainly ship with some kind of hardware filkering as.

It's unfortunate that Commodore didn't stick with the flicker fixer included approach as used in the A3000, in addition to the assorted AGA options.

As for your comments regarding both the Mac and PC, of course you're absolutely correct about both the pricing and display options. However, it might be worth considering just how long it would take to eat up any initial saving on software and hardware.

For example, would you be willing to spend between £300 and £800 a time for programs like Word, Photoshop, Quark Xpress and all the other power packages which have counterparts on the Amiga at a fraction of the price.

If so, would you then be happy to spend even more cash on upgrading your so-called bargain system with the necessary RAM and hard disk space essential to run and store such

I'm certainly not trying to say the Amiga is perfect. But it's often worth looking a little closer than the list price of an alternative system before leaping on the Amiga bashing bandwagon. H Same

Hello world!

Please could you give a mention for The Third Dimension user group and diskmag. The group is for users of 3D Construction Kit 1 and 2 and produces a monthly diskmag. The disk includes tutorials, helolines.

letters, problem pages and answers, a user group game, 3D environments, 3D data, 3D areas, 3D objects, samples, sample banks in the 3D kit format, beginners through to advanced advice, step-by-step-routines, 3D borders, animation brushes, the very latest information on the 3D kits and anything and everything connected with the 3D Construction Kits.

There is quite a large friendly user base for this disk and all users are invited to exchange ideas, advice, letters etc. if they so wish.

etc. if they so wish.

The disk is available at the new low price of only £1.50 each month to anyone who wants it from the following address: The Third Dimension, 19 kilbling Close, Lockwood, Huddersfield.

T Hartley (Editor)

HD4 5HA.

Service without a smile



First of all I would like to say that I enjoy your magazine and greatly appreciate you coverdisks. Unfortunately, the point of this letter is to carry a complaint about one of your advertisers, and the poor service I have received. I sent an order, accompanied by payment, for

I seint an order, accompanied by payment, for five disks to Software Expressions on 12 September 94. This was followed by a lotter on 25 September requesting either the disks or a refund. I also requested that if the original order had gone astray, could they let me know so that I could reorder. I have received neither disks, refund or letter, I I have received neither disks, refund or letter, I

That's received herarer disks, reland or relief.

think this is very shoddy and as I found their advertisement in your magazine, decided to write to you so that if this is their normal mode of business, then I think people should be made aware of it.

Please understand that I do not blame yourselves in any way for this, and I am quite prepared to put my loss down to experience. However, although I do not consider my loss very

great, I am not sure that this would be the same for a younger person who had parted with savings. Also, with any luck, seeing this letter in print may spur them to get in contact with me.

contact with me.

R L Baskerville-Mansell, Ruislip

Well firstly, can I apologise on the behalf of the aforementioned advertiser. As you suggested, I can only hope that printing your letter will indeed spur them into some form of positive action.

Alas, dubious advertising seems to be becoming a real problem over recent months, and as a result I'd like to make one perfectly clear that any advertiser who doesn't supply the goods, or refuses to give refunds will get the

goods, or refuses to give refunds we coverage they deserve...

Advice bureau

Although I consider myself fairfy well verse when it comes to the Amiga, I must admit a little advice would not go amiss at the moment. Like many Amiga users out there, I'm a member of the old guard running a none AGA machine.

none AGA machine.
In fact, the machine in question is a tried and trusted A3000 which I love dearly. However, the one that could do with improvement is the range and variety of available colurs and resolutions.

I've already considered upgrading to an A4000 but after investigating a possible purchase with a number of retailers it appears I've got more chance of winning the pools than finding anyone with one for

The second option is to invest in a retargetable graphics card, but to be perfectly honest I'm unsure about the whole subject – hence the plea for some much needed advice. Which in your opinion is the best buy and why?

Dairy opinion is the best buy and why?

Well firstly you've already got one of the best machines Commodore has ever put out. The A3000 was and still is an excellent machine and I'd advise anyone to add too it rather than exchange it – at least until the mythical A5000 hits on the market; we live in hope....

As you mentioned, the only thing that

Wanted: Pro help



Hi, I don't usually write in to magazines but under the circumstances there seems title alternative. Being a semi-pro Amiga videographer, I occasionally require 3D elements in my productions.

In most cases this isn't a problem as I'm reasonably well versed when it comes to general modelling. However, I've recently been offered a commission from a client who wants the style of their printed material carrying through into an accompanying video.

Unfortunately, all styling features and lopotypes are only available as ESP files produced with Quark Xpress and Photoshop. I've had no problem porting the files over to the Anniga on PC disks and loading them into PagStraam. The Anniga on PC disks and loading the into PagStraam the question is how can I turn these fifes into 30 objects. I've tried outputing bitmapd versions and then importing these via the import bitmapced option in Imagina.

Unfortunately, my machine doesn't have enough memory to do the job and if I scale the images first the quality suffers quite dramatically.

ideally, I then planned to export the new objects as DXF files and re-import them into Lightwave for use within the planned animation.

Paul Kettle, Leeds

Well lucky for you there is a painless solution in the form of Pixel Pro version2. Unlike its predecessor, this new version supports import and the A3000 lacks is colour and resolution – however that's where RTG's come into their own. Although there's a wide range on the market, my advice would be to stick with the most widely supported boards, namely the EGS Spectrum from

boards, namely the EGS Spectrum from GVP or the Picasso II from Village Tronic. Personally I'd opt for the Picasso II as it's well supported, fast, friendity, and rock solid when it comes to reliability. However, regardless of the board you invest in, it would be a very wise move to

also upgrade to Workbench 3.1.

Although this may seem a curious move on a none-AGA machine, the upgrade does offer massive benefits for

anyone running an RTG board. In the case of the Picasso, running Workbench 3.1 means you can have all the benefits of an AGA machine without investing in new machines.

All the major RTG boards can run Workbench on their own screens – which in the case of Picasso means up to a 256 colour Workbench as well 256 for any software that uses Public screens.

Therefore, just about any productivity package you can think of will run in 256 exactly as it would on an AGA machine. But even better, screen update and scrolling will be much faster on your rejuvenated machine than it would on a standard A4000. In addition, you'll also have the huge advantage of a true 24-bit display when it comes to image processing play when it comes to image processing demand 24-bit to be done at their best.

oemand 24-bit to be done at their best...
If you're convinced, get in touch with
BilterSoft on 0908 220196. They should be
able to supply both the Picasso II and a
3.1 upgrade. If you'd prefer an EGS
Spectrum try giving Silica a call on 081309 1111.

Home helo

With reference to the article "Home Video" by Gary Whiteley, September '94 issue, can you or Gary supply me with a phone number or address of a supplier of Lola Electronics peniocks.

R Roach

After a brief chat with Gary, it transpires the chap you need to contact is Tony Banham on: 0858 880 182

Words of warning

I am writing to you with a cautionary tale about an order I placed with the now defunct company, Hobbyte Computer Centre, which was once a major advertiser in your magazine.

On Tuesday 23 August I placed an order for an FPU and a virtual memory package. I was told that the items were not in stock but could be obtained by the next day and delivered by the end of the week.

After two weeks of being bobbed off on order. After a cancelled my order. After a third tweek I wrote to the manager third demanding my money back. A week later demanding my money back. A week later in to assess the situation. After being forced to make a scene to get any response from the staff it turned out that the home computer side of the business. Index one to the processor of the staff it turne out that the home computer side of the business.

had gone into receivership.

Needless to say they had debited my card immediately knowing that the order would not be filled. I am now pursuing the matter with little hope of success with the

M Teebon, Northampton

As I mentioned in the last letter, the problem of unscrupulous advertising is something we're all going to have to keep a much closer eye on.

receivers.

Basically, the only advice I can give anyone is to exercise caution when dealing over the phone. If you get the all too common "we're getting some in tomorrow" speech I'd seriously consider trying elsewhere.

If a retailer doesn't have the resources or organisation to manage

basic stock control they've not worth doing business with.

All too often smaller companies use the 28 days for delivery clause as a buffer between ordering and delivery.

You place the order with them, they place the same order with a distributor. Obviously, this is great for their cash flow but hardly ideal for you. What if there's a problem? Your money is already spent and if the situation ends in liquidation the retailer has no per-

ceivable assets.

The only safeguard is to deal with larger well-established companies but as your case illustrates, even this can sometimes end in disaster.

extrusion of EPS files. As luck would have it, I've already tested the process with both Photoshop and fillustrator in an attempt to make a 3D representation of the AC masthead. As you can see the process works perfectly. The only problem I discovered was gradients or vinalgrettes which invariably caused a

software failure.

If your planned imports do contain elements which
use gradients within the ESP file, I'd suggest you ask
the client to replace them with solid colours. Then
once you have the model in Lightwave or whatever
else, you could replicate the affect of a gradient via a

texture map.

Admittedly, you may still encounter memory prob-

lems if the EPS files in question are particularly complex. If so, it's worth asking it the client could break the logotype into its component parts which could then be processed individually and re-assembled in the 3D environment.





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n general, A1200 owners must feel rather disappointed. There have which maximise the machine's potential and the few that have appeared have, in general, been sewerely crippled by the powerless 020 propessor.

The Vyper 1240 is intended to give your A1200 the boost it needs to push those 256 graphics around with ease. To do this the board features an 030 processor running at 40MHz and an optional maths co-processor or FPU with a clock speed up to 50MHz, although the board in this test was only a 28MHz.

As well as power, the Vyper also provides a battery-backed clock and calendar and the ability to add a maximum 128Mb of 32bit Fast RAM which will make your A1200 run even faster.

run even faster.

There is also an expansion connector to which you can connect an optional SCSI controller which will offer you access to the world of SCSI hard drives and CD-ROM

drives

As with all A1200 accelerators, they are a real pain to insert. Commodore, as usual, really didn't have a clue when it designed the expansion port and if you are not careful there is a chance you can actually damage the board before you've even got to use it. With the 1240 installed, and the bleeding

With the 1240 installed, and the bleeding fingers taped up, you will instantly notice a difference when you boot your A1200.

The first noticeable difference is the speed in which Workbench loads and draws itself. The 1240 actually provides software that will allow you to move your Kickstart ROM into the Fast Ram which will improve Workbench performance even further.

With an FPU installed you can access the ever-growing range of FPU software. The FPU basically performs mathematical functions in complex graphics programs many times faster than that of the in-built

If you decide to purchase the 1240 it is imperative that you also include extra Fast RAM — 4Mb minimum. Fast RAM makes a major impact on the speed of the A1200 and an 030 is really redundant without it.

The reason Fast RAM is so important is that Chip RAM is needed by the machine to perform calculations and store graphics.

Performance pays

want to peo the performance

your A1200 for basic graphic designent it may be worth your while to tak a look at the Vyper 1240. Forget the 188MHz FPU version as this is too slot to make a difference.

But if you are serious about yo graphics you would be better looking lesewhere and investing in a 50M 130 and 50MHz FPU – the A1230 Turt I for example. Whatever you choos make sure you take a large wad of car with you.



The Beachball test is designed to test the speed of the FPU. However, the true test should be with an application and not a bench test repearan



As you can see, the speed of the Vyper is fairly impressive. However, the speed is less noticeable when using something like Imagine

Snake byte

When a program is loaded it books for evailable memory in which to dump itself and if there is no Fast RAM on board it will try and squeeze itself into Chip. The obvious affect of this is that there is less room to perform calculations and store graphics, thus slowing the machine down.

the machine down.

The Vyper, unlike other boards I could mention, actually uses industry-standard SIMMs (Single In-Line Memory Module) which means you aren't restricted to a certain manufacturer's design.

This allows you to increase the Vyper's Fast memory to 128Mb easily, and without having to go directly to specific SIMM manufacturers.

BENEFITIAL

As far as performance increase in software is concerned, the Vyper is a major ally. Ideally, the A1200 needs a 50MHz 030 but the 40MHz will just be enough for most

Rendering graphics via VistaPro or imagine is slightly enhanced. Not only have you the added advantage of a reasonably fast processor but also the inclusion of an FPU which speeds up graphic creation although, once again, it is a 50Mtz. FPU that is required to make a dramatic difference.

However, it is not only serious software that can benefit. I know I have used Tomado AGA as an example before, but it is the only AGA game that really pushes the A1200 beyond its basic limits. With the Vyper installed Tornado is slightly smoother, but not enough to make a real difference.

So what is the bottom line here? Well, as far as design is concerned the Vyper 1240 is neat, compact and very sturdy. The real problems arise with the actual performance of the board. Although the 030 40MHz and

Even more power for your A1200. But with so many other accelerators out

there can the Uyper 1240 offer anything

new? Steve White finds out....

general speed of most software, it is still not enough.

The minimum requirement for an A1200 is really a 50MHz 030 and a 50MHz FPU. It

is really a sowner 200 and a sowner EPO. It is amazing how much power is really needed in order to control and manipulate 256 colour graphics, although prices for such boards come around the £650 mark, putting them out of most user's price range.

However, at 8429 for the 030 40MHz and 40MHz FPU. the Vyper is still somewhat expensive – almost twice the price of a new A1200, allthough this has been the pricing strategy of all A1200 accelerator distributors to date.

The bottom line

Product: Vyper 1240 Supplier: Power Computing Tel: 0234 273000 Price: 40MHz 030, 4Mb FAST, 28MHz FPU £369 Price: 40MHz 030, 4Mb FAST, 40MHz FPU £429



Yet another mixed bag of computer unrries cames under the surgeon's knife in time for a speedy recovery

Illiced for sound?

My set up is an A1200, with 4Mb Fast Ram and an 030 accelerator. Although performance-wise seem to corrupt my sound chips.

right channels sound, distorted. When I How can it be that the addition of an accelerator can affect the Amiga's helpful. S Reece. Bournemouth



with regards to the sound. I really can't understand why this happens. It could possibly be a fault with the A1200 but then it could just as easily be a problem with accelerators. My only advice at this point would be to contact the manufactur-

advice. If anyone out there has a solution to this problem, myself and several let us know.

Illhich keuman?

2.1. The problem is installing the keymap. I have all the files correct

I do?

but as soon as I load up Input I get a request for volume Keymaps This does not exist and when I cancel it simply loads up the American one. What can

I've never come across this

one before. There should be a

directory in your Devs drawers

J Green, Norfolk



seablosse with installing keymans especially on the A500+ and A600

called Keymaps which in turn holds all your keymap files. The keymaps themselves should be on the Extras disk and you are required to

install one when you boot your Workbench, which I presume you have already done. The only thing I can suggest you try is to load up Ed with the startupsequence. Open the Shell and type in the following:

When the startup-sequence has loaded make a blank line below IPrefs and type in:

Assign Keymaps: sys:dess/keymaps

Save this down by pressing Esc then x and then the Return key. When you have done this get your Extras disk and copy the GB keymap from it into your

Devs:Keymaps drawer on your Workbench disk. If Input is looking for Keymaps it will be directed to sys:devs/keymaps by the assign you made and should find the keymap file GB.

If this doesn't work it would be useful if you could send me a duplicate copy of your Workbench disk so that I can take a closer look at it.

Protext solution

In response to V. Storey, Norfolk, November 94, you do not say what set-up is being used, but when I upgraded from my Amiga 1500 to the 4000/30 I had a similar problem with Protext - it would run from its own disk but not from Workbench 3 (and therefore would not run from my hard

drive). The machine would crash leaving a message on the screen saying Falled to open window 1265 x 256. The way I finally got Protext to work was

to conv my original program disk, boot from the copy and then alter the configuration file.

- 1. Run from copy
- 2. Go to Edit Config
- 3. Go to Main Configuration Menu 4. Go to Display Options
- 5. Change Screen Mode to NEW SCREEN / STANDARD DISPLAY
- 6. Save New Configuration to Floppy 7. Quit

Protext should now load from your own Workbench. If this is the case re-install it to your hard drive. S N Semley, S. Yorks

Thanks very much for your help - I hope it works.

Faulty supply

In response to P. Mense's hard drive problem (Dec issue) I too had exactly the same problem you described and suspected the power supply as the cause of this extremely annoying

I horrowed a power supply from a friend which confirmed my suspicions that it was my supply that was causing the problems. One quick phone call to Wang and two days later it was replaced with a new unit which has worked perfectly ever since. Hope this helps.

what ACAS is really all about.

I feel rather redundant here. Thanks ever so much for your help - this is

Re uery afraid

I have owned an A1200 for approximately six months and am very pleased with it. I recently decided it was time to upgrade to a hard drive, so I purchased a 120Mb IDE hard

The drive has changed my life and has proved indispensable. Unfortunately, it now looks like I may have knackered the whole thing. To maximise the storage space of



my hard drive?

crunched data

You got problems too? Then drop a line to Amiga Computing Advice Service Europa House, Addinaton Park Macclesfield SK10 MIP and we'll mout heaven and earth to help in these columns. But sorru, we cannot reply personally, so save those SR5

my hard drive I purchased DiskExpander and installed it without any problems. In fact, it did exactly what if promised and literally doubled the capacity of my hard drive.

bled the capacity of my hard drive.

The problem now is that the hard drive won't boot and comes up with a message in a window saying cha unknown command. Have you any suppostions before I reformat

D Gooden, Brighton



If another program installs a command before DiskExpander's commands the whole process will fall. What you need to do is to copy your original startupsequence on your Workbench disk over the previous one. You will then need to run DiskExpander from disk and re-install it to your partitions.

If this works I would advise you create a salvage disk that will copy a duplicate of your startup-sequence with DiskExpander commands, so that if this problem happens again all you need to do is copy that startup-sequence on the salvage disk across or

Alias mystery

When I first bought my A1200 I steered well away from the Shell, concentrating my efforts more on the workings of Workbench.

Since that time I have become proficient with Workbench and have now turned my attention to the Shell, realising that it is vitally important for certain functions.

I read somewhere shoult Aliases but have little

idea how they work. As I understand it, they allow you to assign keyboard shortcuts to certain DOS commands.

I have scoured my C directory but cannot find any allian commands and where the command in the command in

any Alias command and when I try and run Alias from the Shell I get a message saying Clear and XCopy, with some strange symbols to the right. How do I get these Aliases to work?

It's good to see that you are paying

R Quinn, Belfast

serious attention to the Shell as it can prove a life saver at times. I think you have misunderstood the Alias command. You Icon borders

.

I am trying to create my own Workbench icons so that I can write a package

similar to MagicWB. Similar that is in function, not in design.

However, IconEdit very often leaves my icons with a huge border around them.

the same size it would appear as the IconEdit window.

It doesn't happen all the time but often enough to prove annoying. Is there any particular reason why LoonEdit is doing to this to my loons? I have read the Workbench manuals but they don't seem to mention this problem at all.

J Torves, Cambridge

The first thing you have to realise is that IconEdit is pretty naff. With Workbench 3 this ageing program should have been seriously upgraded but Commodore cocked if up – again.

I was once told that selecting the auto-to

My only advice is to get yourself a new icon editor. Iconian is one we featured on a previous CoverDisk and for a small registration fee the author will send a complete, registered version. Check out back issues for more details.

IconEdit should have been majorly upgraded with Workbench 3.0 but is still severely limited and bugged

won't find it in the C directory as it is not a command as such. Also, Aliases cannot assign keyboard short-cuts but rather command short-cuts. I'll give you an example that will allow you to assign q to endcil. Type in the following in the Shell:

completely

ed sishell-start

This will load up the Shell-startup file that is run every time Shell is run. This file also contains all Alias commands. Create a new line below the XCopy Alias and then type in the following:

attas o eno

Press Esc, then x and finally return. This will save down your new alias and return control to the Shell.

Close down the Shell and then run it again. You need to do this so that Shell can load in your Shell-startup file. Now type q and then



DOS commands in the Shell
press return. The Shell should close down.

This is because it checks its Shell-startup file for q and when it finds it it looks at the linked DOS command endcli. It then runs this command and appropriately closes down the Shell as endcli would.

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On the surface it looks like tun's in store, but when you see what the buildings are called things start to look daunting.

onsidering it was designed primarily as a games console, the dearth of educational titles for the CD32 is hardly surprising. Thanks to Lascelle, however, parents can now introduce learning into their kid's normal diet of arcade action. Word Construction Set teaches word

recognition and vocabulary skills. Aimed at five to 13 year olds, Lascelle also claims it's. an ideal aid for remedial reading and ESL work

The method of learning allows children to recognise the building bricks of words. sounded by one of the five narrators. This combination of visual and aural aids should

provide an effective support to classroom Subjects covered include Greek and Latin bases, compounds, vowels, prefixes and consanants. There's also homophones and 90 word endings using plural, verbal and other stems

The main control screen represents each topic area as a building on a picturesque map, similar to those found in SuperMario games. To choose a subject, simply move the pointer to the relevant place and click.

Glossaru

ESL:English as a Second Language Diphthong: A mono-syllabic speech sound in which the vowel sound changes. e.g. Coin, loud and side.

Phoneme: A unit of sound that distinguishes one from another, e.g. 'p' in pad-

Homophone: A word having the same sound as another but different meaning. Digraph: A group of two letters representing one sound, e.a "Ph".

Pretty though the castles and futuristic towers are, the titles that accompany them may be off putting. The "homophone" placard is unlikely to fill the average seven year old with much enthusiasm

Despite the range of subjects available. all the exercises follow a standard pattern. The student aims to construct a building begin the game

During the exercise, they must construct words from the sound building blocks. A correct answer is rewarded by a piece of the building being lowered by crane into the structure

INTEREST

If the child gets an exercise wrong a little girl's voice will say something like "nearly" or "try again" and they can continue experimenting until they are successful.

Overall, the CD could be a very useful teaching tool for younger children. The question that now remains is whether it is entertaining enough to maintain interest.

A more important element is the quality of the speech sounds. Half expecting the American synthetic talk you used to get with a Texas Instrument's Speak and Spell, it was a relief to hear normal human speech.



The importance of hearing and experimenting with language cannot be overrated in education, and if a student perseveres with this CD, it can only benefit language skills. Unfortunately, the hardest battle is making kids think they're having fun rather than just doing extra homework Though this CD will initially hold some attraction, not enough attention has been paid to

making assignments varied and enjoyable, leaving me with the suspicion that it would be quickly neglected.

Bearing in mind that many ESL and Remedial Reading students are adults. Lascelle's claim to cater for this area is rather cheeky. Word Construction Set is obviously designed for children. Since there's not a lot of choice available as far as education is concerned on the CD32, concerned parents may find this worthy of consideration. But then if you're that concerned, it's best to buy a normal Amiga rather than a games console.

Get the answer right and part of the building will be constructed. Exciting or what ?

he builders

Careth Lofthouse assesses Lascelle's -Illard Construction Spt to spp if it's well made enough to do the job.

> The lack of visual variety reflects the main problem with Word Construction Set - the fact is, there's only one game to play. Whether your child is learning about prefixes or vowels, the aim is always to keep adding pieces to the building until it is completeri

Unlike some education packages, there is virtually no animation or actual gameplay, nor are there cartoon characters to add appeal. To have your efforts rewarded with a block of concrete is about as exciting as getting a tick - it's not much of an



The battam line

Product: Word Construction Set Price: £29.95

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ith early home computers, basic graphics meant that for most people a monitor was an unnecessary luxury. The fact was that a TV was perfectly adequate for playing Jet Pack or Chuckle Egy.

As technology has become more sophisticated, the requirements for high quality visual displays have far outstripped the capabilities of a normal TV. And if, for example, you have an AGA machine, without a decent morilor you're not doing your Arriga any justice at all.

The monitors included in the round up have been tested in a variety of resolution modes to assess their suitability for a range of tasks. All products were checked with Double Pal HiRes No Flicker and Productivity modes.

They have also been tested in low resolution modes, an important requirement if you want to use the monitor with most games.

So how do they work ?

The RGB colour monitor works very similarly to a television. Three electron guns fire red, green and blue beams at a phosphorescent screen which then emits a visible light. By combining the three primary colours of these beams, any colour can be achieved.

any ocour can be accessed.

Your picture is formed in the following way. A dot swiftly scans across the screen developing the picture line after line, varying in intensity and colour as it goes. The phospher screen continues to glow for a short time after the dot has moved on, giving the fillusion of a complete screen as opposed to a moving dot.

Having reached the bottom the dot starts again at the top, scanning the screen at a rate of approximately 60 times a second.





Jargon Buster

RGB: Simply an abbreviation for red, green and blue, the primary colours which can be mixed to make any other colour in the monitors picture.

AGA: Advanced Graphics Architecture. These are the most advanced Commodore chips which handle graphics and modes.

Multiscan/multisync: Such a monitor is able to work with many different vertical and horizontal refresh rates, as it will scan within their frequency limits until they are able to lock on to a signal.

Dual/tri/quadsyncs: Monitors similar to multisyncs but with preset frequencies with which they can work.

Composite Video: A signal for picture transfer often used by video players and cameras.

Refresh Rate: The time it takes for the picture to be completely updated.

PAL: The television standard for the UK and Amiga computers.

NTSC: This stands for North American Television Standards Council, and as the name suggests it is the American television standard.

CRT: The Cathode Ray Tube consists of a sealed glass chamber containing a vacuum. It creates the cathode ray, an accelerated stream of electrons which strike a phospher screen to create your picture.



Hyundai HL 4860

Supplier: Lasbroke Computing Tel: 0772 203166

Another one for DTP purposes rather than games, this is a multiscan monitor with a range of 30-60 Hz. This makes it ideal for using modes such as H-res No Flicker. It has a good range of controls with which to make adjustments, although the front-mounted facia is rather fiddly. The controls seemed insubstantial and left me.

with some doubts as to their durability.

The Hyundal has the standard 14 int screen and would require external speakers for sound. It includes a Power Management facility and meets MPRII standards, but on the other hand it doesn't have the ports which are avaisable on the classic Philips. Picture quality seemed exceptionally high, deceiving us into thinking that the

monitor had a lower dot pitch than .28.
Its range of uses may not be as wide as is possible with the Microvitec monitors, but if you're not interested in games and your budget is limited, this one could well be your best bet.



Amiga Computing CHRISTMAS 1994

Philips (M8833/II

Price: £229 Supplier: First Computers Tel: 0532 319444.

An old classic, this monitor has been a favourite with Amiga enthusiasts for many years. This isn't surprising, because despite its age it might still be the best bet for some users.

Certainly it has everything the gameplayer could ask for. Its 14in screen is perfectly adequate, it produces a high quality picture, and it has excellent stereo sound built in for a change.

Its rugged build quality has been proven by years of use in the Amiga proven griften, a fough test by any standards. The controls are basic but fine for most purposes, and they're front mounted for ease of use.

STRANGENESS The Philips rests on its base rather

than a stand and has an odd curvacious and tilted appearance. Despite its strangeness, however, the upwards tilt of the screen is easy on the neck and goes some way to making up for the lack of a swivel stand.

It's pretty well provided for with ports as well, especially since it includes a composite connection for use with video output. The back is also the site of less commonly needed adjustors such as V-hold.

Having said this, its age limits it as it can't use the new AGA screen modes. It will work with an A1200 but it can't manage Hi-res No Flicker or Productivity.

Nevertheless, its horses for courses and this remains a good all in product for the less serious user. There's one more quibble though: Considering the VDUs age, isn't it about time the price began to fall?



Price: £667 RRP Supplier: Livama Tel: 0438 745482

Idek are not a particularly well known name in the Britain, but if you're a serious user that needs better than usual display capabilities, it's one of the best firms you can turn to.

tirms you can turn to.

This 17 incher is a big, hefty hunk of monitor, so it's going to take up a large chunk of desk space. In fact, it's too large to be aesthetically pleasing in my opinion, although it is otherwise perfectly smart.

It boasts an FST screen, plus an anti-static and reflection coating that improves the overall clarity of the picture. There are no internal speakers but then it obviously wasn't

As technology

has become

more sophisticated, the

remirements for high quality

uisual disolaus have far out-

stripped the capabilities of a

normal Til

designed with games and sound samples in mind.

Idek has avoided using banks of fiddly control buttons in favour of a menu system that shows up on the little LCD screen mounted on the front. In fact, there are only three buttons to meas with, a blessing in comparison to some other expensive VDUs. This innovation by no means reduces the number of controls available, since there is

This innovation by no means reduces the number of controls available, since there is an impressive range of adjustments available. In addition to the usual options, the user can after Trapezoid (picture slant), Pin-cushioning and Raster Rotation (tilt), a function which centres automatically. A Power Management System is incorporated to save electricity and minimize heat

generation. After a certain time of non-usage, the monitor will automatically reduce power consumption, a feature which is fully adjustable.

The Vision Master has a scan range of 23.5 to 86Hz, a band which is impressively

wide. Game-playing is out since it won't sync down to 15Hz, but Hi-res No Flicker and Productivity look good enough to meet high professional standards.

With a higher than average dot pitch (.26) and Hitachi's best quality tube, the picture

with a hightin flant are legic of the control of th



Modes on the Amiga like Hi-res Interfaced create a picture of very high definition. The chief advantage of such a mode is the increase in working space on the screen, because your workbench icons are more compact while they retain full bixed detail.

uses such as DTP, this is highly recommended.

In fact the Amiga loons were designed to look like they do in this mode, which is ironic since many users are unable to

use it.

The term interlace is concerned with the way the monitor picture is refreshed. In this screen mode the cycle is broken into two fields, each lasting 1/80 of a concert thus a full refresh lasts 1/30 of a

The monitor displays odd-numbered scan lines in the first field and then even numbered lines in the second field. The

purpose of the interlaced scan is to place some new information in all areas of the screen, refreshing the picture at a quicker rate than scanning across the lines

Unfortunately, though interlace would be a good mode to work in, Amiga owners can only use it in conjunction with some licker-trying bartware.

The Amiga 3000 actually has a flicker fixer built in, and they can also be bought for A1500s and A2000s. Some monitors

To make things more complicated, a flicker fixer can't be added to the A4000 or the A1200. On the other hand, they possess new screen modes like Hi-Res No Flicker which creates a similar picture to an interface mode without the



Amiga Computing CHRISTMAS 1994

Microvitec Cubscan 1440

Price: £489 Supplier: Microvited Tel: 0244 377566.

An older and more expensive alternative to the 1438, this has one major advantage. A multi-sync monitor covering the same frequencies as the cheaper model, this VDU has a DMS system.

DMS stands for Digital Memory Sizing, a function which should automatically fit the picture to the size of the screen, thus avoiding the unsightly margins that undermined the appeal of the 1438. Once you could

At a glance

Product	Microvitec 1438	Microvited 1440	Hyundai 4860	Idek MF 8617A	Phillips Pro 2000	
Dot Pitch	.28	.28	.28	.26	.39	N/A.
Display	7	8	8	9	7	7
Features	6	8	9	9	9	8
Value	8	7	8	8	9	8
Drice	6200	0200	0000	CEOF ALL	0004.05	0000 00

pick one of these up for £400, and in our view it merited the extra expense. Unfortunately, its new price will make it less affordable.

Philips Pro 2000

Price: £239 Supplier: Harwood

Tel: 01773 836781.

A hybrid product for those who wa

have their cake and eat it, the Philip 2000 is a TV and a Monitor in one wit a highly competitive price tag for goo measure.

The danger with this sort of package

is that the combination of the two fur tions within one unit will compromi quality. It's a pleasant surprise ther fore to find that this unit works well the

both purposes.

People seemed to be divided as far as its appearance is concerned, but it your'e bothered about your monitor



colour matching the Amiga then yo won't like the fact that it's black. The 17 in screen is a ver respectable size for a bedroom TV an its extra large size makes games the bit more engaging. As a monitor it has good picture quality and boasts a 200 character resolution – by no mean

Being a TV, it obviously includes ternal speakers, saving extrapense in the audio department. I to boasts a flat screen, an uncom on feature on dedicated monitors o inflat rice.

Remote control, FastText Telete: and 60 channels are features making capable as a telly too. If your looking for this type of hybrid, the 2000 represents excellent value without compremising too much on quality.

Microuiter 1438

Price: £299 Supplier: ZCL

The problem with some Hi-res monitors is that they are not flexible enough to suit everybody's needs. A user may want to use their monitor with games, for example, but they will be barred from doing so if their monitor won't support a low resolution.

The best solution to this dilemma is a Multiscan monitor. These support a range of screen modes and will automatically sync to the signal put out by your Amiga, providing the screen mode is within the monitor's k1tz range.

the screen mode is within the monitor's HHz range.

Designed with simple but attractive styling, it has a sturdy build quality that you would hope for at 1500. The control cogs are thick enough so that adjusting the picture isn't too

fiddly a process, and the fact that they are front mounted makes for convenience. The unit swivels on its base vertically as well as horizontally. This allows the user to find a comfortable angle for viewing, but the base at the same time seems secure

enough to avoid any fear of the monitor toppling off your desk station.

With the .28 dot pitch that has become fairly standard for monitors these days, the

Microsites ordered a welf-toffeed pitch to go its 14 in section.

Microvitec produces a well-defined picture on its 14in screen.

The monitor meets MRPII standards, which set a limit on low frequency emissions of radiation. Such radiation has been blamed as a factor causing miscarriages for pregnant

women, and though no link between VDU usage and such dangers has ever been proven, it's good to see manufacturers taking precautionary measures.

The multiscan's frequency range of 15-40 kHz means that the monitor can work with the most popularly used modes like Hi-Res No Flicker and Productivity, but it can sync down to 15kHz allowing those lores games to be played as well.

Laced modes are unusable unless your machine has a flicker fixer. This means that Hi-res Interlaced is unusable on A4000 or A1200, but this is not a fault that Microvitec can be blamed for.

What does create a big problem is that there is no way of adjusting the overscan so that the pic-

ture fits your screen size. This means that you are left with a messy looking alignment, with black margins taking up part of your screen space.

The omission of a control for adjusting the overscan has obviously been made with price considerations in mind, but when tested with our A4000 it realby did undermine an otherwise good display.

This basic approach has

also led to a lack of ports such as a composite video connection, a feature that is useful for any home video work. Still, there's not much competition if you want a multiscan that will play games and manage the new AGA screen modes at this price.



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Final Writer release 3 has been given a slight face list and a range of new and improved options



Helma the shanes facili. tv. all kinds of boxes and frames can your DTP pre-

The eternal struggle of the unrd nrarpssing giants _ continues with the release _ of Final Illriter uprsion 7 -Adam Phillips reviews —

Writer's revenge

ven Sir John Harvey Jones would be proud of the competitiveness between Wordworth and Final Writer, the two high ranking word processors that even have PC owners looking over their shoulders from the cosy screens of AmiPro.

The time for confrontation has come yet again, with the update of Final Writer appearing only a few weeks before Wordworth 3.1 rolls onto the scene. The general consensus has always been that Final Writer is ideal for DTP-style documents but lacks the word

Wordworth 3, on the other hand, lacks the style tags and other assorted goodies that makes Final Writer such a success in the DTP department. The gap has begun to close

up with each subsequent release of Wordworth Now, with the latest version of Final Writer, can one of the combatees bridge both gaps and produce a winning and enduring

Numerous new features have been added to meet Wordworth 3 head-on in the wordprocessing stakes. One of the most enthusiastically received facilities on Wordworth was

the drag and drop text editing.

This feature allows the user, without having to fiddle about with menus, to simply highlight the area to be moved and then, while keeping the mouse button pressed down, simply move the text to the new position. The same system has now been implemented in Final Writer v3, which speeds up text editing no end and is an extremely useful device.

Type and Spell is a new facility that enables the user to type away while the computer keeps a check on the spelling. Making a slip-up results in the screen flashing briefly to alert you that a mistake has been made. While not actively changing the inaccuracy

automatically like Wordworth 3, Final Writer's method is sufficient enough to cope with the common occurrence that most mistakes are made out of careless typing rather than through a lack of spelling expertise. Text selection has also been given a boost

with the ability to select a word, sentence and paragraph with a series of button clicks

There have been numerous changes to the handling of master pages, headers, footers and page numbering, with the accent on user friendliness. Master pages can now be shown on the first page only, on all pages or on all except the first page.

To create headers and footers simply requires the click of a mouse button to bring up a comprehensive menu. Text for left, centre and right alignment is entered and then automatically placed in the relevant positions at the top or bottom of the screen

STRENGTHS Final Writer's main strengths - desk top

publishing and speed - are still better than Wordworth 3 on AGA machines. A polygon creator has been added to the list of comprehensive drawing tools and is ideal for creating diamonds, stars and octagons. The special shape creator allows the user

to take a basic shape such as an oval and then manipulate it by changing its control points. The Snap To feature has also been improved to make alignment procedures more accurate

Unfortunately, some of the criticisms made about the last release have not been addressed yet, such as the Show Codes option - vital for any reformatting of alien

documents - or the highly useful Bookmark feature which has yet to make an annear

This may seem like harsh criticism for such a high calibre package, but it is frustrating to see that Final Writer's true potential has yet to be exploited to the full and, at present, any purchaser's decision will still have to be based on what functions they want to perform on their machine - either DTP or word-processing - because there still isn't a near-perfect title for all needs.

is that Wordworth 3.1 is primed for release and last time round, Wordworth 3's DTP powers were given a threatening boost. However, its own past criticisms. For SoftWood's sake. some may hope that Digita hasn't. ES



The bottom line Product: Final Writer release 3

Supplier: SoftWood Products Europe, New Street, Alfreton, DE55 7BP Price: £74.95

Ease of use Implementation Value for money Overall

complaint Page numbering is easy to use. A menu allows the placing of numbers either left, right or centre at the top or bottom of the page. A glitch in the option though leads to a small bur rustrating norbidem.

placed at the bottom centre of each sheet is simple in itself Placing the number, let's say, to the left at the bottom, though produces two page numbers – one centre and one on the lef for no apparent reason. This is hardly the most detrimenta of bugs, but is annoying all the same.

Reta

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Secrets of the cabinet

o ho ho, as a good friend once said. Yes Christmas is nearly upon us and although we already have all we want in Blitz, we still wait with baited breath for the day when we can unwrap all those knitted jumpers from Granny and new shoes from our parents.

But seriously, in last month's article I took you through the motions of setting up a basic interface for entering records of names. This month we will put in the load and save routings.

I'll start with saving first because dictating the way in which you save a file is, in its self. dictating the way you load it up again. With me so far? It's a simple rule to grasp. Let's say, for example, you save a set of

coordinates to a file in the order X, Y, Z. It would seem silly to load them back again in the order Y, X, Z. There are two basic rules I try to stick to when saving info to a file The first rule affects the way we save numbers to a file which is described in the box

labelled 'MkiS and Cvi'. The other rule affects the way we save strings to a file and is more relevant now as we are only dealing with strings in our program. The main problem with strings is that in their most basic form they are a very loose

subject. This is because their lengths can change from one minute to the next and can sometimes be difficult to keep track of. Normally this wouldn't matter when writing programs in Blitz as all we have to do is call them by their variable names. But, when Following on from last month.

of file accessing in Alita

saving can be efficient.

Once we have decided on this there are

unique information which is not repeated hundreds of times from file to file. Consequently, we will use Random Access

record is likely to be. Strings need special attention - they cannot just be stored in a file straight from our array, because our arr has no limit on the amount of text each

record holds. As mentioned above this is very important.

especially for Random Access files, so we need to have a few extra strings which are Smitart in size This is done via the MaxLen command.

and when used with Random Access files it sets the length of each record in the file, thus allowing us to jump to any record in the file.

In our example program from last month you will see that we have six strings (0-5) for each record in our array. Thus we need six limited strings to use as temporary storage space for our Random Access filing. These are defined as follows:



As you might have noticed, the lengths corre spond with the maximum characters allowed in each GTString. After this, all we need to do is set up our fields for the file whenever we access it. This is done via the Fields command. For our example, the syntax to do this would be as follows:

If Writefile(0, filename\$) +True

Notice we use an extra field to hold the total records to use when loading back in again:

Fields 0, tep85, tep15, tep25, tep35, tep45, tep55, number_of_records

Then our saving bit:

for temp.b=1 to number_of_records Store the details in temp strings ready for transfer

tmo05=records\$(temp.0) : tmo15=records\$(temp."

Mirhael Milne onens un the world -

doing file access we need to make sure we are clear about how many characters each record should have so that our loading and

two paths we can take to achieve an efficient load and save program. We can use a "Sequential" file type or a "Random Access" file type. Sequential files are files whose contents are written in order from start to end. Random access files are also written in order but because of the method in which these files are set up, you can access any file at any given point in the file

Random Access is ideal for databases and the like: Sequential files are ideal for storing

filing as it is ideally suited for our needs. Before we can use a Random Access file routine we need to know what our information is going to consist of and how long each

Mki\$ and (ui

POSTCODE

saving numbers to a file we want to make sure that what we write to the file as we try to lead them up again.

we try to lead them up again.

It is not a file of the saving and the savin

Here is our new

looking interface

with load and save



The ASL File Request A programmers best

Transfer info from temp strings to file:



The Fields command sets up the order for the saving of each record. The only thing that we haven't done is to find out what the user wishes to call our save file. We do this by using a file requester. I choose to use the ASLFileRequester which requires the path and filename to be two strings of 192 characters in lenoth.

Again we use the MaxLen function to do this. (If you are using an A500 then use the standard FileRequest which requires the path to be 64 characters and the filename to be 128 characters).

On top of this you will need a string to hold the full path name for the file, so I normally set up another string with a MaxLen equal to the path and file MaxLens added together. Here is what it all looks like:

Rester filenees=192+192
and the file requester is used as follows:

filenees*ASLFileRequests*Choose a SAME file*,pask,fils)

If you look at the full listing in the box you will see that putting in extra code after the Hauing problems?



you are experiencing problems with litz then please write to me, Michael line, at: 39 The Drive, Earley, Reading, erkshire RG6 1EG. All questions will a answered personally.

basic program is done is quite simple. All the new strings are defined at the beginning as well as the new gadgets. Then we put in our Gosub-for saving and then our

put in our Gosub-for saving and then our sub-routine itself. Loading is pretty much the same as saving except that now we are loading in

a file. Therefore we check first to make sure the file exists before trying to load it in.

Then we set up our fields as before,

read in the first record to find out the total records held, then go from record two to the last records, reading each record from the file to the temp strings and then putting them in the records array. Painless isn't it?

Try removing one and you will see what I mean.

My mistake!

Sorry, sorry and sorry. I failed to make my pro-. 1979: filename\$=ASLFileRequest\$("Choose SAVE gram coherant in the last issue and most of you file".005.f(5) probably realised that I failed to keep my array . 166: 3) If Exists(filename\$) Then KillFile filename\$ If WriteFile(D.filename\$)pTrue number_of_records+1 name consistant throughout the program. If you current_record=number_of_records have had problems compiling the last program then here is the whole program (complete) with all 0,tep0\$,tep1\$,tep2\$,tep3\$,tep4\$,tep5\$,number_of_records s,tmpcs,tmpcs,tmpcs,tmpcs,tmpcs,tmctots
for temp.b=1 to number_of_records
tmpOS=recordsS(temp,E) : tmpIS=recordsS(temp,E)
tmaTErrecordsS(temp,E) : tmaSS=recordsS(temp,E) of this issues updates as well teniSprecords\$(temp.4) : teniSprecords\$(temp.5) W85tartUp Put 0.temp-1 number_of_records.w=0 records\$(current_record,temp-. load: 1)=67GetString(1,temp) LOAD", pa\$, f(\$) If ReadFile(D.filename\$)=True Maxien tep55+9 O, tap65, tap15, tap25, tap35, tap45, tap55, sumber_of_records nexts records\$(1,0)=tep0\$: records\$(1,1)=tep1\$ MaxLen filename\$=192+192 records\$(1,2)=tep2\$: records\$(1,3)=tep3\$ STString 1,1,80,5,248,12,"MAME",1,30 STString 1,2,80,19,248,12,"ADDRESS",1,30 records\$(1,4)=tsp4\$: records\$(1,5)=tsp5\$ For temp.bm2 to number_of_records carrest_record-1 records\$(temp,0)=tmp0\$: records\$(temp,1)=tmp1\$ records\$(temp,2)=tmp2\$: records\$(temp,3)=tmp3\$ GTString 1,5,80,80,81,80,12,"7,1,30 GTString 1,6,80,81,86,12,"POSTCOBE",1,9 GTButton 1,7,340,5,64,12,"<<&B3>>",16 GTButton 1,9,340,19,72,12,"<<@B51>>",16 records\$(temp,4)=tmp4\$: records\$(temp,5)=tmp5\$ While Event-0540 : Wait : Wend 67Button 1,10,340,34,104,12,"<<PRESIDES>",16
67Button 1,11,340,49,72,12,"<<L043>",16
67Button 1,12,340,44,72,12,"<<6881>",16
51zetimits 350,15,330,114 Wait 20 For teep.b=1 To 6 GTSetString 1,temp," If WaitEvent=\$200 Then ad.b=1 Else FlushEvents Select GadgetHit In case you are wondering why their are several Sosub clear_gads For temp.b=1 To 6 because otherwise the program gets stuck into a previous Else BeepScreen 0 STSetString 1, temp, records%(current_record, tempcontinuous loop with the gadget that was last hit.

Gosub _load Case 12



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he setting up and use of the cornsole device filts the bulk of the letchy descussions this month. This entity acts like a traditional "control-string oriented. VDU terminal." It all sounds very involved, but the basic idea is that by linking the console device to our program's window well not only be able to get text printed in the window but will be able to send strings of control characters to specify two positioning and so on. Before locking and how the console device is

Before looking at how the console device is controlled there are a few general ideas that need to be aired concerning Exec devices. One of the many purposes of the Exec device arrangements is to provide a standardised from of device by (Inputs/butput) which makes the operations as uniform and as device independent as possible, given the differing physical and electronic characteristics of the various bits of hardware involved.

Device commands fall into two categories. Firstly, there are the standard commands, i.e. those which are designated as being common to all devices. Secondly come the com-

mands which are device-specific.
All device I/O requests are handled by setting up a data block which contains information relative to the request. A number of
devices, including the console device, use an
expanded request structure called a "stan-

dard" request or, more properly, an IOStdReq structure.

Most of the fields in this structure are of limited interest for our purposes, so I'll just mention the points which are relevant to the pro-

gram we're developing. FUNCTIONS

Firstly the is_Command field must be set to one of the allowable device commands. Neither this, nor the ReplyPort which the device uses to communicate with your program, are changed by the servicing of an I/O request, so this means that in our case, since only write operations will be done, we can set up the command field immediately the I/O request block has been allocated.

There are, inclined that you will be the command of the comma

functions responsible for interfacing I/O requests and these operate independently of the particular device in question. Essentially, they deal with the request block as a whole and ignore the contents of the block.

Exec devices do, in fact, respond to a variety of commands for reading, writing, resetting the device and so on. The only one I'll be using is the CMD_WRITE command which tries to write a number of bytes (specified in the request block's io_Length field) from a

Text files displayed at last - thanks to the Amiga's console device

last - thanks device

Under your nun devic

specified data buffer. The number of bytes actually written will be returned in the

io_Actual field.

As mentioned, Exec I/O is always performed using I/O request blocks. Before I/O can be successfully achieved however, the blocks must be properly initialised (by both

the system and the user).

Providing this has been done, the device can be opened and this is done in much the same way as one would open a library. You'll find details of the OpenDevice() system function and the corresponding CloseDevice() among this month's function boxouts. During the time that the device is open.

commands may be executed. Using the synchronous DolOJ function to perform a write operation, for instance, would involve setting the lo_Command field to CMD_WRITE. specifying the amount of data to be written by loading an appropriate value in the request block's lo_Length field, and then using

DolO().

The usual approach is to load an address register with the base of the I/O request structure and then use indirect addressing with displacement to set up the various fields like

moves.l io_request_0,a1

ddress

#IMD_WRITE,io_(commendial)

trually set up during initialisation

ove.l #7,io_Data(al)

ove.l #5,io_Data(al)

ove.l #5,io_Data(al)

ove.l #6,io_Data(al)

Wo request

The basic ideas of opening a device, using it via a combined set of standard and non-standard commands, and closing it when you've finished using it, is simple enough, in practice, the issues are complicated by the fact that a fair amount of initialisation has to be done, and that includes setting up a reply port so that the device has somewhere to deliver its

For a long time, four functions have been provided in the amiga.lib library to simplify these tasks - CreatePort() and DeletePort()

This month Paul Overaa gets to grips with the job of displaying text files in Intuition windows

create and delete message ports, while CreateExtlO() and DeleteExtlO() create and delete extended lORequest structures.

Nowadays equivalent functions are available from within the Exec library and it is these alternative functions, called CreateMsgPort(). DeleteMsgPort(). CreateIORequest() and DeleteIORequest() that I've chosen to use. Here are a couple of

CALLSTS CreateRapPort, Abstractage
moe.1 dl, L_mart_name returned pointer
scent #10113_311_60 size of sate if
structure
mores.1 io_port_pulprest for messages
CALLSTS CreateRequest_p. Most access
more.1 dl, L_mart_name asser returned
makes.

fragments from this month's code:

Of course the difficult thing is tying up all the fragments into a general scheme for device usage. The operations we've got to perform fall into this sort of general pattern:

Create a reply port for the device to send its messages to.

send its messages to.

2. Allocate and initialise a suitable device I/O request structure.

Open the device using the OpenDevice() function.
 Use the device for as long as required 5. If necessary, remove any outstanding.

requests (will not concern us).
6. Close the device using the CloseDevice() function.
7. Delete the I/O request structure.
8. Delete the reply port.

This is yet another of those Amiga areas

where it is important to make sure that things are done in the right order during program startup and closedown, so – as you should now know without hesitation – this means that the above list of operations are going to be coded as pairs of allocation/deallocation routines and incorporated into the error/close-down handling scheme mentioned earlier in

Listing 1 shows one pair of routines – you'll find the others in the source code on the Cover Disk.

By doing this I've been able to create a generally useful control string sub-routine that, given the address of the control string in a0, writes the appropriate string to the console flexible.

You'll see references to this routine, using some other control strings that I've defined, in the code given in Listing 1.

Detecting KeyPress events

Our main IntuiMessage event collection loop to-date has been called MenuHandler() simply because menu events were the only ones

being dealt with.

By adding an additional IDCMP_RAWKEY
flag to the program's window tag list, we tell
Intuition to start sending both menu events
and raw key press information back to the pro-

and raw key press information back to the program. In this situation the name Menuhandler() is inappropriate, so this month the routine has been renamed EventHandler() to reflect its new status! Changing the name of the routine, however,

is obviously not enough – the code has to be extended so that the incoming raw keypress information actually gets used.

The way I've done this is to extend the mes-

sage class testing to include IDCMP_RAWKEY events and call a KeyHandlerl) routine whenever such events are found. Here's the corresponding decision test fragment from the code you'll find on the cover disk:

capi.l	FIDERP_REAC	EY,63	check message
boe.s	GetMessage GerMandler		anything else w keypress data
bra.s	Getfessage		

The key handling routine itself has only two types of jobs to do. It must detect cursor up keypresses and take the appropriate actions, and do likewise with cursor down keypresses. The scheme I've used has been kept deliberably simple: If a cursor up key is sensed i chack to see if we are displaying the top line of the file. If not, we go to the bottom of the display, delete a line, move to the top of the display, selled an insert line control sequence, adjust the line counters, see these wife the pent for line.

Cursor down keypresses do a similar sort of jiggery-pokery at the bottom of the display. Again you'll find the full code on disk, and within the routine you'll see further calls from within GetMessage() and KeyHandler() code that prints lines of text from the leaded file.

from the loaded support the control of the control

because there is one last piece of the story that needs to be mentioned.

With the way that I am writing data using the console device, I have to specify the number of bytes to write in the io_Length field of the I/O request structure.

Obviously it is impractical to keep continually scanning the file from start to finish looking for particular lines. A better solution is needed and the approach I've adopted is to scan the file as soon as it has been loaded so that a list of line pointers can be built are.

To do this I actually scan the file twice, the first time counting linefeeds so that I know how many lines are in the file. After allocating memory for a suitably sized set of "line pointers" the file is accumed again—only this time the addresses of the starts of all the text lines are stored into the line pointer list.



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Penny-ninching Daue Cusick mumbles "Rah. humbug" a bit. before bringing you the nick of this month's Public Domain licenceurare and Sharpmare releases

A rummage through the healthily large PD mailten this month produred a typically diverse selection of games utilities and demos What hetter way to fill your loved one's stocking than with a few top notch low price lovelies? Think of the look on their face when they eagerly tear off the wrapping paper to uncover the latest three-quid wonder

Perhaps its not the most extravagant of seasonal gifts, but there are plenty of excellent pieces of PD knocking about and after all, it's the thought that counts, eh? I'm sure they'll understand that in these financially difficult times the latest allsinging, all-dancing, 45-bit wonder machine is a little beyond your resources. With that thought at the forefront of our minds, it's now time to take a festive walk through the snow-sprinkled streets of PDsville.

Tee To Green

Programmed by: Garry Knott Available from: Roberta Smith DTP Disk No. OS094

Seemingly, everywhere I looked this month was the golf enthusiast's godsend. Tee To Green, which must have been sent by at least five different PD libraries. It would have wormed its way into the Public Sector even if it were not of an exceptionally high calibre, simply to stop

With the sid of Tee To Green, way can record all those embarrassingly high scores for pos terity... if you've not

the seemingly endless torrent of Tee To Green dieke Thankfully though it is a fine product providing an excellent way of keeping track of all your golf scores for a selection of courses and even

offering some basic analytical functions Despite shelling out a hefty sum on oolf clubs and membership fees. I didn't find golf to be my cup of tea. This was perhaps unusual siuse the enermous popularity of the sport these days and the practically boundless devotion my (ath a har facility

Keen golfers - and he could certainly he classed as one - seem prepared to brave any weather ("it's not fair the course is closed and it's only a small hurricane") to tow a half-hundredweight of clubs around some hilly fields vainly backing at a ball which frequently seems determined to bury itself in the nearest clump of long grass. This is even more baffling, since many of golf's greatest admires actually soom to spend a good proportion of their time cursing the

Although the game may at times prove too frustrating for words (at least of the non-expletive kind). Tee To Green will bring you no such annovance.

Since telling the program the details about any given course is a simple matter of keying in the hole ners distances and stroke index numbers from your real scorecard, it's possible to have things up and running in a surprisingly short time

It is possible to view statistics such as best and worst ever rounds, best and worst scores out together hole by hole. number of birdies, eagles and so on for all time, average scores on each hole.

Normal and Stableford scoring are available and each round is stored with your handican at that time. A counte of features are disabled in the unregistered shareware version, but if you register it is possible to store loads of courses and rounds, the number being limited only by disk space. For the true golf devotee, there is no similar program which can offer so many features

AND THE STATE OF T Davement Solf Club

Hole	Yds	Par	S.I.	Score	Pts	Hole	Yds	Par	\$.1.	Score	Pt
1	366	4	2	17		18	482	4	17		
2	488	4	16	12		ш	316	4	3	100	Г
3	543	5	18	13		12	188	3	15		Г
4	192	3	12	12		13	367	4	6	100	Т
5	417	4	11	2		14	497	5	4	11/2	I
6	387	4	6	5		15	417	4	1	700	Г
7	442	5	18	12		16	215	3	14		Г
8	242	3	7	28		17	387	4	9		Г
9	302	4	8	28		18	331	4	13	Miles	Г
Out	3225	36		113		In.	3032	35			Г
	17-1				TOT	ALS	6257	71			T
		°18					Handi	сар	16		ı

Suppr Oblitoration

December of his Decid December Available from: PD Soft Disk No. 2070

Originality may not have been a consideration when this fine Pong clone was created but playability definitely was Featuring a main sprite which looks suspiciously like that in Turrican 2 complete with multi-directional oun Super Obliteration pits you against houncing asteroids. Blast them a couple of times and they split into two smaller actornide: only after four or five enlite will they finally be destroyed

Once all the asteroids have been cleared from the screen, a new screen will annear with more esteroids various niatforms to lean upon or shelter underneath and so on

As was Pong before it, Super Obliteration is one of those games that books you from the moment you start



ating insight into ancient Egypt. Tutankhamun communicate all sorts of information through an

Tutankhamun

Programmed by: Paul Thompson Available from: Central Licenceware Register

I have to admit that in my experience, a good proportion of educational software is of disappointingly low quality. Sloppily designed interfaces or poor programming often marr otherwise potentially useful software

Fortunately, that's not the case with Tutankhamun, which combines an attractive and intuitive interface with an informative and interesting collection of information. As well as details on the discovery of the infamous Egyptian king's tomb in 1922. there is a selection of fascinating material relating to many aspects of life in Egypt when it was at its height.

From an attractively designed main menu screen, it is possible to access all manner of facts and figures. While you are discovering this information through the well-written scrolling text, effective diagrams and colourful high-quality digitised pictures, you'll even be treated to an appropriately Discovery Channel-type



MONTE

GAME

Unoriginality strikes ago but if it worked for the man Brothers, it can't be all had. Obliteration is the air bad. Conteration (or worryingly addictive

playing Admittedly, there's very little variation in the gameplay but to be honest, this goes largely uppoticed in the thick of the action and when it's this enjoyable who pende variety amount?

The whole package is topped off nicely Despite the fact that when I first loaded

more about Tutankhamun, after a few min-

utes of playing around with it I was thor-

oughly engrossed. Admittedly, it's not the

sort of program that will appeal to children

of primary school age, but for the older

musical accompaniment this up I wasn't particularly eager to learn

effectively and interestingly.

by some very appealing visuals, with simple but attractive backdrops and stylish sprites. The blasting sound effects are also suitably meaty and the end result is one of the best PD games I have played in come white

tack a little earlier

Enirly bactic arcade excitement is the order of the day here, something that is earthy often lacking in today's commercial software. The graphics may be functional rather than enectacular and some of the sound effects are a little irritating, but overall Penno 2 is a decent niece of software which demands a little logical thought as well as a reasonable amount of joystick

The plentitude of levels it possesses qualit to quarantee long-term interest and it can be quite an addictive game.

reader it communicates the information Penga 2

Programmed by: Fredrik Flidberg Available from: PD Soft Diek No. 3981



Another blast from the nest in the form of Pengo, which hears a striking resemblance to 8-bit wender Penni

Another less than original, but nevertheless very enjoyable game. Pengo brought back memories of Acorn Electron cheapy Pengi. The unfortunate situation is that Pengo. who is perhaps unsurprisingly a penguin. has managed to get lost at the north pole. He has to negotiate 50 levels, all inhabited by nasties. On each level, Pengo has to arrange diamonds in lines by pushing them around the screen. He can also push blocks of ice, and by pushing them into nasties he can knock them off, making his

O Fu enhanna?

Programmed by: Eddy Carroll Available from: Scribble PD Disk No. U408

When a program mysteriously refuses to work there's no better utility to have knocking about on your hard drive than Snoopdos. It lets you know exactly what your machine is up to and it's possible to

those indispens able programs that all fill up your



Calling all PD libraries

and individuals with absolutely any proconsider worthy of review. Whether it will shareware or licencewere if it's of sufficient quality to merit coverage then stick it in a liffy had or hadded envelone and send it in with all haste. I promise I'll at least look at your work Diagon alondy label the disk, and include a cover letter supplying a description of the disk appteats and some

Dava Cueick PD submissions Amina Computing Furnna House Adlinaton Park Macclestield SK10 4NP

trace for example which missing Shraries are preventing the program's normal Spoondos 3 is an interesting little chest-

nut really. Since Spoondos tends to be running in the background, the small size of the original program was a real asset. With this rewrite the author has attempted to make the program far more powerful and user-friendly - but in doing so he might just have defeated the objective to some

The extra features include a spanking new Granhical Hear Interface a scrollable main window so that you can see more than simply the last few operations, the facility to run Snoopdos as a commodity accessible via its own hotkey or the Exchange commodity on-line AmigaGuide Spoondos output to a word processor

The trade-off is in memory usage, with an expanded Amiga probably being necesother programs are being used. Let's face it, since this is what Snoopdos is used for. there will be those who feel that Snoopdos 1.7 (with snoop enable and disable as pretty much the only commands available) will better suit the task. Of course, if you have the memory for Spoondos 3 then none of this will concern you in the least, and you should rest assured that it will perform the job admirably.

Rackdoor u2 81

Compiled by: Stephen Birminghan

Public domain cheat disks are common enough beasts, but Backdoor stands out because it features many more recent games than most of its rivals. Tips and cheats for nearly 300 games are included which are accessed via the Multiview interface as you would access a normal



Fear not if you're the world's most feeble gamesplayer, for Backdo can help you to some impressive scores - albeit a little unfairly



One of the less fluffy screens from perhaps the werld's cutest clip art compilation from Magples

AmigaGuide file. From A.P.B. to Zool 2, all sorts of games from the long-forgotten to the latest chart-toppers come under the spotlight. The cheats included are not all really obvious ones, either, there will probably be a good number that you had no idea existed.

Magpies' Kid's Clipart

Available from: F1 Licenceware

This two-disk assortment of IFF clipart contains a reasonable selection of cartoon-style pictures covering subject matter from animals to cars and buses, through to birds and people, and then back via birds to cartoon animals. The black and white interlaced pictures

are of sufficient quality to prove pretty useful to home DTP fans, and I must confess that I have already found uses for some of them. Actually using them involves importing

Actually using them involves improving a screenful of them into your TIP package and then cutting out the portion of the picture you wish to use, which is hardly a demanding task.

Of course, because of the subject matter it's best to be prepared for lots of cute, fillfulf little beastles and not to exceed.

are some pretty rice images in amongst the seemingly endless stream of cuddly teddy bears in boats and cheerfully dancing mice that make this a reasonably attractive alternative to some commercial cilipart offerings. If you have need of scores of twee animals doing lovely flow-quitings, all in the standard Amiga IFF picture format, then these disks will certainly suit the task.

anything too realistic. That said, there

Compugraphic Collection #15

Compiled by: Clive Gardner Available from: 17 Bit

The Compugraphic Collection series now seems to incorporate scores of fonts in EM Compugraphic format and since commercially available fonts are incredibly expensive, these high quality PD and shareware alternatives are excellent value.

Compugraphic fonts can be used with DTP prosense such as Pagestream 2/3, Pro Page 2.1 and Pagesetter 3, as well as word-processors Wordworth 2 and Final Writer, and of course Workbench 2.0 and above. The official Commodor installer is included on the disk; so getting them up and running couldn't be simpler.

The disk includes a good mix of display fonts, from the stylised Iglesia and the crisp clarity of Copperplate and Steel Plate Gothic, to the script-style Felt Mark and Flash X-Bold.

Mortbats adds a selection of creepy symbols such as skulls, snakes, spiders and suchlike, while Erica Bold and Erica Italics are attractive sans-serif fonts ideal when clarify is as important as visual impact. A

The following fosts are included in this volume

COPPER PLATE
Erica Bold
Erica Italic
Felt Mark Itale
Flesh Fatre Bold

Froxen
ARE SAPS
Rolesia Light

Lucida
②母愛婦子愛※単単 (Montbuts)
STEEL PLATE GOTHIC BOLD

A selection of the fonts included on

complete index, listing where to find all the fonts which have ever been included in the series is included. With new volumes due out in the near, future, this series looks set to be very popular with Amiga owners everywhere.

lay your hands on me

Roberta Smith DTP Falloden Way, Hampstead Garden Suburb, London NW11 6JE Tel: 081-455 1626

Scribble PD 2 Hillside Cottages, Burstall IP8 3DY

2 Hillside Cottages, Burstall IP8 3DY
PD Soft
1 Bryant Avenue, Southend-On-Sea
Essex SS1 2YD

Tel: 0702 617123

Online PD

1 The Cloisters, Halsall Lane, Formby

Liverpool L37 3PX
Tel: 0704 834335

17 Bit Software

17 Bit Software 1st Floor Offices, 2/8 Market Street, Wakefield, West Yorkshire WF1 1DH

F1 Licenceware 31 Wellington Road, Exeter, Devon EX2 9DU

P0 Box 36, Fro	dsham, Warrin	gton WA6 6DJ	Telephone et	iquiries welcome -	- 0928 732 550
GAMES >	GAMES	GAMES	ASSASSINS	MUSIC/DEMO	MUSIC/DEMO
18th Hole EXT 225 - 2 IESES - NOT 1200]. This is a way good looking overhead golf pame. Good multi planer fue.	Grand Prix 93 (CAT 2002 – 1 IESS; A surprisingly deep and highly consisted management game.	Road to Hell (LET 565 - 1 DESC Yet more overhead sacing in yet another great game. This time you can customase your car as	Assassins 190 (AT 779 - 1 EDQ) Includes the consists breatly Form 2 pure which is a must far two player combat action.	Fairlight 242 CAT 2761 - 1 ISSO. Commo a very long video sequence set to the usual techns tope music.	Gospel Karaoke (GAT 10 - 1 2000; 1 sounds unbelow able, but it in true Karaoke Arraya! Jesus On Cheese
3B Games Series (All 349 - 1 BSR), lockules a bolliant 3D adventure pame, which is absolutely hops.	Gush DXT 1209 - 1 DESC. This is probably the best version of Pipersonis you can get Very playable and very addictive.	Roketz DAT 1907 - 1 0008 - 1200 000,Y). This is a landatic new two player sharware blader that ready uses your	Assassins 192 (CAT 2205 - 1 ESE), Includes the bendsh Feg R puzzle gome, and the fuzzy Les Deura Hangman puzz.	☐ 8 Fingers ©28 385 - 2 (ISSS). An auto vasal feat brought to you from Spaceballs. Ya pop-vides tastic and no matake.	EAT MS1 - I EER, A fiely let per now dens with vid have you seeing from EAT 1114 - I EER, It's name-count fount tons with some seriously hard know
Advanced Hero Quest EAT 1920 - 1 DESQ. Let the computer be the game master, and provide the challenge. You need the board game to	High Octame (DAT 680 - 1 DE90. Then is a corking overlead our recor for two players. It's full to the hors with furths and spills, and pleaty of weapon pick ups.	1200's abilities well. It's commercial quality staff. Santa and Rudolf	Assassins 196 (CAT 2350 - 1 (ESS), includes a real 3D drying game that iteraby comes out of the acress. 3D specs are recorded.	Aluminium (XE 2419 - 1 0000, A nice new denice with a nice life my traced animaton. Armageddon	Artiga from with some servicely hard knot. Piece of Mind. (LST 980 - 1 USS). A great S0 extensions done with some very cleary man.
Black Dawn (CAT 559 - 1 0000). This is a totally excellent RFG adventure game that elements the manufacture of the strength of	Klawz the Cat (CAT 1735 - 1 LESS). This is a levely cute pleform genne, with classic garraphic.	FLAT 2897 = 1 IESRI. Christians part wouldn't be the same without a knelly cute leaves game for you to play would all SAT 1213 = 2 IESRI. That is an opic complete orderation with both to other drive.	Assassins 198 SAT 1617 - 1 DESC. Includes one of the best forball management eases currently enables on the 70	(CAT 102 - FOESC). A hat desso with good design and a good original bit of mustic.	Scoopex 2 Unlimited
Black Dawn 2	Knights EAT 1089 - 1 IRSE. A very very good playable two player everteed advertise perm.	Task Force	Assassims 199 [CAT 1953 - 1 DISK), Includes the whadley Propose game, and the wrade seefed residency of Delevate.	Arts (AT 562 - 1 DEM). A grapheni exhau- spanse of a demo with lunky-tranic music.	2 Udented rases. Sequencial EAT 547 - 1 1239 A roler coaster of a date
adventure. Dehoxe Galaga (CAT 1974 - 1 DES), A true cleaner as feer an about one up games ga, and har-	Mad Fighters SAT 551 - 1 SEX - 1200 SELY). A boxe-cracking good lighting game for all best em up less.	EAT 2122 - 1 IESN. had happens to be a steadarply good Space Crossed type strategy combat pame. Play a New! Tetrem (LAT 55 - 1 LESK). Tetren in a very.	period version of Defender. Assassims 201 (CAT 346 - 1 (EDR), brokedes the receiver 30 of the contract of the contract of the contract and other the contract and other the contract of the c	Attraction EAT 1245 - 1 (ISS). A great music disk with some lovely thoughtful mask. Basso Continue	For Your Mind EAT 2462 - 1 EEEE, Fast video, is mair, a restly energy experience for 64 State of the Art
testically professional wife it. Re-live some accele costalge now. Dithell In Space	Overlander EAT 2157 - 1 TEXE. As up-dated western of the old classe: Moon Petrol parts: Fals. Deen Order	[LAT 55 - 1 DSS). Terms is a very good Tetris close. It features a good selection of new oddstee, and two player region. Total War	Lesse and very playable.	ICAT 1059 - 1 DISSO. Two excellent hasky tunes are on here for your later- ing pleasure.	EAT 79 - 1 BSSC. As all time class dema. Brillant visuals and a cracks desce hase.
(CAT 110) - 1 0000, Ded two player shareware cable pletform game that is well worth the money for nurs! Golden Oldies	Pop Quiz CAT 2250 - 1 IEEE Test year localistic of pop leatery with the pop-tests quiz. Red Dwarf Quiz	ICAT 1045 - 1 DISE, A belliar renson of the board pure Blak. Six players onequire or human compete, and battle. Wasten Je in Woodserband	[CAT 671 - 1 IEIN]. Includes the all time classic platformer Latory. Yn simple, but by crickey it's good for. Assassins 206	Doop Re-mix EAT 537 = 1 EESC. A good re-cox of that chart topping tare. Gastric Ulcer	EAT 2390 - 1 DESC. Is nothing sacre Apparently not. A silly story with pi tures which provides a good length.
(CAT 130) — 1 (ISSO, A wonderful col- lector of arcade classics from the early days A good matrigs trp. ALL THE DISKS L	EAT 80 - 1 IESE. Test your knowledge of the TV series with the Dwarf-tee- te eat. It's very teeph indeed. JSTED ON THIS PAGE	EAT 273 - 1 EEK. A delightely one platform game which should easily please my kids, even a low adults to: ARE COMPATIBLE III	Includes a Bert Strepson parse, and one of the weardest Tetra thoses ever. But it's good. ITTH ALL AMIGA COM	EAT 2724 - 1 BEN: A good collection of some very hard reve taxes. Not for the fater bearind between PUTERS UNLESS OT	Techno Tracks 2 EAT 1984 - 1 DESC. Avenues on and some great visuals cashs for a rea MERWISE STATED
USEFUL	USEFUL	USEFUL	ANIMATION	MISCELLANY	1200 ONLY
GAT 291 - 1 (ESQ), Late of letters for late of tange.	Easycale (CAT 1042 - 1 (ISE). Simply the best spreadbast.	Pools Tools 2 (CAT 442 - 1 DESC: A great rich quick program? Could be couldn't i?	Animation Studio (ERT 2406 - 1 1850. A lenistic pro- gram to pet you started an animation. Features the mion skin layering teclu-	CAT 344 - 1 USAL Some essential add-us command libraries for Amon'Amon Pro.	A COLLECTION OF DISKS FO THE AMIGA 1200 COMPUTE
Account Master (CAT 1817 - 1 IESE). A good links account program to bely keep your books. Armshasse Pro 2	Edword Pro 4 EAT 2071 - 1 IESE, A brillast toe editer which has a very good hel about it. Foregrapher	PP Mini Crunch (DZI 533 - 1 DSS - MD 500), A user friendly interface for the excellent Powerpacker. Very sixe.	Boat CAT 933 - 1 0020, A very nice asimu- too of a housel Diglish garden some.	Communicate (XZ 279 - 1 0550; Lean hav to con- musicate with sign language and many more.	Big Time Sensuality (AT 22.15 - 2 (ICRS). An under va- treat of a dense with stunning graphs and an almost (ID quality secundars).
EAT 285 - 1 DESC Probably the best database program you can get. Very usable indeed.	PAT 607 - 1 1058 - NOT 500; II you've a betting man-woman, the dak malf be up your street.	S-I-R-D-S (CAT 2214 - 1 (ISS). Create your very over stereogram pictures and ballle your trands.	with a beaut Bond's Last Stand CAT 605 - 1 0020, Send cape 8 at lest, and not below lines too.	Octamed Tutor (EAT 2456 - 1 SESE An excellent guide to getting the most from Octamed or MED.	Explicit 2 (CAT 1855 - 1 (RSE). This is a pre- technically impressive damo to show your nice Amaps to your makes.
Astro 22 EAT 2120 - 1 UESC. As excellent pro- gram to help with your astrological pre- dictions.	CAT 1249 - 1 DESC. A remaile screen converter. Harma Budget	Start of the Art (CAT 2317 - 2 (ISSS), These date are packed chocker with various graphics programs.	Beach ICAT 1566 - 1 DISS). A great stopin screep picture postcard type estimation.	Spectrum Emulator (CXI 1445 - 1 ISSE Turs your Amaga into a 46k XX Spectrum. A fast-sish Amaga is recommended though.	Friday at Eight (Af 2033 - 1 0050). A very lest per dene with a really brillant mask: track Full Moon
Astronomy CAT 2047 - 1 0020. Freduces very detailed planetary information for acronomers.	EAT 1410 - 1 DESC. This is a very effective brile money manager/planner program.	Text Engine 4 SAT 1464 - 1 DSS). The best word processor there is. Very well sailed to the Anaga.	Human Cannenball SAT 1589 - 1 0000, An amusing story of how not to be a human cannoshall.	Speccy Classics (LAT 450 - 1 IES). A collection of classic old Spectrum games for use with the above enablest program.	(CAT 1740 - 1 0000). A brilliant der with a spooky intro and a good paor tion.
Classic Utilities EAT 1865 - 1 2850. A true collector of classes that you really should have. Greate Adventures	EAT 2003 - 1 0000; None video titling is seely this easy or effective. Mandelmania EAT 500 - 1 0000 - MIT 500; A very	EAT 1811 - 1 DSE, he excellent home money mouthir program. Very useful.	EAT 1008 - 1 DESQ. A very engeled man with a very good carbon stron- phere.	Spaccy Classics 2 (CAT 1419 - 1 (USK): More great panes for exclute.	CAT 898 - 2 BISKS). What a love demo this one is. Nony non sed pre-
(CAT 1027 - 1 BISE). A very nice authoring program. Crossword Creator	fast fractal governor with last zoom in and ext. Mandelplat	Utility Disk Maker EAT 2071 - 1 IEEE Proves very help- tid for creating your ewn disks, serious or box.	Raging Hormone (CAT 2780 - 1 USS). Peer old hermone yes to jud a bird. He should know bel- ler.	Speccy Classics 3 EAT 2003 - 1 DEEP. And yet more colors. The Bark Room	Maximum Overdrive EAT 2006 - 2 IESSE A very long to motion video demo which lests ages. Megahali AGA
EAT 2151 - 1 (222) Takes the strain out for you. Crunchers disk (DAT 1227 - 1 (158), If this space is ge- tage that then that that is defeated for you.	EAT 50 - 1 IESS As excelled shareware tractal generator. Total of tractal types. Magnum EAT 2006 - 1 IESS A good disk mag-	Virus Checker EAT 770 - 1 MEX, Abveys the lated version of this essential virus datator/biler.	Raging Hormone 2 EAT 2473 - 1 1022; That thick hormone just doesn't knew when to stop. Very facery.	EAT 2160 - 1 IEEE, this is a very sco- ly presented information disk for would be David Belleys. A beginners guide.	ICAY 842 - 1 DESK). The most popul breakout trpe game gets even sizer, must
top tight than the clask is definitely for you. D-Copy 3.1 DAT 2500 - 1 BISE, The best disk copier you can get.	PC Task 2 EAT 1281 - 1 USD. A working demo	☐ Words EAT 1108 - 1 0830. A handy program to help you solve crosswords and puzzles.		Titanic Cheats EAT 1951 - 1 IESR. Rhockney thock a block bill of hem, typ and cheats VIC 20 Emulator	Real EAT 2379 - 1 DISS. Pressbly the be AGA demo to date. Totally averages. Relokick 1.4
Dynamic Skies (CAT 1512 - 1 0050; An amason sight	Planetarium (EAT 1007 - 1 0000). A simple program	EAT 415 - 1 DESC. A very freadly music sequence program. Very good	Savings (EAT 112 - 1 ECS). The post office sevings advert quite a sevel end. Fusey.	CAT 1007 - 1 0000; Turn your Amiga into a VIC 20. Comes with tens of games. Needs a last Amiga to fully accounts	(CAT 2016 - 1 DES). Brings downwar competibility to your new 1200 to be get some of those old programs were

ACT (CE) of Light Annuary (and a CE) and a CE of



A suggested line-up of the hardware necessary for the most basic of teledildonic experiences

As IIA continues its steady rise through all avenues of society, it was only a matter of time before

SEX became part of the virtual. agenda. Adam Phillips reports -

LUDECSEX

ex has been with us since the beginning. Celebrated, repressed. enjoyed, frowned upon, analysed, suppressed and loved - the subject matter has always had a wide ranging effect on all people throughout the ages.

With each new medium created in society, the sexual act has always found a platform to help express itself - the printing press introduced erotic literature to the masses, photography gave birth to erotic pictures, film moved these images and now, with the coming of the computer age and more specifically, virtual reality, the normally hands-off, voyeuristic experience is going interactive with full blown 32-bit colour, photo-realistic graphics, digital sound... and teledildonics.

Over the last few years, the availability of sex-related material for computers has increased in leaps and bounds all over the world. Explicit images and video footage can be pulled off bulletin boards at the touch of a button now, causing an upheaval of moral panic in Britain.

Frototronics

With new technology beginning to enable the user to involve their bodies as well as their minds, the scoffing hilarity of making love to a computer is becoming a reality. Teledildonics, erototronics, cybersex, or

whatever name you want to give it, is simply a means whereby the user can involve themselves fully in an computerised, interactive world and, ideally, act out any sexual fantasy they wish

The main components required to produce the experience are a head-mounted display unit for the visuals and a full-sensory body data quit

With Aids and other sex-related diseases scaring people away from promiscuity, cybersex is seen as the ultimate in safe sex.

Others see the benefits as more than that - people with disabilities who have little opportunity of sexual contact, could enjoy some semblance of a normal sex life. Teledildonics could also be used in sex therapy to aid patients to overcome their fears



of human communications or a genuinely wated and important technological development? Time will tell

and psychoses towards the sexual act. American magazine Future Sex believes like many others that teledidonics will even-

fuelly end up as a full blown reality and better than the real thing Indeed, the virtual reality industry is taking teledildonics seriously - Sadie Plant, a cyberfeminist, wrote a report on teledildonics for a VR conference held at Warwick University. In

an interview with Loaded Magazine, she says: "The wonderful thing about cybersex is that everybody who has been marginalised or oppressed will have the chance to realise their desires. T think women will become far more confi-

dent once they've been able to experiment in cyberspace and, as a consequence, they'll be far more demanding of real life sexual partners. Mr 15-pints-a-night doesn't stand a chance." With all this conceptual discussion, the only thing holding humankind back from disappearing from reality all together is the

While graphic capabilities are advancing at lightning speed, the suit is a harder problem to resolve altogether - the basic principle is to use tiny sensors to let off heat and vibrations and air bladders that apply pressure to the skin as a form of tactile response.

The pictures shown here are of a basic kit that cover the main erogenous zones of both female and male. Although these are merely speculative works produced on a computer, this kind of equipment is well on the way to completion. Meanwhile back on earth, one has to wonder where all this will lead. Future Sex predicts that over the next 200 years, the system will develop into either a multiuser or a solo environment with a seamless physical interface and full visual and audio capabilities.

They believe that way off in the future, these systems will be surgically implanted to include brain-enhancing chemicals and ultimately, the virtual experience will be better than the real thing

Isolated

All this excitement and debate just leaves one burning question - is this really going to improve people's lives or simply isolate people from each other even more?

According to Mike Saenz, publisher of the infamous erotic software package Virtual Valerie for the Apple Mac, we want to become more cut off from each other.

In Future Sex. he says: " People want to remove excess human contact. Especially as the planet becomes overpopulated. They want that distance, and I think that VR sex could actually give them that." Hearing a statement like that may sound

depressing but with the one-on-one relationship between solo participant and technology becoming more and more popular, it may well be a valid, if sad, point of view,

What we do know for certain is that if you think the press and public outcry concerning sex issues is loud now, wait till cybersex blooms into a full blown industry, then the talking will turn to shouting and, as usual, the enticement of ever more exciting technology will probably win the day.

- · We would like to hear your opinions on the issues raised in this feature. Send any thoughts and comments to the usual address for the attention of Adam Phillips
- · Special thanks to Future Sex, a magazine specialising in all things cyber and erotic, and Reactor Inc. creators of the best selling Virtual Valerie and Donna Matrix titles, for the use of their concept pictures



A mock-up of the graphics that would be displayed in the head-mounted display unit







- A professional WORDPROCESSOR with powerful graphics capabilities and a 50,000 word spell checker. Ideal for a wide variety of correspondence and official documents.
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graphics, wrap text around it, load ASCII text, highlight with bold, italic

Database: Build up a versatile card index,

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Help yourself

ith the example script shown in the last episode of this series you should now have a good impression of how Installer scripts are actually constructed.

If you understood the script then you have mastered practically 90% of the language. What I will attempt to do in this instalment is to explain how you can create your own help text, manipulate variables and an assortment of other various tasks that can be performed

by Installer, including creating text files.

Take a look at the script marked Figure
1a. This is taken from last month's demonstration script – lines 17 to 28. You will notice
that it contains a Copyfiles routine and an
appropriate Felio file – @copyfiles-helo.

However, what if you didn't want to use Installer's built-in Help files or if a dedicated Help file wasn't available? You can easily create your own just by typing the text you want to appear alongside the Help

command.
If you take a look at Figure 1b you will see that I have changed the Help file and added my own help text. When the Help button is pressed at that point, the following text will be displayed:

This is my own Help file

You can easily write your own Help test in Installer but you must make sure that the format is correct.

Now! Creating Help test is really simple...

Let's take a closer look at how Help text

works. The first thing to remember, as with all functions in Installer, is to surround the routine with parenthesis. The open bracket starts at the beginning of the Help command. The close bracket ends the routine after simple...

You will also notice the 'n text. This tells.

installer to insert a carriage return at the specified location in the text. This is made clearer by comparing the actual script and results shown above.

newline character

return character

There are various other text formatting commands that can be used and these are described below:

\(\)\(\) a NUL character \(\)\' a double quote \(\)\\ a backslash \(\)

Ind that's it. That's all there is the control of the control of

And that's it. That's all there is to creating your own Help text – just remember the parenthesis. Steve White opens the door to creating your own installation scripts and explains variable handling and creating your own help text -



Using variables with Installer you can con trol and manipulate environmental setting

Special symbols

Specials are created by Installer before the script is actually executed and are used to tell the script contain things about the environment it is running in. These symbols always begin with an @ sign. Odelaul-dest is one such special symbol and stores the default directory that was selected by installer, or you if you have the option to change the installation directory.

Assigning variables or symbols couldn't

Assigning variables or symbols couldn't be simpler. Imagine you wanted to assign the value 10 to the variable y. You would type;

(set y 10)

This is read as set y to 10. You can



Variables, or symbols as they are commonly known in the Installer language allow you to test for certain parameters and also to store and manipulate information. The following are all valid symbols:

total this-is-a-symbol "faste"" 25_52

Installer implements three different types of symbol which can be used for a variety of purposes:

User-defined symbols@silt=in function names these symbols are made up of

User-defined symbolsBuilt-in function names these symbols are made up of things like + and * as well as textual names such as Belete or Recame.

amiga



Part 3

combine statements easily enough and perform all the normal arithmetic functions associated with professional programming languages:

(set var (+ 3 5))

The above statement would evaluate the + 3.5 argument first, the result being 8, and then assign it to the variable var.

One important factor regarding variables is that they do not need any type of identifier such as \$ which would normally be used for a string variable.

Installer automatically checks the contents of the variable and converts the variable to the proper type automatically.

Making text

The Installer program is capable of many things, most of which you will now be aware. But it also has the ability to create text files and add instructions, usually assigns, to the User-Startup file located in the S directory.

Figure 1c shows a simple example of a routine to create a script file. The numbers have been added by myself so that I can explain each line individually.

This line opens a routine called Textfile which, as its name implies, uses the following commands to create an ASCII text file.

A simple message just to tell the user what's going on.

The Help text. There is no pre-defined Help text for the Textfile routine so I have had to add my own.

TUTORIAL

This is the ASCII file we want to create the destination.

The Append command inserts the text after it into the file specified by line 04. You can type in as much text as you like and are free to use the text formatting symbols described above.

The Include command allows you to add other ASCII files to the one you have created - in this case the Startup-Sequence in the S directory. This is great for adding commands to the Startup-Sequence or Mountlist found in DEVS.

07 This command simply asks the user to confirm the entire routine to create the text file.

The close bracket ends the routine opened in line 01.

You now know how to create text files from within Installer. Simple, isn't it?

As well as adding text you can also add commands to the User-Startup file in the S directory. This is useful if the program you are installing needs to have assigns made every time you re-boot your Amiga.

If you look at Figure 1d you will see an example of a script that will add commands to the User-Startup file. Like before, each line has been numbered so that I can explain them one at a time.

This line starts the routine Startup - a routine that will allow you to add commands to





Most routines have dedicated Help files but if not you can create your own easily enough

Fig la

Fig 1b

(complete 30) (working "Installing MyFrog program...")

> (help "This is my own Help filein" "You can easily write your own Help text in Installer\n" "Wow! Creating Help text is really simple..."

(dest Bdefault-dest)

OS (append "Wow! I have just become a line of text in an ASCII text file.\s")

Fig 1d

Fig 1c

Q2 (prompt "I will now add an Assign for Scala in your Eser-Startup file so that the program will run correctly.") 35 (help "to belp unfortunately. Why not add your sunt")

the User-Startup file in the S directory. The

O4 (command "Assign Scala: DMD:#gltimedia/Scala")

has the abili-

ty to append

ASCII file.

This proves

useful for

Mountlists

adding infor-

text after the Startup command will be added before and after the actual command in the User-Startup file. It will be ignored because Installer will automatically precede it with ; which tells DOS to ignore that line. of 1.48

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A message to tell the user what is going

The Help text. Startup does not have an associated Help file.

Command allows you to specify the text that will be added to the User-Startup.

This command simply asks the user to confirm the entire routine of adding the command in line 04 to the User-Startup

The close bracket ends the routine started in line 01. EG

Delete the text and enter your 18 digit registration number. If you don't know it yet just click on Proceed. ater Registration number here Buit Install

In next month's article I will be demonstrating how you can check for a registration number

Next month _

and adding assigns in mor epth, explaining how you can one or a registration number and goway the complete Installer lang

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Mindscape over matter

Publishers Mindscape are planning to release a whole host of new games for the Amiga and CD32 in the not so distant future. This Winter you can expect to see Alien Olympics, for both the Amiga and CD32. The idea behind it is a bizarre variation on the Olympic theme with crazy sporting competi-

3D isometric action finds its way onto the Amiga via Space Academy, a puzzle game where you play a Space Cadet on his last mission from the, err, Space

More serious gamers can get their hands on Evasive Action, a flight combat sim. The game



Flight Combat Sim, Evasive Action intends "to make one-on-one combat more entertaining*

simulates aerial dogfighting between two opponents and promises to appeal to both games players and flight-sim fans alike

Smash hit MegaRace, which reached top spot in the Gallup CD chart when it was released on PC CD-ROM, is set to take the CD32 by storm. Set in the 21st century, the idea of entertainment takes the form of a virtual reality game show where contestants attempt to obliterate each other and use their skills to get around the 16 taxing racetracks. Employing 3D graphics and digitised animations, Mindscape promises it will be "a one-of-a-kind gaming experience."

Set for release at the beginning of next year is an Arcade/Strategy game called Baldy. The idea is to

A book at playtime

Bruce Smith Books, publisher Amiga books, offers salvation for Elite fans everywhere! They guide for Gametek's popular

bookshops such as WH Smiths

space game. The book forms part of the collection of the Gamer's Guide series and can be bought directly from BSB or found in priced £9.95



Help is at hand for Frontier Elite

Football legend

Football Glory, the new footy sim from Black Legend, is to have a sequel. At the moment details are quite sketchy as it is only in the planning stages, but it is likely to take the form of an indoor game because as Black Legend boast, its game uses real-time calculation on ball bounces.

This means a realistic deflection off the post etc., and it claims that it is logical now to add walls to the game as it is the only one to have worked out the complexity of the routines. It will also have different rule versions such as five-a-side, and will employ different pitch shapes. Don't expect anything until the first quarter of next year though.

Football Glory will also be appearing on CD32 and Black Legend intends to bring out other CD titles including Embryo and Spherical Worlds.



Valhalla, Before the War, will give you the opportunity to play from Infinity's point of view

It's good to talk

Vulcan Software, the team behind the loved and loathed speech adventure Valhalla and the Lord of Infinity, is set for another dose of verbal action in the very near future. With the sequel not due until sometime in Easter, it is bringing out another offering in the meantime.

Again the setting is Valhalla but the action centres on the Lord of Infinity's evil doings before the war. This time you will play from Infinity's point of view over four levels.

Also from Vulcan is Timeslip, a puzzler game set for release around March next year. You take control of 112 humans from the future who have been thrown back in history. They must learn to use resources and adapt to suit the different environments in a race against time. Digital speech is included and a fully spoken experiment co-ordinator encourages the expedition. The game takes place over such time zones as Vietnam, Jurassic and Roman.



neslip uses a similar graphical style to Valhalla but will be a totally different



MegaRace on the CD32 this Winter

take the community of Baldies and the aim is to make them prosper through inventing, fighting and

Other news from Mindscape this month is that it has acquired Strategic Simulations, Inc. the California-based developers renowned for its wargames, fantasy RPGs and (together with TSR, Inc.) Advanced Dungeons & Dragons game system. Joel Billings, president of SSI comments: "As entertainment software has evolved, development believe Mindscape is a strong partner who can help

us realise our product plans.



Armed and dangerous

Yes, it's finally happening. Mortal Kombat 2. The eagerly anticipated sequel to one of the finest (and grisliest) beat-'em-ups ever is going to make its appearance on the Amiga. Acclaim's first move into floppy publishing will be marked with this release due out soon

Probe Software, the same team that converted the original, has been signed to do the conversion for the sequel, so there's no reason to doubt that this will be as good as its console counterparts.



look forward to Cyberwar, which is set for the CD32 at the beginning of next year. Cyberwar is the follow-up to the Lawnmower Man game (which incidentally didn't appear on the Amiga) and is based on the original film.

Empire get 'spaced out'!

Licensed from Iron Crown Enterprises, Empire is to bring out CyberSpace - a sci-fi RPG. Set in 2090AD, on the verge of a future dark age, the game is based around the scenario of street rebellion against Megacorporation repression - (cor,

You will be able to create characters, get involved in espionage, try your hand at combat and travel the CyberSpace. A combination of vector and 3D bitmapped graphics will create

Sci-fi fanatics can look forward to CyberSpace soon, priced

Glory, glory, Man Utd



Crystal clear

Magnetic Fields, the team behind the platformer Kid Chaos and the classic Lotus Trillogy. has gone for a complete change in direction by bringing out an RPG. Publishers Kompart will bring out its new game entitled Crystal Dragon, which is intended to go right back to basics, ditching fancy graphics in favour of top playability.



RPG fans can look forward to Crystal Dragon sometime in the New Year

On your marques

Terramarque, the developer behind the chirpy beat -'em-up, Elfmania, is working on an overhead race-'em-up called P.I.D. which stands for Private Investigator Dollarally,

Now there's whales for you

Neo are bringing out Whale's Voyage 2, the sequel to its popular space RPG. It promises a more involving plot and improved graphics. Characters generated from the previous game can be carried through to the seguel.

Pond life

Millennium are putting its James Pond platform frolics together in a bargain bundle. The compilation will house James Pond 2 and 3 and will be available for both the CD32 and A1200





Wondering which games to put on your list to Santa? We give you the lowdown on some of the best releases we've seen over the past few months...

Universe

Without doubt, Universe is one of the games of the year so far. It has class in copious amounts and is presented outstandingly well. The combined icon and text control system is intuitive and friendly, making this a simple game to get to grips with.

Universe is the type of adventure game that will be enjoyed by even those normally disinterested in the genre, and must be highly recommended.



Theme Park



The graphics are simply exquisite, the sound is excellent, it is as playable as hell and more addictive than any drug. It oozes sheer class and everyone that has seen it has had nothing but praise for Bullfrog's business simulator.

ness simulator.

I could enthuse about Theme Park all day, but I don't want to because right now I want to get back to my A1200 to continue constructing my park.

Putty Squad

The graphics are beautiful and the animation is

excellent, especially on the main character.
The control method, considering just what Putty can do, is very easy to use and becomes second nature to you after only a couple of goes. It is extremely addictive and I put hand on heart and recommend it to everyone. Die-hard platform freaks and Putty fans are going to love it to death.





Dreamweb

Imagine an interactive version of Blade Runner directed by Quentin Tarrantino and you might just come close to what it's like to sit, watch and play Dreamweb.

This title oozes class out of every digital pore and it almost seems to good to be true. Dreamweb literally roars across your monitor screen and grows at you like a vicious beast from the pits of hell.

Guardian CD32

This game is a rarity in that it actually looks and sounds like 32-bit technology. What's more, the attraction is more than skin deep thanks to playability that must have taken a lot of care and attention on the developer's part. If you're out for plain old-fashioned action, buy Guardian and invigorate your spare time. This one shouldn't be missed.

The scores on the doors

Come on regular readers, you must know how it works by now. New readers, welcome to the most exciting part of the magazine, hold on to your hats...

I'm sure many of you are now familiar with our new scoring system, but for those reading Amiga Computing for the first time and those who might have forgotten exactly how it works, here is our guide to the System scoring, err system.

In our opinion, review scores have lost their context as a percentage; some products receiving scores

In our opinion, review scores have lost their coniext as a percentage; some products receiving scores which were only a few percentage short of being the "perfect" game, when in truth they were only marginally above average.

OK, so the scores might seem unnaturally low at first, but that's only because other scoring systems tend to be on the high side and perhaps not as com-

in the long run you'll receive a more concise and reader-orientated review that's geared towards the consumer.

a 20 This is given to the lowest of the lor

21-30 An all-round poor game the may have a single saving grace

1-40 Just below the average, perhaps

let down by a few indiscretions.

66 This is an above average game d is worth buying. For this reason





7-77 A game of high quality that ou as a reviewer would have no reservation in recommending. Anything of this ilk would be awarded the SILVER award.

78-89 A brilliant title. Definitely worth buying and almost the definitive of its kind. This type of game would receive the GOLD award.



O The best in its genre. This benchmark title receives the PLATINUM title.





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Which correster/s), if any, do you own?



Star

00000

beat the g



Perhaps the hardest Amiga shoot-'em-up in the world and many gamers have been suffering badly. Here is

in Stardust. Get those trigger fingers ready...

World 1

If you follow these steps carefully then clearing the first world shouldn't be too much of a problem. Begin at level one, in the top left-hand corner of the war

plan.

Tackle one meteor at a time and don't shoot at all the big boulders at once as the screen will become filled with hundreds of smaller ones, which are a lot

the screen will become filled with nunorebs of single ones, the harder to shoot or avoid.

In level one, try to pick up a gun power-up (represented by a "G"), then go to the bottom centre level and collect another. Your three-way shooter will now be at full power. Destroy the small ship that enters from the left and get the

bouncer. Clear the other levels, finishing with the level in the bottom-left of the plan, with the bouncer powered up.

The first end-of-level guardian is best tackled by flying your ship from left to

right, so you can shoot the boss as well as the shots that fly towards you. Try to stay at the same vertical position as the guardian. As it closes its doors, rotate 90 degrees and fly slowly away, so that you enter on the other side of the screen. Repeat the same manoeuvre until you have

defeated the guardian. If something goes wrong, hide behind the open doors of the ship because the shots can't penetrate them.

You'll now enter the first warp tunnel. The mines are indestructible and a lot you'll now enter the first warp tunnel. The mines are indestructible and a lot

You'll now enter the lists was banded. He lines are those so the smaller than the rocks. Because of this, the rocks will sometimes block your vision. It's best to move around instead of staying in one place. Focus your eyes on the centre of the tunnel and this will give you more time to react.



You'll encounter a wave of Stellar Blades. When they appear, they will home in on you and attack. Your best defence here is to keep moving around,

so they don't get a chance to locate you.
In the top-centre level, a couple of bombers
await you. Beware of the exploding mines they
leave behind, they can be destroyed with a couple
of well placed shots. In the bottom right level you
must tackle four huge Space Balls. Destroy one to
break their formation and this will make it easier

to take out the rest.

In the bottom-left level you will find a squadron of Trilons. You'll need shields to deal with these. Put your shields up and fly straight towards them as soon as they appear.

When you face the end-of-level guardian, shoot its appendages while evading the tailed eye. When all the appendages are destroyed your shots can penetrate the main body. To defeat the eye, ity backwards and forwards at the edge of the screen and this way it won't be able to home

The special mission, should you accept it, is a tough one. Firstly, your ship is constantly being pulled to the ground. Secondly, you must keep an eye on your fuel gauge. Remember, when you fly through tight spots use your break by pressing

fire.

For the warp tunnel, use the same tactics as you did in the first.



Down one of the amazing warp tunnels and this time you've got a cluster of spinning heads to deal with



Each level defeated means you're that one step closer to completing the game



On this level try to keep on the look out for the mines. Watch out because they're quite hard to spot while you're happily blasting away

World 3

The bombers you face in the top-centre levels: leave spinning morph heads behind instead of mines. The heads rotate and breath fire. When they start to morph from the ball shape, do a runner or you'll wind up dead. in the bottom-right level you'll have to deal with the fibron Balls. have to deal with the fibron Balls. have to deal with the fibron Balls. the edges of the screen. Stay in the edges of the screen and fer where you want by rotating your ship.

bit Plate awaits you and you'll finitely need your shields to ce it. The Space Worm is best ken out with missiles. Fly your ip around it and try to hit its dy parts. If all else fails, put our shields up and make a









se weapon selector plays an important part in Stardust. Always make sure you've got your power-ups going to the right weapon

While the city beneath you burns away, you must concentrate on destroying those rampant





World 4

This level introduces two new threats: the Speeders and the Beetles. The Speeders try to home in on you just like the Stellar Blades, but they take more hits to destroy and are affected by inertia. Make sure you keep moving around the screen while you shoot them.

The Beetles attack in groups and the best time to shoot at them is when they begin to rotate.

The end-of-level guardian has three phases. To deal with it, you must wait until it spins around, then you must accelerate, fly away and turn around to shoot at it. When it stops it either morphs into a plate

shoot at it. When it stops it either morphs into a plate or a ball.

If it takes the form of a plate you can expect a burst of shots. If it turns itself into a ball, look out for the homing missiles. The best weapon you can use against

this guardian is the flamer.

Enter the fourth tunnel and make sure you get every energy power-up that you can see because you're going to need your strength for the final

world.

World 5
This world is what your shoot-'em

This world is what your shoot-'emup nightmares are made of. This is where you will face everything the profes-

sor throws at you, before he finally has a go.
In the top-centre level you will encounter waves of

Orbit Plates flying from the bottom of the screen to the top.

Shooting them won't help, so concentrate on avoiding them and use your shields when you get yourself

Shooting them won't help, so concentrate on avoiding them and use you silents with you get year.

Into a tight spot.

The guardian of this level is the professor himself. He will attack you with an egg-shaped machine

which is armed to the teeth. The egg will try to crush you, so keep moving and shooting.

When the egg stops, a hatch will open revealing a flame-thrower or, maybe, a cannon. The flame-thrower has a limited range and it only comes out of the top of the egg.

thrower has a limited range and it only delines on of the topy of the eggi-The other weapons include a missile launcher and a rapid fire plasma rifle. When the egg is destroyed Professor Schaumund himself will appear, shooting at the sides of the screen at an incredible

He is immune to your weapons so concentrate on avoiding his shots and attacks by moving up and down in the top and bottom edges of the screen.

down in the top and bottom egges of the screen.

Defeat him and the "I'm really quite good at the really rather hard shoot-'em-up Stardust" award will be your.



World 5 and you have to contend with the kind of enemies that you definitely wouldn't want to meet on a dark night



Shooting the weapon transporter will enable you to gain some extra fire-power, but keep an eye on those hazardous asteroids



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uring the run up to Christmas 1993, a game created by Bloodhouse, a then unknown software developer from Finland, arrived on the Amiga games scene, It was a shoot-'em-up of epic pro-

Bloodhouse had taken the good old classis theme of asteroids and tweaked it beyond belief in the graphic and sound departments. Stardust although hard, soon became a firm favourite with Amiga games-players everywhere and When System previewed Stardust back in lat-1939, we mentioned that Bloothiouse was the 1939, better the start of the start of the start only, potential, county 1934. Bloothiouse has returned with an sehanced version of it's desict thouse the start of 1120 and CD22 cowners. The odd thing now is the fact that Bloothiouse has writched publishers. The latest incarnation of Stardust is being handled by Team 17, which when you look at it, it one of the licence desis of

use really tested the A500 to the limits

INTRODUCTION

with Stardust and gamers were genuinely shocked at just how good it was. Some people wouldn't or couldn't believe that the infamous "warp tunnel" sequence was created on the

Amiga.

The A1200, launched after Stardust, is ten times better than its A500 counterpart, so no-one was more interested in how Super Stardust was going to turn out than myself.



Words don't really tend to do the warp tunnel sequence any justice at all, it's simply one of those things that has to be played to be

Super

The return of the deadly, drop-dead gorgeous shoot-em-up from hell! Jonathan Maddock primes his trigger-finger and prepares to take on the might of Professor Schamund once more.



Just like the original, Super Stardust contains a few special missions which present you with the golden opportunity



The end-of-level guardian from level one can be defeated quite easily if you move horizontally and use your shields intelligently

STORYLINE

One year has passed since Stardusters defeated the evil Professor Schamund. Little did anyone know that the mad Professor had only departed on a temporary basis and was busy patching up his wounds.

and was busy patching up his wounds.
As expected, Profesor Schamund has returned, but this time hat's being backed up by an even more evil army of destruction. He is making amonte attempt to re-up by an even more evil army of destruction. He is making amone around. The evil one is upon the refundable of the profesor of the profesor



The first warp tunnel sequence features a Bomber which chucks a load of indestructible, ahem, balls at you

SOUND

I do whinge rather a lot about everything and anything, but when it comes to games nothing gets my goat more than the low standards of music contained within them.

Super Stardust is a fast frenetic blaster, so it needed an apt soundtrack to accompany the action. Cue the most outrageous rave/dance tunes ever to appear on the Amiga.

A plethora of hardcore breakbeats and some of the hardest and nastiest noises pound at your ear-drums while you maniacally bash away at your fire-button. The tunes are diverse and range from the soft (played between levels) to the seriously harsh (belted out while you fight the end-of-level guardian). It's hard to put into words what the actual tunes sound like, but imagine a dangerous concoction of the Prodicy, Underworld and Orbital and you're

getting dose.

A handy tip for the sound is to put your Aniga through a Hi-Fi and then pumo up the volume as loud as you like. If you haven't got a decent stereo, then plug a pair of headphones into your monitor and once more whack the volume up. The various tunes and effects are simply not done any justice if you let them play through ordinary I/or monitor speakers.







The most useful thing that you can blow up is the weapon transporter which carries all kinds of destructive goodles



those power-ups, our Stardust pilot meets death with a couple of asteroids



The first warp tunnel sequence. Rem to try and shoot those golden asteroids and pick up the following energy pick-up



Another shot of the brilliant tunnel sequence featuring a series of superbly ray-traced flying heads FLASHBACK

If you were to go back through time to about 1979, you'd find Stardust in an arcade somewhere. This was, roughly, when gamers gob-smacked. Now almost 16 years later and you can still find its influence in the majority of shootem-ups. Technology having

get 256 colour graphics, stereophonic sound, but the gameplay

Stardust, when released in

late 1993, was an immense suc-

cess and although Super

Stardust is merely an enhanced

version, it is the only game to

Stardust

GRAPHICS

Do I really even need to write anything in this box?



Beautiful just doesn't seem an adequate enough word to describe

Show me a shoot-'em-up game that looks better than this one and I'll laugh in your face because nothing looks as good as Super Stardust. Utilising the new AGA technology, Bloodhouse has rendered all the ray-traced sprites to perfection

The backdrops are also a sight to behold and although they're immensely detailed, they don't interfere with the game, meaning all the asteroids

and enemies are easy to pick out

While the main graphics are amazing, you will go seriously nuts when you see the new and

into words just how good and playability this looks when it's moving along at a rapid pace, but you can't fail to be

impressed by it. The warp tunnel sequence could be made into a game on its own rather than just a sub-section that

links the five levels together. Super Stardust is the best looking shoot-'em-up ever created on the Amiga, what more do you need to know than that?

come close to beating the origisequence. It's hard to put nal asteroids for sheer addiction



When a game has got graphics, sound and playability as good as this, shouldn't Super Stardust get 100%. Yes it

should, but there is a fatal flaw in Team 17's plan Firstly, the game is virtually identical to the original. Admittedly, the presentation is far far better, but that's

because the game is utilising the power of the AGA chipset Secondly, the game costs £30. This means that if you've got an A1200 and For those people who have already got Stardust, then I suspect you might only splash out £30 if you're a Stardust fan

Apart from that minor indiscretion. Super Stardust is, in my book, the shoot-'em-up of 1994. Some people complained that Stardust's difficulty level was far too high. Super Stardust isn't any easier than the original, but if you spend lots of time playing the actual game then I guarantee that you will get a lot of longterm satisfaction and enjoyment out of it. Me? I'm off for another serious bout of blasting with the volume turned full up



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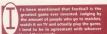


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TRADE ENQUIRIES

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urprising that the computer football s far more popular than any other gen ade games sell well, but it is the manas mulation that has been top of the leag

he last few years. ou can thank Gremlin for this because when it ssed the original Premier Manager a few years it created a game that was as close to football

INTRODUCTION

ement as you could possible get.
Sheffield-based software house then created sel which surpassed the original and now in Interactive is hoping that the third game

in the series will do just as well.

Looking back at Gremlin's track record, I can't see anything but success for the latest Premier Manager offering.

A bit of a bold thing to say in the introduction ut I've already played it you see and it's rather



ADDITIONAL INFO

Although graphics and sound are quite important in a piece of software. I'm sure fans of the game would much rather know about all the new features that have been included.

One of the major new features is the introduction of an Assistant Manager. This person can help with the day-to-day running of the club, leaving you to sort out the running of the team. He/she can do the training schedules, treat injured players, check sponsor boards, hire and fire employees and negotiate player contracts.

All these tedious jobs which were a pain in the previous games are now a thing of the past, although it depends on how good your Assistant is as to how much he/she does.

A new transfer system has been incorporated which lets you see other club's bids, allowing you to raise yours accordingly at the right moment. This time around you haven't got as much money to start with and you must try and get the money off your tight-fisted directors to buy players

The most interesting feature of all is the new tactics editor. You can now change what each player does and where he plays on the pitch. For example, you can decide how far out from goal each player shoots from or you can tell each of your defenders to clear the ball whenever they receive it, and so it goes on

What you get is a far more indepth game and your decisions really do affect how your team performs. A feature which you should be very wary of is the fact that you can now he sacked immediately in mid-season if your management performance isn't up to scratch



Manager 2, but somehow looks s hort's -- Records Short's -- Record The sponsor boards provide a vital source of

income for your club, but do you go for the big money or a slower more steadier form of incor



The new tactics options give a whole new slant to the game because now your decisi directly affect the game you're watching

FLASHRACI

Obviously you only have to look back at the previous Premier Manager games to find a game of the football management simulation variety. Ignoring these though, there are a whole wealth of management games out in the shops and most of them are pretty damn good.

A firm favourite and Premier Manager's closet competitor is Championship Manager which has sold incredibly well over the last couple of years plus it's been faithfully supported by a whole range of data disks.

On the Ball: World Cup and League Editions have been the latest additions to the football management fold and with their fancy TV style graphics they're sure to put up a lot of

Even Sensible World of Soccer has got a new management aspect to it and no doubt this will he a hig seller, but in my opinion nothing compares to Gremlin's Premier Manager series



SOUND

There really isn't a need for superb sound effects and music in a game of this type. That said, Premier Manager 3 does contain a fair smattering of sound. The match sequence comes complete with crowd effects and you're even treated to a selection of sampled speech when something happens within the game.

The introduction tune is quite good, but I'm sure dedicated gamers will skip past it to simply get to playing the game. However, if it didn't have a piece of introduction music I'm sure you'd get people whinging and complaining.

What sound is in the simulation is good, but you don't really need any sound whatsoever to make this type of game a success.





GRAPHICS

This latest version has been given a good lick of paint in several areas. First is the actual backdrop to the main menu which can now be user-defined. All the colours of the rainbow are in there and it's all down to you how good the game looks.

The ground improvements screen now features a full stadium and although it's a superficial change, it does look rather nice. The biggest change appears when you finally get around to playing a match.

Gremlin interactive has scrapped the animations from Premier Manager 2 and introduced a full stadium that comes complete with players in correct strips into the management fray.

This means you get to know exactly where the

bali is at all times and it's a know exactly where you're



even be changed into shirts' numbers so that the screen isn't so cluttered, and if you don't fancy any of these new graphics then they can be simply turned off.

The rest of the menus and screens are very similar to the ones found in the first sequel, but on the whole Premier Manager 3 looks a lot more polished and better presented than it's predecessors.

AWARD



Assistant Manager who you can get to do all the dious jobs like training and sponsorship selecti

Premier Manager

You asked for it, now you've got it! Gremlin Interactive are proud to present the third and last [?] Premier Manager game in the series. Jonathan Maddock cheers from the terraces...

OPINION

80%

With the introduction of loads of new and innovative features, there wasn't any question that this third game in the series wouldn't be good. Even though it's about a year since I played around on the last one, I picked up the Premier Manager swing of things almost immediately The new graphical inclusions really do set Gremlin Interactive's management simulation apart from

the rest. The game is now just about perfect and Realms of Fantasy has included everything that you could possible want in a football management game I suppose if you bought the first and second games then you might want to, for financial reasons, steer clear of the product, but then again, by buying both those games you must be a bit of a fan and

Lexpect that this third game is already on your shopping list. As far as gameplay goes, Premier Manager 3 is in a class of its own, but where it really scores is in the addiction stakes. I raise my hand now and admit that I did

play Premier Manager 2 into the early hours when I should have gone out and had a life. I fear that Premier Manager 3 will have the same effect on me, so I'm locking it away, such is its addictive power If you loved the previous instalments then you'll want Premier

Manager 3. For football management beginners there isn't a better game on the planet to get you started. A better layout for this page would have been the headline "Premier Manager 3" with the words "Buy it" underneath. So what are you waiting for?



Now isn't that much better? Marvel at the new-look match e, most of which can be turned off if you don't like it

The transfer market has undergone some changes and you're able to outbid the other competing clubs to get your player to sign on the dotted line



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INTRODUCTION

dassic piece of Amiga software. Its name was Arcade Pool and it was and still is a fully fledged, fast and frenetic pool game of epic

proportions.

With the advent of CD technology, the "budget" game that took over two years to develop is making a star appearance on the CD32, complete with sonic and graphical enhancements.



There are a number of different game styles. In Speed Pool you have to clear the table as fast as you can, which is not quite as easy as it sounds



In Arcade Pool you can customise rules, change between the UK and USA ball sets and even the colour of the baize can be changed

Arcade Pool CD32



If that three-ball plant ever comes off, then you can quite happily watch it over and over again via the replay option Chalk your tip and prepare to break off into pool heaven.

Jonathan Maddock has a look at Team 17's excellent

Arcade Pool, this time making an appearance on the CO32

GRAPHICS

Arcade Pool is viewed from an overhead perspective rather than a number of angles. The balls (UK or a UKS set) on the table are brilliant and imove about and clack into each other just like the real thing. The screen displays in minimal but his buf such bad thing as you tend to concentrate on the action cather than some usenflows and flath orachics.

A superb ray-traced introduction was talked about, but it seems like that particular idea was shelved. Graphically, there is virtually no difference between the floppy and CD version of Arcade Pool, but this isn't too much of a worry as the graphics were so good in the original version anyway.





SOUND

When developing the original, Team 17 thought about sampling a pub atmosphere which would play while you reclaim of the probably play are you probably just a very good exuse to drink copious amount of alcohol in work time). The idea couldn't be implemented into the floppy disk version, but it wasn't forgotten about and has been included in this CD32 version. There are as ki different atmospherestrums to choose

from. The first two sound like pubs with people talking and, supposedly, drinking. They don't sound like pubs with people talking and, supposedly, drinking. They don't sound like the pubs I go in, but they do the job adequately enough. The next is a pool hall atmosphere which, when turned on, instantly transforms you into Paul Newman from the Hustler.

There are a couple of Blust tunes which are more or less

to though is entitled Thang and simply consists of some quality drumming and some minimal plano playing.

If none of these tunes or atmospherics appeal to you, there is always the silence option, so you can enjoy the superb sound effects all on their own.

80%

OPINION 85% Arcade Pool shines in almost every

Arcade Pool is also incredibly addictive,

almost as addictive as the real thing, but considerably cheaper. You always feel inclined to have "just one more" go whatever the result of

£14.99 might.

the last game you played.
I highly recommend Team 17's brilliant Arcade Pool to every CD32 owner on the planet, and if that doesn't convince you then maybe the incredibly low price of

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INTRODUCTION

are the animated films such as Dumbo. Snow Mhite and the like. More recently though, a popular route for the films and Disney characters has been as a license for computer games, and Virgin certainly has its eye on the main chance this Winter with two Disney eleases imminent. The first is Absidin followed soon after by the Lion King. We take a look at Aladdin, its initial offering, and see whether it matches up to its cinematic.

Make a sneaky escape across the washing lines

Tina Hackett shouts
"Alakazam", "Open Sesame"
and all that as she enters the
magical world of Aladdin.





Aladdin



SOUND

effects.

Himm, clever bit of marketing this, using a film licence thing because it comes complete with sound track. And in this case, a Dispers yound track at that I All those who have seen the film will be instantly whisked back in to the plot and for those who havenet "- well, the true isn't one of those horrible grating ones you will soon be humming along in no time!

The intro tune "A whole new world" sets the mood brilliantly and it from

The intro tune "A whole new world" sets the mood brilliantly and is from one of the more sentimental parts of the film with its melodic tone – creating that magical atmosphere that Disney does so well.

that magical atmosphere that Disney does so well.

The rest of the in-game tunes are taken from the film and change with each
new level. This gives variety and means if you don't like one of the tunes then

new level. This gives variety and means if you don't like one of the tunes then all is not lost! They all fit in incley with the speed of the game and the setting. It's also crammed full of sound effects, from sword blows and yelps to a goading baddy urging you to take him on! In fact, most actions have their appropriate sounds, with a good range of realistic and some almost mystical.

75%



STORYLINE

Okey, who honestly doesn't know this tale? Well, me for starters! So after a brief storytelling from those here in the office, this is a quick recap.

The sultan's advisor Jafar is plotting to take over the kingdom. He wants to steal the magic lamp from the perilous Cave of Wonders. Aladdin is a street rat who must steal to survive. Jafar sees Aladdin and realises a plan to get Aladdin to stal the lamp for him. And in true "scene-setting" style, that's where you come in!



Earn yourself some extra bonuses







of detail he graphics cellent job







Many know the tale of Aladdin but it's origins are not quite so familiar. The story is part of the Arabian Nights, tales from the 10th century, originally coming from India. Also known as The Thousand and One Knights, the other stories include Ali Baba, Sinbad the Sailor and The Old Man of the Sea.

Legend has it that they were were told to the Sultan by his bride Scheherazade who told the stories to avoid execution. The previous brides were executed after the wedding night to prevent them being unfaithful so she began a different tale each night, promising to finish it the next evening. The stories were first translated into European in 1704 by

the French writer Antoine Galland.







FLASHBACH

Hmm, Amiga platformers - well, we're not exactly short of comparisons there. But good ones - that's a different story. As far as animation goes, Aladdin is in a class of its own. Consoles have somewhat ruled the roost as far as good looking platformers go, but with this being converted over to the Amiga in such a fine fashion it should keep even the most disgruntled Amiga platform fan more than happy.

GRAPHICS

We're normally a pretty cynical bunch in the Amiga Computing office, but Aladdin really did impress with its superb graphics and attention to detail. The animation is smooth and flowing, with each character having personality packed into every pixel. The main character of Aladdin has many different expressions and movements. Every action really works like a cartoon. For example, when he leaps across something his baggy pants move with the air, or If you leave him standing he leans on his sword or juggles apples.

Other characters have just as much detail. For instance, the knife throwers, whose jaws drop in horror when you throw something at them resulting in their trousers falling down, or the comical snakes who slither

The backdrops create the many settings, brilliantly using different levels to make it all the more interesting as you pit your skills against the terrain. Foreground detail makes the whole thing more realistic, making for some

interesting gameplay - for example, the rocks are built up in stages. Each level creates a different atmosphere, from the dusty market streets to the mysterious caves with its deadly spiked roofs.

80%

OPINION

I dread to use the phrase "Interactive cartoon" but this is pretty damn close. All the elements are top notch and could quite easily pass for cartoon quality.

However one thing does worry me - it is rather too easy. I imagine this game wouldn't last some of the more advanced games players all that long. As the title is geared at the younger end of the market this is understandable, and with the addition of a

difficult setting it will prolong the game to some extent Action is varied and the many requirements of the levels will demand different skills. One minute you'll need your best swashbuckling talents to keep the enemies

at bay, the next, timing your jumps across trees to reach bonuses. There is a temptation with licensed games to release a sub-standard product, thinking that it will sell anyway. Thankfully, Virgin/Disney have done the decent

thing and released a title of exceptional quality that is a more-than-fitting succes-For platformer fans everywhere I'd definitely recommend this. For those who

prefer a more cerebral type of game, then Aladdin won't really fit the bill, but what the game does have is an abundance of gorgeous graphics, superb sound

AWARD

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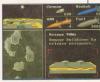




t and my mind wandered back to e good old days when the only piece f software that ever mattered to any-ne was a beautiful little 3D game enti-ed Virus. A classic game of original ad epic proportions that will forever e remembered by gamers old enou



is your dream game. It's got bags of them depending on how good at shooting you are



The map screen gives you various bits of information plus a smaller and ever-sohelaful representation of the main screen

Zeewolf is set in the future and due to the Polar ice caps melting, the world is now a sorry and very damp place. Ecliptico, a huge corporation, contributed to the disaster by

dumped toxins all over the place. Ecliptico profited from every global disaster and channelled the profit into building a corporation with more military power and global influence than any superpower

Zenith Research, a rival but smaller corporation, has cracked the secret of fusion power and created a reactor that produces plentiful, cheap energy with no harmful byproducts. With this power, the world could be put back to rights once more, but Ecliptico has stolen the plans and is

only a few prototype units of the Zeewolf and the only available pilots are highly paid mercenaries prepared to risk

job to fly the Zeewolf into battle against Ecliptico.

STORYLINE

cutting corners simply to make a fast buck. The company hacked down forests, polluted rivers and

Leewo

intent on monopolising fusion power for itself The only chance for Zenith to get its plans back is to use its new helicopter gunship, code named Zeewolf. There are their lives for huge amounts of cash. For Earth's sake, and for the good of your bank balance, you play the part of one of these mercenaries and it's your

won't notice this in the screenshots, obviously, but it really is a sight to behold. The surrounding graphics are just as good and things like the huge aircraft car-

rier are worth a special mention. The back-

grounds don't consist of much more than

a few trees, but that's just fine with me as

GRAPHICS

The game is viewed from the one angle. placed just in front of the helicopter. This enables you to see the whole of your gunship, plus you get a good picture of what's going on around you.

Zeewolf is a 3D polygon game and. more often than not, these types of game suffer in the graphics department, but Binary Asylum's Amiga debut is more than a notch above your average kind of game. The helicopter is beautifully done and moves almost like the real thing. You

you can concentrate on the action One thing that will impress you is the explosions. They look fantastic and really add to the game because after a vehicle or building has been destroyed, a wave of black smoke bellows into the sky. This looks brilliant when you fly over the

instead...

war-zone later on in the mission and you can admire your destructive handiwork.

There are other nice touches such as the map and mission objective screen. When selected, you find that a quarter of the screen has a scaled down version of the main screen inside it.

Overall, the graphics are of a very highstandard, but aren't too fantastic as they might distract you from the job in hand. If Zeewolf did have 256 colour graphics and ray-traced objects everywhere, then I get the feeling that the game just wouldn't perform as well as it does now.







INTRODUCTION

know better. Zeewolf looks a lot like Virus, but inary Asylum has made the genius tion of a state-of-the-art proto ype helicopter gunship. Cue plenty of not-blooded shoot-'em-up action, cou-led with a healthy amount of tactics

nd strategy. If Zeewolf has got half of what Virus ad, then this could be what the Amiga ames-playing world has been waiting



Hostages and scientists must be dropped off to safety. An aircraft carrier is your best bet for a drop-off point

As well as ground targets, you can get attacked rom the air allowing you to re-live those Blue deriAirwolf me



Grab that helmet, jump in your chopper, start those rotor blades and be a co-pilot to Jonathan Maddock as he admires Binary Asylum's Amiga debut.



Zeewolf isn't spectacular in the sound department, but all the various beeps, bangs and crashes do their job to perfection. The chugging of your rotor blades as you fly over the landscape is basically the only noise you need.

Zeewolf is one of those games which must be played with the volume turned full up at levels loud enough to make your neighbours think you've got a full scale war-

zone in your house. The tune in the game isn't brilliant, but you only hear it at the beginning of the game and after you've completed one of the missions anyway

I'm sure games would be improved ten-fold if software companies would spend more time on the music side of things, because it tends to get forgotten about and that is a real shame. Films have really good themes and soundtracks and the same should really apply to games, but

Zeewolf has some nice sound effects that do the job they're supposed to and a rather bog-standard tune. Overall you'd have to say that the sound is good, but it's not great.



Price: 479 88 ere: Shoot-'em-op/sio

lard disk lastall; No rei system; Messe/Jeys ts: A500/A000/A1200/A400

OPINION

that's enough of my soap-box ranting

Let's not beat around the bush. Binary Asylum has created one of the best Amiga debut games I have ever seen. OK, so it may be very similar in looks and style to Virus, but that isn't such a bad thing, in fact it's a very good thing

world, when I was a kid I wanted to sit super-powered helicopter. Zeewolf is the nearest I'm ever going to get to achieving

one reason why I like it so much. Another, far better reason could be

that the game plays like a dream. Once you've mastered the controls, which to someone with a bit of intelligence is fairly easy, you're away in a shoot-'em-up world packed full of action and excitement. Control via the mouse is a lot harder to

master and I have to admit I haven't tried playing the game with it a lot, but that's because I've been quite happy using the joystick and have had no problems at all. and there are so many good things about it that I couldn't possibly list them all, but even better is that there aren't many, if



Binary Asylum can slap themselves on least, a tremendous success. It's a game that doesn't rely on heavy advertising or publicity to sell it, but simply lets the gameplay do the talking. I have nothing but high praise for Binary Asylum's debut and it is, quite simply, one of the gaming £5,000 Grab a book today!

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ands?
To be perfectly honest with you. I
son't know or have any answers. All I
and is present the next Amiga platform offering to you.
Renegade is one of the best software
houses at producing high-quality games.
Have a peck through their back catalogue
and you'll find classic titles such as

INTRODUCTION

Speedball 2. Magic Pockets. Uridium 2. Fire & Ice and Sensible Soccer. There is a reason why the games are so good. It's simply because Renegade has had the foresight to sign up some of the best Amiga developers in the country. THE Bitmap Brothers. Graftgold and Sensible Software are just a few examples.

Renegade together with developers, Wunderkind have created Ruff in Tumble and it's a game that might make you think twice before dismissing the plat-form genre.



That burreaw could prove to be a pain if Ruff lands hadly

The start of Ruff's adventure and the little

blande-haired hero is tooled up and ready to rock



Nice explosion! Ruff destroys one of Dr Destiny's Tinhead Army and carries on the search for the missing marbles



Hey, I spot a puzzle element to the game. Pick up that key and you'll get past the fatal laser beams

Do you fancy a bit of rough, perhaps with a side-order of tumble. Jonathan Maddock leaps, bounces, shoots, flicks back his quiff and admires Renegade's latest addition to the platform genre.

STORYLINE

The hero of the game is a blonde-haired, gun-toting, cutesy kid called Ruff. While playing marbles near a mysterious rabbit warren, Ruff loses one of his precious collection when it rolls down a tunnel. Ruff decides to get his marble back, but little does he know that down the tunnel is a teleport to another world. Ruff, dazed and confused, finds himself on an alien planet. He later discovers that the world is run by the evil Dr Destiny. The mad doctor controls a fearsome army made up of robots called the Tinheads.

Our hero, to his surprise, also spots his marble collection lying strewn throughout the planet. Armed with a variety of weapons, including flame-throwers and laser-guns, Ruff must battle through four worlds and 16 levels to recover his marbles, and while he's at it he must also save the planet from the evil clutches of Dr Destiny and his Tinhead Army.



On his travels, Ruff weaponry which is dotted all over the ood work fella!



GRAPHICS

The words "exquisite", "superb" and "gorgeous" do not even come close to describing the graphics in Ruff 'n' Tumble. I haven't seen a platformer look as good as this in quite a while, only Magic Pockets and Gods could challenge it for graphics supremacy.

There isn't an introduction sequence for the game, surprising as they come fitted as standard for most games of this genre, but that's a good thing rather than bad as your whole attention goes on the in-game graphics.

The attention to detail in Wunderkind's platformer and the various explosions have had a lot of time and effort spent of them and it's paid off. The animation is

top-notch throughout, but the main "Ruff" sprite is totally brilliant and although he looks quite nice in the screenshots, Ruff comes to life when you're

playing the game Details such as Ruff's quiff which flicks about when he runs around the screen are nice inclusions. Although these small factors alone won't make you want to buy the game outright, they do go a

long way to making the game, as a whole, a more impressive product. Put it this way. If the graphics in Ruff 'n' Tumble

could be represented by a meal they would be a Sunday Roast dinner complete with all the trimmings, plus you'd also have apple pie

and cream for afters.

COLLING

ruffer

Most games of this ilk do make the unfortunate mistake of ruining the whole package by adding a cutesy, plinky-plonky soundtrack - the kind of tune a six year old might appreciate.

Luckily, Ruff 'n' Tumble hasn't made this mistake and although it's by no means a classic, the music is adequate enough to keep you leaping and shooting at a rampant frenetic pace.

The sound effects also do their job with plenty of bleeps and bloops when you collect one of the pick-ups. Explosions are abundant and they make enough noise to keep your attention.

In this case, the sound and effects are quite good, but during the fastpaced action you don't tend to take ing though, I'm sure the game would





DITIONAL INFO

There are four worlds in Ruff 'n' Tumble, all with their own distinct. theme. The first is Fantasy Forest and Ruff must race around the woods and tunnels to rescue his marbles. There are plenty of underground sections to the game and the graphics darken accordingly

World two is the Underground Mine. This has lots of slippery crystal surfaces and pools of molten lava dotted around the place. Keep a careful eye out for the Miner and the Drillbot

The third world is entitled Tinhead Factory. The metallic levels feature lots of flickering lights and fatal electric fields. It's best to steer clear of the masked Docker and watch out for the rockets which will launch themselves at you, if you get too close,

The fourth and final world is Dr Destiny's Castle. The floors are littered with concealed traps and various metallic beasties. There are Knights armed with swords and shields, plus it's worth keeping tabs on the Wizard. Defeat the end of game baddie and







The hero of the game stumbles across a secret room,

stuffed full of bonuses including a cool pint of Guinness

NOINION

Ruff 'n' Tumble is one of the best platformers I've played in ages, Not since the days of the Bitmap Brother's Magic Pockets have I seen a What really appeals, despite the success in the graphics department, is the difficulty level. This level is set high so that even the most experienced gamesplayer will have to spend plenty of time mastering the vari-

Even though you're surrounded by cuteness, don't think for one minute that Ruff 'n' Tumble is for kids only. Older gamesplayers will revel in the tough platform challenge.

right. The graphics are superb, the sound is good, the gameplay is amazing and it has an uncanny level

Ruff 'n' Tumble is, quite simply, the cutesy platformer of the year







system T

take its overhead racing game to the

Turbo Trax • Arcane Entertainment

Nitro, an overhead racing game from the dark and distant past, was, as far as I am concerned, the only game of its genre that ever mattered, but all this could be about to change courtesy of Arcane Entertainment and its latest Amiga offering entitled Turbo Trax.

Turbo Trax is an overhead racing game, but it features five different types of car, 25 tracks, realistic collision detection, a shop where you can purchase spare parts and graphically it looks completely brilliant.

There will be five scenarios in which you race, including a forest, racetrack and even the ubiquitous icy track. The cars will include a sports car, a jeep, a 4x4 off-road vehicle, a dune buggy and an Indy car. Each will handle differently and will have their own advantages and disadvantages.

Arcane has been working on the game for about a year and although its not a name familiar to many, its been responsible for the graphics in games such as

Syndicate and Populous 2. Turbo Trax might receive some serious competition from Team 17's ATR, but from what we've seen and heard, Arcane may have created a racer that's already prepared to take the chequered flag this Christmas.



Turbo Trax is going to be in hot competition with Team 17's ATR

Valhalla: Before The War • Vulcan Software

When Valhalla was released in the middle of this year it received a whole band of mixed reviews from the computer press. The percentages ranged from the high 90's to the lowest of the low, but thankfully, Amiga gamers didn't take a blind bit of notice and went out and bought it anyway. Due to immense public demand for another speech adventure after



the release of Valhalla: The Lord of Infinity, Vulcan Software decided to start work on a special edition budget version of the game entitled Valhalla: Before This prequel uses the same game engine as the

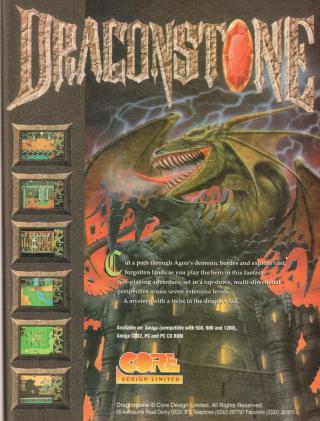
original game and it is based on the Lord of Infinity's exploits before the war. It's spread over two levels of manic puzzle solving and features more speech than

The game boasts a 500 word vocabulary, loads of interactive characters, plenty of atmospheric soundtracks and you get to play it all from the Lord of Infinity's point of view.

At the highly reasonable price of £14,99, this is a perfect game to ease your Valhalla hunger, at least until the proper sequel is ready which is due around Easter time next year. Another Vulcan Software title you might want to keep an eye on is Timeslip, which will be available in March 1995, and hopefully we should have a preview of it sometime in the very near



screen from Before The War, but don't worry vou can expect this prequel to look almost the original



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Super Stardust



upgrading to.

Slick graphics are in abundance in this Team 17 shoot-'em-up. The ever-popular gameplay of Asteroids is employed here, combined with a mixture of superb graphics and

some spectacular technical effects like speeding through tunnels. It could be one of the best shoot-'em-ups of the year but it's up against a sports game (SWOS) and it might be at a disadvantage not having the same amount of publicity as maybe Rise of the Robots or Cannon Fodder 2. When all said and done it is A1200 and CD32 only - plus many will



Technically superb graphics will ensure Super Stardust is one of the most popular shoot-'em-ups this year

Sim City 2000

This excellent "god" game from Maxis will be converted to the Amiga for megaloma-'SIM' offerings, for example, Sim Earth and Sim Life to name but two.

Its appeal may be limited to an older gamesplayer though as it is quite a complex game, and to get the most out of it you may need 3Mb of

also make a big

already have the original and wonder if it is worth

Jungle Strike

Securities again. The following to the continue of the continu



System



Rise of the Robots

A game backed up by a huge advertising campaign is bound to have raised the interest of many gamers and as a beat-'em-up - a genre that enjoys widespread appeal - it is bound to sell by the truck load. Rise of the Robots has the advantage of being a multi-format launch and 'word of mouth' is a powerful selling tool. So it's unlikely that there



is anyone in the games world that won't have heard of this title And such futuristic graphics will prove popular. Mirage boasts that Rise is the "first game with a fully rendered, morphing character" and the 'first game with film quality controllable 3D graphics."



Okay, with such hype and spectacular graphics it is bound to make it a firm fave with games buyers this Christmas - let's hope it justifies this with top playability as

The Lion King



laboration is bringing out two Amiga releases this Winter. One is Aladdin, the other is The Lion



King - Disney's latest animation based around a Lion Cub who is forced into the wilderness and finds refuge with Pumbaa the warthog

and Timon the Meerkat. Already raking it in at the Box Office.

Disney's The Lion King will have won an a receptive audience for Virgin's game license. If we were talking consoles here then quite possibly we'd bill it as a huge hit, but the discerning Amiga owner demands more than just pretty graphics. It is likely to be a favourite with many younger players though, but as a platformer its popularity may just be limited to the younger end of the market.

Cannon Fodder 2

and airsnips – all of which can be found in their appropri ate themed levels such as Medieval. Reirut. Chicago and

Alien Ships.

The Sensible Software bunch have built up a good represented for quality software so with their name stampe on the box and with the original



ookies

Dreamweb



only need take a look at the film industry puter via Empire's new adventure game. Oh yes, and by slapping an 18 warning

sticker on it saying: "contains scenes of sex and graphic violence," what better selling point could you get than

Empire's risqué adventure received a storming 90 per cent last issue when System hailed it as "oozing class out of every digital pore." However, we're talking Christmas number ones here, so it's unlikely that any doting parent will go out and buy this for their precious offspring. It's going to be a good game but it's unlikely to make the number one spot because, admittedly, it's not everyone's cup of tea.



Plenty of hype and make Rise of the Robots

FIFA Soccer

Appearing on many major formats, FIFA Soccer was met with great critical acclaim. Now set for the Amiga for the run up to Christmas, will it really be spot on goal this season?

It has been well received on its console counterparts but can it kick it on the Amiga. Let's hope so. Because how much more disappointment can Amiga owners take on the football sim front?

I mean, look at all the build up we had to the World Cup. Plagued by press release after press release, we were told of these new and fantastic games that were soon to hit our shelves... and what happened? They turned out to be emptier than a politician's promise.

Kick Off 3 was a reasonable enough effort but nowhere near as good as console versions, World Cup USA '94 was abysmal, Wembley Soccer was bordering heavily on average, and Sierra Soccer was impressive until you compared it to greats like Goal! and Sensi, so

against the son of Sensi, so can it really see off the competition?

let's hope FIFA will be a faithful FIFA is a strong title but it's up

Sensible World of Soccer

To say Sensible Soccer was immensely popular would be an understatement. For many, this was the definitive footy sim and now it's spawning a sequel. Sensible World of Soccer is widening its appeal by adding a whole new chunk of management action.

Real players add an authentic touch to the game with accuteams and 22,000 real players, it's every footy fans dream come truel And yes, it has the advantage of everyone knowing what to

expect from the playability. No nasty surprises there! Just tonnes more gameplay and realism. It also has the advantage of being a sports game - always an immensely sequel is long over due and there are anxious to get their hands on the suc-

cessor to this classic.





After transporting himself into someone else's body, our hero checks out a church in darkest Medieval England



0000

system o



and Soccer Kid, the world's best Rotherham-bases

software house returns with an RPG. Jonathan Maddo

tend to harp on about this next subject rather a lot, but I feel that it needs to be instilled in people's brains as often as possible. Everyone likes superb ray-traced 3D graphics combined with stereophonic sound, but there is no point in having them if the product doesn't have reasonable amounts of playability, gameplay and, most importantly, originally superbased and the product of the prod

Most software houses tend to forget about the latter features and simply concentrate on presentation, but there is, at least, one company out there which always seems, to get the combination just right.

Krisalis, a software house based in Rotherham, has built itself up over the years from small beginnings to compete with the big boys of the software industry. You only have to look through its back catalogue of games to see how many times the aforementioned combination pops up.

Shadow Worlds, Sabre Team, Arabian Knights, Manchester United Premier League Champiors and the hugely popular Soccer Kid are just a handful of examples of Krisalis' astute eye for spotting and producing top quality games.

top quality games.

Not surprisingly, Krisalis havs got another Amiga product on the way and by the looks of things it could well be its best release to date. The latest offering,

entitled Legends, is unbelievably huge. It contains four quests, loads of characters to interact with and plenty of other fascinating features dotted all over the place. From what System has seen in an early version of the game, it looks like Legends could well be one to watch out for in 1995. The advenure is played.

from a forced 3D first-person perspective and yes, it does look very similar in many respects to the enormously popular Zelda, which delighted Mintendo owners everywhere with its superb gameplay and dangerous addiction levels.

The comparison is just, but if you look at it properly it isn't such a bad thing. There has never been a game of this genre on the Amiga as far as I can tell, and I don't know why somened idn't think of the idea sooner. The project has been

designed and created by the same developers who were responsible for the truly excellent Sabre Team. The team has worked on it solidly for two years and that means a lot of time has been sperit on line details and the quest to get the playsibility and gameplay spoton. To give you a better grasp of what Legends is about,

all you have to do is sit back and listen to the story



Wandering across the lands you stumble across a cottage which comes complete with a bridge and a delightful English country garden...

behind the game.

Set in the future, you find out that Earth has been an alien experiment all along and now the aliens have decided that our planet is too peaceful. They want to alter the course of time and thus disrupt the future.

alter the course of time and thus oisrupt the ruture.

The best way to do this is to provide inhabitants from key periods of time with sophisticated weaponry. Now tooled up to the teeth, humans from the past are tempted to wreak havoc, death and destruction upon everybody on the planet. This will, hopefully, lead to a

The aliens zapped back the hi-tech equipment and weapons to the Ancient Egyptians, the Wild West, the people of Medieval England and the settlers that inhabited China around the time of Confusious.

You play the hero in Legends and it just so happens that you have mistakenly stumbled upon the alien's plot and have decided that you should save the human race. Being a clever kind of geezer, you quickly con-

Legends?

here do good games come from? From the minds of the developers, that's where! The geezers sponsible for Krisalis' forthcoming RPG, despite being certifiably insane, have all got good backounds in the world of computer game creation. Programmer Richard Teather has previously done work on James Pond and played a major hand in

Programmer Richard Teather has previously done work on Juniery not man by the de elevelopment of Krisalis' Sabre Feam. One of Legends most outstanding features is the quality of e graphics. A three-man team consisting of Phil Hackney, Mark Edwards and Mark Potente are sponsible for the pixels and sprites you see in Legend. The properties are consistent of the Phil takes care of all the character animation, Mark Edwards creates all the level backdrops and

ass designed the introduction sequence, while Mark Potente handles everything else.

Judging by the answers they gave me (none of them printable) when I asked for a bit of backpround, Krisalis has got its hands full with a team that belongs in an loony asylum never mind a soft

Legends? I think it's more than likely.



ends



buildings dotted around the huge levels in Legends can all be entered and thus you can search for important objects

Have a good look around the graveyard. There might be an item hidden within to help you progress further along on your guest

The Wild West and you start off in front of a tepee. Why? It's because you find yourself trapped inside the body of an Indian

struct a time-machine which doesn't physically send you back through time, but instead sends your spirit and mind into one of the natives of the time period.

To get anywhere in the game you must first undertake various smaller quests. You must help out the other natives to gain favours in return. These quests can be anything from clearing up weeds to becoming a part-time odd-job man. For every task you complete you will be awarded with a useful object that will be required later on to complete either the level or the game.

X-HEAD

Each of the levels is well-thought out and the various sub-games and quests are looking good, although a lot of them are still to be added. Legends has got cartoon-like graphics, but don't think for one minute that it's aimed at kids because the various puzzles will tax even the most experienced gamers. but not so much that you'll slam the game down in disgust. Graphically, Legends is really rather good and looking at them, these screenshots don't seem to do the game much justice. Considering the size of the product, it almost seems that Krisalis has achieved the impossible by cramming four different distinctive graphical styles into one game. Most people would be happy with a game set in just one scenario, but once more it seems that Krisalis is one step ahead of the prome its seems that Krisalis is one step ahead of the distinction.

Even at this early stage, Krisalis' RPG looks like being a winner when it arrives sometime early next year. I have whinged and whined over the years that there isn't an Amiga game on the market with the right combination of playability, originality and presentation.

Now, thanks to Krisalis, it looks like I might, at long last, be able to achieve that dream, but I'll find out for sure when the game arrives early next year.



The reason behind your first quest is explained. You are the son of the Indian Chief and you must go on your journey to manhood



Egypt, one of the levels that is still quite a way off completion, but as you can see it's starting to look quite good



You can enter the various Pyramids, but you'll have to be careful because they're full of enemies, traps and puzzles that'll tax your brain



Because all the levels are massive, it helps to have a map with you and this it what it looks like when you use it



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PostScript etc. You won't recognise your printer! (Normally a stand alone product.) Professional conversion of IFF24, PCX24, HAM & HAM8 to 256 colours (state of the art colour

quantization and remapping algorithms). The result is very hard to distinguish from that of an expensive 24-Bit display. A HAM and HAM8 viewer is active during colour reduction.

Loading of files through Amiga DataTypes (JPEG, BMP etc.) Workbench Application Icon (Drag and Drop).

A collection of third-party utilities, including colour fonts, new HP Deskjet printer drivers (up to four inks, jointly developed by Cloanto and Commodore) and JPEG DataType, which can be automatically installed to the hard disk.

4-BIT PRINTING

PERSONAL **FONT VERSION 2.0** The Personal Fonts Maker is the best bitmapped fonts editor for the Amiga. It is used by enthusiasts and professionals

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Personal Write is a very usable, fast and affordable Amiga word processor. Its features include: multiple text windows, mail merge, data compression (to save disk space), encryption of confidential texts, printer spooler, PostScript driver, etc. Ideal as a first word processor, its original and powerful text processing capabilities make it an invaluable companion to any software.

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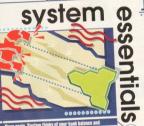




Prepare for combat as the colone gives you your pre-mission briefing



ting the right armament



Superfroq

Yes, it's a platformer with a cute frog in the main role is there any species of animal they won't get tarted up. with cartoon graphics to make the next platformer look different ? I just can't wait for Arnie the Amoeba or Mickey Microbe to make their screen debut.

Never mind, because at least Team 17's effort is one of the best in the genre and it's now available for the CD32. It shamelessy follows the evil witch-dangerous er: Team 17





clichés, but when it comes to gameplay this one's got a lot to offer. All the usual features are

there: creatures to squash, power-ups (this time its bottles of lucozade), fruit bonuses and so on. The graphics are colourful and detailed, and the squelchy sounds as you flatten

enemy creatures has a certain charm. Whereas most platformers require the hero to travel mainly in one direction, the layout of levels in

Superfrog are less predictable. Finding the exit often involves negotiating your way through underground caverns or leaping

Another small but wel-A screen from Eric come difference is the option to gamble credits tells the Superfrog story

Gunship 2000

Microprose has always been respected for the playability of its simulators, even when the graphic weren't much to write home about. However, though it's no TFX, Gurship 2000 went a long way to combining sim accuracy with slick graphics. With a choice of helicopters, including the Apache and the Comanche. Gunship 2000

gives you a taste of what flying the most advanced chopper technology is like. With fullblown war campaigns ahead of you, your tactical and piloting skills will be tested to the limit. Attention to detail in the game doesn't start and stop in the cockpit. Every effort has been made to create an authentic atmosphere, with realistic head-quarter scenes and briefings being important parts of each mission.

As you would expect these days, there are plenty of missions to choose from. What helps to give a greater sense of realism, however, is the fact that mission objectives are often on the move and must be intercepted. This is more satisfying than taking on the traditional static installations. Another good touch is the inclusion of a co-pilotigunner who, if you wish, will fire your weapons, chaff and flares. This is certainly a bonus for the beginner who will be struggling with umpteen keys as it is

The 3D landscape is quite well detailed and there are more than the average number of views to choose from, so you can watch yourself disintegrate from just about any angle. As far as the sound is concerned, there's war film-style music and reasonable explosions, gunfire and whirring chopper blades; on the downside, I hope "our boys" don't have to cope with the grating electronic voice that warns you of impending doom

Gunship 2000 should keep sim enthusiasts absorbed for a long time since you shape a in this game. career for your pilots. Incentives for good work include promotion, battlefield commissions and decorations, but if you step out of line you can expect a reprimand on your

report that will hold you back it's certainly not a game for everyone. Realism is so high that starting the engine looked a dauntingly complicated procedure. But if your looking for a challenge with depth and durability, then this has got to be a good bet.



wrts: A500 , A600, A1200, A2000, A2500, A3000 mmended: 68070

earned during the game on a fruit machine at the end real life, but if fortune smiles you can increase your score, win extra lives or get a level password by hitting With four levels to clear on each of the five worlds.

it's not a game that will be completed too quickly. In fact I had to give myself seven lives before I could get a look in at the later screens. The theme for each world varies, with our fearless frog progressing from woodland scenes through haunted houses and beyond.



Shades of Mario as you store of gold





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GUIDE





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Paul Overaa gives us the low-down on how to use function libraries for ARexx programming

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Video 149

 Resident video expert Adam Phillips
 gives an explanation of some of the more confusing jargon on spec lists

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This month Paul Overaa takes a look
 at software that will get you jamming
 with the minimum amount of fuss





Phil South reflects on the problems of getting drawn into the World Wide Web



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Phil South turns psychedelic with a tutorial on coding brain warping programs





Publishing 157

The process of page design is the subject of Ben Pointer's quide this month



System Medical 140

Doctor Nord returns with hints on how to keep your Amiga on-line



Home Video 144

The last of Gary Whiteley's series shows you how to tie the loose ends of your video together



Classifieds 160

Buying, selling or just browsing, all the best Amiga bargains in our dedicated second-hand section ell, it's that time of year again when Santa drops down your when Santa drops down your chimery and there is peace and goodwall to all men high passible exception of Mechi All, And unless Santa has Dought heaps of A1200s very early on, not many people will be receiving one of lonce this Christmas. But that doesn't stop the flood of Amiga based perhipherals from filling the

But that doesn't stop the flood of Amiga-based peripherals from filling the shekers of computer shops up and down the land. However, even if you don't wase up on Christmas morning to find your stocking filled with a PAR card, 68040 accelerator or I GB hard disk, you might want to check out the little pressies your

Aeriga has for you all year round. Presser number one consists of a doubleact called Applicons and Applilindows. These little beauties are there to make life much easier for the busy Amiga user about town. And actually quite a lot of Workbench programs make use of them. For those of you who are reading this and stratching you heads, Applicons and

windows onto which you can drag and

drop other icons. For instance, you can load an icon you want to det into iconflict by going to the Project menu, pulling it down, selecting "Open...", choosing the idea was referred in the requester and then editing it, or you can simply gath the icon you wint for other by cicking on it one with the left mouse button, holding the mouse button down and then dragging the icon into iconflicts menu window = voilal into iconflints menu window = voilal into iconflicts menu window = voilal int

WINDOWS

What's even better is that iconEdit has actually got three AppWindows – the main one as well as the "normal image view" and 'selected image view" – so that if you just want to change your selected icon image simply drag the icon into that window.

simply drag the icon into that window.
However, IconEdit an't the only program to offer AppWindow support. The ASL file requester, which comes as standard with all Amigas with Workbench 2 or higher, also has an AppWindow. If you drag a drive or drawer icon into the file requester it will

automatically use that path.

There are also other bits of PD software that will improve your drag and drop



DiskCopy Failure

Disks in devices Workbench and Work are not of the same size and cannot be copied to

Cancel

See what happens when you try to fit a quart into a pint pot!

Try opening a window and drapping the icon in there instead

capabilities such as KingCon v1.1. KingCon replaces the CON: device which the Shell uses with its own far superior version.

one another.

KingCon offers drag and dropdirectory and file manipulation and a command line history that can be scrolled and even saved as a text file and file name completion. Simply type the first letters of your command or directory name and KingCon will either complete the name or give you a requester with a list of files that start with the same

characters.

Another useful piece of AppWindow supporting software for Workbench 3 users is Swazinfo which replaces the Workbench Information command.

One of Swazinfo's Improvements over the standard information window is the AppWindow representing the Kom which is having information given about it. If you want to change the appearance of this icon you can simply drag a different icon into this window and Swazinfo will

This is very useful if you have old 1.3style drawers on your system that you want to replace. Swazinfo's tooltypes

area is also an AppWindow and when you drag another icon into this window its tooltypes will be appended to those of the icon that information is being given about.

If you use ToolManager or ToolsDaemon you will find it much easier to add new tools if you use their AppWindow facilities to drag new programs into their windows rather than laboriously typing the programs' names

LOADING

Some programs such as ADPYo or DParet 4.5, suc Applicant. These iscens sit on your Westboard sozern and when you drags an control sozern and when you drags an control sozern and when you will be the program of the program of your beginning to the sozern and worstern to blook for a file that would also you too long to locate using the file requester (because you know what the redwors blook site, you can then drag that file's lot on orto the Applican that Opaint, leaves on Westboard.

When you do this two things happen. Firstly, the file will be loaded into DPaint and secondly, you will automatically be put back on DPaint's screen. There are

Worksensh

MARON

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Super Deport

Formitten apper

Formitten appe

A merry host of Applicans from various programs. How festive

Dropping an icon in this window will only replace the normal image.

Dropping an icon in this window will only replace the selected image.

AppWindows galore make loonEdit a much easier program t

Dropping an icon in this window will replace the icon completely.

doctor

Anunne for a game of doctors and nurses? Frank Nord takes up the offer and with stethoscope in hand, checks out the health and wellheing of the Amiga

Those who prepare, dare

One precaution I have taken up lately is to use my trusty copy of DOous to select all the files on a drive with today's date. Even if I have been using my machine that day, it is quite likely I will be able to tell the difference between files newly installed and ones I have been working on

Once DOpus has selected these files. I use it's comment tool to add a comment to the file such as 'This file belongs to TurboProDoodad". This helps me if ever I run out of disk space and want to free some because it means I won't be deleting files I know are used by

Even word processors can now take

advantage of Applican technology

plenty of other PD, shareware and

saying: This icon cannot be dropped here

but then again you might find a new and

big pressie this one, but in case you didn't if you open your hard disk's drawer and AmigaDOS will happily copy the floppy into

It doesn't have to be a floopy disk onto a hard disk either. You can copy RAM disks.

floppy disks and hard disks onto each other size permitting. If you had a large enough hard disk you could even copy a CD-ROM onto it with this method, although it might take a while! (Of course you couldn't go

- - I Dytes [201014. Stack [2010] Bitz D Owner (Chespublic screen name) INSS! Highertial New of Communications

Swazinfo's Icon picture AppWindow makes for easy updating of drawer icons

TurboProDoodad directory itself, but LIBS:, DEVS:, L: and FONTS: are gravevards for files that have no discernible vour program. function, but which you are too scared to delete in case

they are really important. If you don't have DOpus you can do the same thing by

searching through the various directories using a different file manager (what do you mean you don't have a file manager, get one immediatelyll or even the Shell (using List) If, once you have installed the software, it isn't

working properly (or at all), the first thing to try is renaming your WBStartup drawer (remove the W at the starti and reboot. This will ensure you are not running

drive or floppies (if you have the space) by

partition. Then simply move the files back onto the disk you wanted to optimise. This process reorders all the files on the disk so that they are fully optimised and

that your Amiga has in store for you for the coming year, but if you should be lucky enough to hit the jackpot and get-

to optimise onto an empty hard drive

defragments the remaining space So that's some of the nifty little gizmos

happy, trouble-free use

any Commodities that might interfere with the running of

If it works then it quite probably doesn't like one of

your Commodities. So introduce them one at a time. constantly checking to see whether your program is still running. If it isn't the Commodities causing you trouble and the program still doesn't want to run properly, then your first port of call will be SnoopDOS. This will tell you exactly what is being loaded when you run your program, and where the program is looking for it.

If all else fails, it might be worth either asking your dealer for advice or an exchange, but hopefully it won't come to that. Good luck and have a great Christmasl

Amiga Medical Part 1



Time spent in reconaissance...

If your present turns out to be a lump of hardware, whether it be a humble mouse or a huge hard drive, don't rush to fit it to your machine. Unfortunately, people who buy technical presents aren't always as au fait with what they are buying as they need to be, and shops don't tend to be happy about exchanging a grubby mouse with no box and a plug that has been hit with a hammer to try and force it to fit onto your Amiga's mouse port.

So, check the box. Check the instructions. Check everything before you rip the parcel open and chuck its contents at your Amiga. Once you have checked that all is well and this mysterious chunk of metal and plastic is really intended for your model Amioa, open your parcel somewhere well lit and preferably uncarpetted - on a kitchen table perhaps imaking sure the turkey's out of the way first).

Next, if it's something that needs to go inside your machine, a RAM board or hard drive controller perhaps, then earth yourself by touching a radiator pipe or one of the screws on your computer itself. When handling expansion cards, try to hold them by the edges, not touching the chips on the board, and don't touch the pins of the chips sticking through the board. That's not to say that all expansion cards are really fragile and prone to failure, but it is better to be safe rather than sorry

If it's software you've got, the same rules apply initially. Check that the software is for your machine and that it meets your Workbench variation, RAM and disk space requirements before you open it up

Once you've got all the disks out and the instruction manual propped up against your dozing Uncle Albert, all that remains is to install the software (obviously some software isn't going to need installing so just ignore me, see if I care).

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his is the final instalment of our mini "Home Video" series, the one in which we hopefully tie all the loose ends together, get you started on the road to completing your own your raw video footage into a viewable,

But he warned - even though this is the ultimate chapter in the series it is just another garting point on the long and winding road without more ado, lets get on with the rest

of the show. Now that you've completed the shoot and started preparing the graphics I'd better already guessedlj. Yes, that's right, it's time to

Before you recoil in horror at the thought video edit suite, edit controller, broadcastquality genlock, high-specification video monitors and so on take a deep breath and repeat 'Home video can be done on the

Mind you. I'm talking about a fairly slapdash approach with two video decks

If you simply want to intercut graphics with your video images then you could get don't have an A1200), though you'd be better using the A1200's (or modulator's) composite video output if you can. If you use higher-class equipment like Video8 or S-VHS use an Swideo compatible genlock or RGB-

The whole point of editing is to tighten up substandard footage and so on. There's no takes in the can jto borrow some film-making

The final



Tape logging involves sitting down with a pen and paper and running through all the and the order in which it will finally be

edited. If, like most film and video makers you've shot scenes out of order for the sale

Nothing fancy required

As for the video hardware, the minimum requirements can be as simple as two video recorders and two TV sets, though to obtain clean edits from such a setup requires patience, timing and a capability to accept that you won to be able to produce entirely accurate cost - unless you're very jucky!

A better setup would include the two VCEs and monitors along with an A better setup would include the two VCRs and monitors along with a uniga-driven edit controller, such as Gold Disk's Video Director or Scala's Ech 1100 system (which requires Scala MM300), both of which are quite similar i

ourse, it's possible to keep adding to the list and include a third video

of reality as far as domestic video production is concerned.

Regardless of the video setup, much of the process of video editing remain he same. The first essential step is to log your raw footage to pinpoint those ections which will be included and those which will be discarded.

of convenience and to make the most efficient use of your time at each location, order by consulting your script (if you have finish points of the best shots by using the

VCR's tape counter or timer to indicate the beginning and end times of each good shot timings so that you can get an idea of the content and camera angle, therefore helping visualise each shot. For example, you might



By adding a genlock you'll be This cheap solution won't give very accurate results, but with two dome able to overlay captions and graphics on video to spice up video decks you'll at least be able to your productions get a taste of what editing is all about



curtain call

make an entry for each shot along the following lines:

Tape 1 Shot 5 Start: 1358 (if you're using the tape

Fnd: 1369 Description: MS (which means Medium

When you've loaged all the tages you'll not only have a list of shots but you'll also have shot, which can be very beneficial, especially if

Don't forget to fully rewind the rape/s and tape and be aware that the tape counter of a counter on another VCR lunless you're using

Tape logging might seem like a chore miles of tape just to find the shot you need at

Once you've done the log it might be a good idea to jiggle it around to fit the running order of the programme, especially if you can't get it clear in your head - in other words on through the list and collect the shots into the order they'll finally be edited in.

"Post-It" notes and write shot information on

Literary learning

Video editing can be a long, exhausting process which demands attention to detail and a keen eye for continuity. Different kinds of shot can be cut together to evoke various moods, and I'd recommend that you read as many books on video and video editing as possible to get a good aspects of shooting and editing. I've only been able to provide the briefest details bookshop should soon reap its own

setup you have it is always best to start by This is rather like formatting a disk as it

particularly if you will be Insert Editing. If isn't strictly necessary as you'll only be able to genlock you'll need to either record your graphics to tape before editing or, if you're confident of your editing abilities and want to keep the quality up and don't mind a few cable swaps, edit the graphics straight in as

With an edit controller you'll need a couple of compatible VCRs which are capable of being externally controlled - using LANC or infra red control ports with the cheaper editors or serial controls with more evolution editors

Serial control does not come cheap, so I'd advise you to investigate one of the simpler edit controllers if you fancy this method of control. Note that the accuracy of the editing will depend as much on the VCR's frame accuracy as the edit controller, and most ordinary domestic decks won't be able to get reliability Ithat's a fifth of a second in case you're wondering).

Amiga edit controllers usually allow a list of clips to be entered and the edits performed automatically, as long as you bear in mind that source tapes need changing from time to

Video editing is basically an electronic copying process (for technical reasons video tape cannot be cut and spliced like filml which transfers information from the source tape to

Unlike film editing though, copying video material from one machine to another inevitably leads to some quality loss, which is why you should use the best quality tape for both shooting and editing and also use good quality connecting leads between the two edit

If you don't have an edit controller then you'll have to perform the cuts manually usually by lining up both If you want to tapes at the points you wish wipe and mix

to start editing from, putting the record VCR in Pause/Record/Play, the source VCR in Pause/Play and then releasing the pause

buttons simultaneously When the desired video clip has been transferred for edited) the VCRs are stopped manually. It will be difficult to achieve any degree of consistent accuracy this way but it is definitely the cheapest solution, and with a little practice you should be

able to obtain reasonably

By referring to your

pleasing results

The shooting's been done and the extras haup heen added Doug all you need to do is make it nirture perfect. Gary Whiteley shows you how



logging sheets and putting the shots together in order, you'll eventually end up with a finished program. Any required graphics can either be transferred as part of the edit process or genlocked over virten as newfert

Well, that's it for now. My last advice to you is that planning is everything planning the shoot, the edit and the graphics. Get organised, work hard, use some intelligence and you'll probably produce something good. Watch TV and learn from the professionals and above all. keep your eyes and ears open and hope that lady luck is on your side. Happy shooting

Contact me

together into a "paper edit", along with notes

you're just going to be using a simple two VCR edit setup with no edit controller this it's still good practice to black up the first susceptible part to damage - with a signal straight from a video camera with its lens cap on, from a colour bar or video ident VTClockl or with a black DPaint screen.



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АПАПАПАПАПАПАПАПАПАП

exi's function capabilities, as many of you will know, are second to none: Firstly, the language allows the programmer to create their own functions from within a program. Secondly, it allows such definitions to be stored in, and used from, a separate file (as so-calded external)

The language also provides a variety of "builtin" Alexx functions but perhaps the most useful facility for extending the power of the language is the well-defined gateway it provides for the use of custom function libraries written in other

languages.

One such library, called the rexesupport library, has always been supplied as part of the Alexx standard environment inowadays, two

others, resomathilb and resourpilb, are also provided). Before a function library can be used, Afleox must be told that it exists and this is done by adding the name of the birary to Afleox's internal library list. One way to get a library name onto the library list is to use the nable builty program

from a Shell window. This method, however, is not flexible enough for most script use and instead it is normal practice to use ARexcs built-in Add.Libi) function.

The parameters expected by Add.Libi) are the library name, a priority value (assayly 0), an offset

library name, a priority value (usually 0), an offset value that specifies the library's entry point, and a version number – so a bare-bones Addilib() function call takes this form:

call #ddLib(*reassupport.library*,0,-30,0) It is normally a good idea to use the built-in

It is normally a good idea to use the built-in Showi) function to find out if the specified library is already in the AReox library list or not before using AddLib[]. Typical code therefore tends to look more like this:

if "Show('L','rexxsupport,(ibrary')

then call:

AddLib('rexxsapport.Library,0,-30,0)

After the above library adding code has been executed we would be able to use any of the

functions available in the specified library.

The offset value defines the library's entry point relative to the base of the library and a lot of people seem to be curious about the magic number -30 that frequently appears. To cut a

The ARexx librarian

long story short, this stems from the fact that when loaded into memory these Alexx libraries, like the conventional Exec libraries upon which they are built, are set up with a table of addresses called LVO (library vector offset) jump

The entries are all six bytes long and because the table extends downwards from the base of the library in RAM the offsets are always negative displacements relative to the library

The vectors -6, -12, -18, and -24 are always set aside for special purposes. I won't bore you with the exact details of what functions are associated with these LVO values, but the upshot is that the first vector available for real library function use is the next slot above -24, namely -30.

Now for the crunch. Because of the way the ABeav residers process interacts with ABeax style function libraries. It is necessary for each library to provide a "query function" energy point. Normally, designers of such libraries make this function the first real function of their library, so the query function's address usually goes into that first 30 U/O stot.

UALUES

That, to cut a long story short, is why you normally see -30 as the offset parameter. Sell none the wire? Don't worny about it – just make sure you always use whatever value is quoted in the function library's documentation. One of the first things that you should do before using any Aflexx is brary incidentally is to read the associated documentation!

Additional function libraries are also available, both as part of commercial applications packages and from a variety of public domain sources. One such library is the nc_intui library attach gadgets and menus, print text and graphics and do a variety of other tasks. The library does inciderately also provide functions which allow you to set up IDCMP event loops. In order to use the rx_intui library it has to be copied to your LBS. directory. The library also requires the use of Dissident's requester library useful theoreties with properties to

be copied to your LIBS: directory. The library look requires the use of Dissiders' requester library (which therefore also needs to be copied to LIBS.). After of the re, infuti functions, e.g. the IFF file load and save functions, need access to other Dissiders' libraries, but all this is well explained in the documentation.

Jeff Glatt's nc_intui library can be obtained from most PD libraries |Fred Fish disk No.463 and it is an extremely useful library for any aspiring Aftexx coder to have.

With the re_intuil library you'll find the functions are both well behaved and easy to use. It is possible, for exemple, to open a window and print test into a default window on the Workbench screen simply by using the re_intuil GetWindow)! function without any parameters at all

This month's example listing does just that, and providing a non-null window pointer is returned by the GetMindow[] function, another rx_intui library routine, Text[], is used to print some example text into the window.

to print some example user into the window. You'll see that the script includes a basic 'event loop' which uses another ru, intui library function, called WaitMsg||, to collect IDCMP intuition messages from a specified window, it works by identifying the message classes, quitting when a class 0 (CLOSEWINDOW) message is detected.

Event collection is an important topic for Amiga coders and I'll have more to say about this subject next month!







function
ibraries
available to
the ARexx
programmer.
Paul Dueraa
explains the
basic ideas of

how these libraries are used

A simple rx_intui library function test

window-GetWindow(), 100 col a default window on Workbench screen */
if'(windows') them

30 3=20; y=40

acco year call Text('JDST SOME ERRMPLE TEXT', window,s,y) classof /* force entry into loop */ do while class>0 message=WaitMsg(window)

parse var message class f1 f2 end cell EndWindow(window)

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148

ideo equipment, just like computers, in based on highen deternologin and princet usually means three are terms and princet usually means three advantees which may mean the world to a BBC camerams but very little to the videographer newcomer. While many cancorders boast their own set of exclusive features and gimmicis, there are a continuous princet in the continuous promotions are got dress that one on nearly all of them. These form the basic tools essential to any video-mission.

To help you with purchasing decisions or in the understanding of the machine you already have, what follows is a breakdown of the most commonly featured tools.

Camcorders

White balance: Light may appear to be white but varies widely in colour, from the cold buse of a writer sky to the warm end of a condic. Unlike our brain and eyes that automatically compensate for these differences to give us the correct colours, the camcorder needs to be adjusted to balance all the colours being shot so that the camera 'sees'

white, no matter what the source of light.

Camcorders "white balance" in a variety of ways
- some have manual settings for daylight or
tungsten (lights), others use white card to get a
reading off and some balance automatically via a

small white panel built in to the body work.

Once the balance has been done, white objects will indeed appear as white, while the rest of the spectrum is rendered perfectly.

Auto focus: While nothing at the moment is as accurate as human judgement when it comes to manual focusing, there are two automated systems in use that have varying degrees of success. First up is the inflared auto-focus that uses a triangulation system which bounces" an involble light beam from the object in frame. Unfortunately, this system can lead to

frustrating sudden focus changes if there is any camera or object movement beyond the user's control and can be limiting to the kind of shots you can do if the camcorder doesn't have a

View from the inside

manual option. The other system is the TTL (through the lens) image-sensing by a CCD array. Of the two systems, the TTL is less liable to be

Illumination range: Measured in lux, the illumination range describes the amount, from minimum to maximum, of light a camcorder needs to operate.

Usually starting as low as five lux for a candle and moving all the way upto 97-100,000 lux for pure, sunny daylight, a camcorder, depending on the make and technology used, is happiest with as much lighting to the subject as possible, as long as

Obviously, when up in the 100,000 range, most will have difficulties coping with that amount and will need the exposure furned down to avoid "burn out." Some cameras, unfortunately, don't feature a manual exposure—just a propouse—just a probation of settings to flick between. The solution is to fix a nextral density little over the first which reduces the amount of light entering the lens to an accrepable level.

Resolution 400 lines: This number dictates the maximum amount of black and white lines the camcorder can distinguish. The larger the number quoted, the greater the detail in the image. Low-Band cameras using 1476 or Video 8 usually begin at 270 lines where as H-Board equipment achieves over 400 lines, skinn a sharper and more detailed picture (more so with the use of S-connectors).

Flying erase head: Not a David Lynch film louch) but an erase head that is mounted alongside the read/write heads on the spinning head drum. Giving clean cuts, there is no chance of electronic disturbance.

Synchronisation Internal Only. An internal clock governs the scan timing of most camcorders. While this is not a problem when the camera is used by itself. If more outputs are to be mixed together as in a multi-camera set-up, the second and subsequent cameras need a genlock facility, indicated via an external synchrosocket.

LP: One of the most useful features to appear on camcorders and video recorders able is Long Play – this effectively doubles the recording ime of standard tapes. For best results though, try to always shoot in Standard Play because there is a quality loss in LP.

It ain't over...

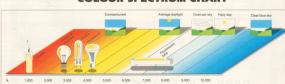
Next month, the spec breakdown continues with a closer look at sound, tape stock, lenses and more. Until then, keep shooting...





With all the technobable present in uideo equipment spec lists, Rdam Phillips cuts through to the bottom line and asks – what does it all mean?

COLOUR SPECTRUM CHART



Colour temperature is the temperature to which a material must be heated to produce the light of a particular colour. The chart, measured in Keivin (K), shows the range of differing light sources affecting video and the subsequent colours they produce. This is important whem mixing daylight with any source of artificial light.

NEW GENLOCK FROM RENDALE

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CARTRIDGE - NEW 'NK MAGIC' PERN'T HEAD RECOVERY

idi sequencers, by offering multi-track recording and sophisticated editing make it possible for the would-be musician to build reasonable song arrangements fairly easily. Trouble is, you still need to be able to work out and play melodies, chords, bass line and drum parts and, as many of you have doubtless found out, this is not always plain sailing.

Although working out single finger melodies on a keyboard is usually easy enough, finding suitable chords or creating drum patterns are just two of the areas where things can get tricky

Life does admittedly get easier as you move down the Midi-sequencing mad because you build up collections of drum patterns and so on that can often he reused. One ontion, however, that is available right from the start is to make deliberate use of ready-made song material

Many companies for example provide libraries of drum tracks in Midi file form. Alternatively, drum tracks can be recorded using the built-in pre-set powerful option became reality for Amiga users when Blue Ribbon Soundwork's SuperIAM program

Given a small amount of guidance, this excellent program can create complete musical arrangements for up to six different instruments, including those usually all-important bass, drum and keyboard tracks.

SuperJAM's music styles are composed of a series of stored patterns which define the riffs, fills, variations and breaks for each of the SuperJAM band players.

A large number of different styles ranging from country and pop/rock to classical and jazz compositions are provided and it is also possible to create new styles, although this is a more advanced area that few Amiga musicians seem to have



program really can produce excellent

Taking the easy way out

ST PUN TK NAME ST PUN TK NAME ST PUN TK NAME ST PUN REGGAEL.MID REGGAE2.MID REGGAES HID REGGAES.MID File RESSRES Drawer Keep on Drummin': REGGAT Parent | Change Volume

Ready-made drum tracks can be loaded into a sequencer and embellished by recording extra drums over them

experimented with. The mechanics of creating a SuperIAM song arrangement are essentially the same whether you are using Midi or not, although the Midi user does initially have a bit more setting

Each SuperJAM instrument can be set individually for either internal sound or Midi use and once Midi output for a particular instrument has been selected. the basic assignments for channel number and patch number iprogram change command) need to be made.

SFLECTION

This simply involves clicking on the appropriate channel or patch gadget and selecting a suitable value. Most Midi users will also need to edit the

default drum map because SuperJAM comes set up for a Roland MT-32 drum-note assignment scheme.

Jamming the SuperJAM

SuperJAM is of immense value as an arrangement tool but there are also an in number of related uses as well. If, for instance, the program was heard to be playing particularly interesting drum parts, it is possible to mute the other instruments an write out a few bars of the isolated drum data as a Midl file. n Midl file data (e.g. most sequencer programs). Similarly, with SuperJAM generate ines or plano riffs, if you like certain riffs then just isolate and export them fo

IIITLE bit – use ready-made or SuperJAM generated sequences but add your own "creative mbellithments" to them as and when you see fit.

It may surprise you but the results of this type of computer-assisted song arranging car as good that many perfectly competent, but bury, musicians use the same approaches as in order to save time!

musician would in that songs can be created by linking named sections of music together. The first step in creating an arrangement then is to decide on how you wish to split up the song. For popular music, that usually means identifying the verses and choruses that are present and perhaps deciding roughly on an appropriate overall pattern. You

might, for instance, decide on this type of format: Intro, Verse, Chorus, Verse, Chorus, Verse, In this case we'd be looking to create at least four different types of SuperJAM sections - an intro, a

verse, a chorus and an end unit (we might in fact create more than one verse or chorus in order to Sketching out and editing sections of chords could not be easier. If you make a mistake and enter a

wrong chard, just click on the section window's erase gadget and then touch the chord you want to remove. If you put a chord or a fill directive in the wrong place SuperJAM has a special 'hand' gadget which allows you to pick up the objects and move

You can also change the key of all the work you've put into a section by using the up/down key transposition gadgets. Once sections have been created, SuperJAM's song window allows you to link the individual fragments together to create the

It is as well to be aware of the two primary options available for transferring SuperJAM compositions to other software packages: Firstly, if you have an Amiga-based sequencer and another Amiga machine then SuperJAM's Midi output can be recorded in real-time. Secondly, SuperJAM provides an option for saving its output data as a Standard





lf unu find hard work might be better off cheating, as Paul Oueraa

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	1	Description and the control of the c	Section May 12 (1) 1 (1)	SCALES TO SERVICE TO S	Comment	200	A CONTROLLED AND ADMINISTRATION OF THE PROPERTY OF THE PROPERT

know I recently told you about World Wide Web and Mosaic, and waxed Internet access. Well, it takes a big man to admit he made a mistake, but I did.

Wide Web these days, and you know what? I'm getting heartily sick and tired of it all. What are they going on about? I've been talking about WWW for ages and nobody paid a hind bit of notice, and then just when I'm losing interest everyone's talking about it.

Of course now it's trendy, that's why, and WWW client software like Mosaic has made it attractive to use as well as fashionable. Companies are falling over themselves to get WWW pages on Net servers, and other companies are falling over themselves to sell

these other companies space on their machines. Something smells fishy, but I can't out my finger Wait, the reasons this is all out of whack are

historical. The basic thing is that the Net wasn't designed to be used by normal people like you and I. It was designed originally in the paranoid

Later it became a system used by academics Line of horror

answel for mere mortals.

Anyone with full Net access, lease lines and a UNIX box the size of a fridg next to their desk, sure go ahead, fill you boots with WWW. But if you're thinkin that Mosak and WWW will be the answe to all your dreams, forget It. WWW is.

World wide wubbish

Universities to distribute software and discuss issues arising from their work. Then other hackers became interested in gaining access, and the system you and I use to access the Net, became prevalent.

But what separates us from the archaeology, and scientists working Net access or their phone bill. The fact that WMAV is slow and expensive for very little benefit context, it could take all day if the information was worth it. It's even worth it for a bit of fun. But not if

various machines, the idea being that you can access goods and services on the Net. What these companies don't yet realise is that people will soon tire of WWW and head off for better ways of accessing the Net. Gopher, for example, is something which is

excellent in this respect, and it is a much underused system, now that WWW has got its



domainsof the Web

awake and stealing Net bandwidth from the UK

and Europe. Pictures and text take a long time to download into your machine, and even when it's fast, it's still not a patch on a text-only interface. The Net is a slow beast, mainly because of the mind-bending amount of data it has to crunch every minute of every day. Sometimes it can be of formatted pictures and text pages, as yet.





So what happens now?

If you want to know what you should all be using, it's Gopher. As far as getting to resources which contain text, this is the best interface I can think of. You can access the same sort of servers which offer mind-blowing

It's all a bit silly really. I wish there was a sexy windowing client software for gopher, but there doesn't seem to be one for Amiga. I can use the software on my PC, sure, but I'd prefer to use the Amiga, what with its nice multitasking OS and all that, it would mean, of course, that I could chase URLs all over the world and still use my word processor. Have any of you seen any such software for Amiga? I hope so.

If you run a really good 386 emulation on your Amiga, then the ways software, which by definition is much more widespread. Whether we like it or not. Amiga PD software for certain niche tasks like comms can be fairly limited in scope, appeal and quality, and often so full of bugs it feels like a biker's beard. PC stuff, due to the larger market for such niche software, is usually more

stable II did say usually and easier to come by. I hate this, but it's true. I just spent a week working in an office with PCs installed, working on a network with a UNIX server, and some of the comms software you can get for UNIX

and PC is amazing. It makes some of the Net software we have look pretty sick. Are there any coders out there who want to make some really cool Net software, something that works like Mosaic but has an interface like Lightwave? How about Net software which not only looks like Lightwave but uses the Picasso II (or other RTG card) to show Jpeg files, and plays back AU and AFF sound files. Now that I would like to see (and hear) If you have any hints and tips, any URLs you'd recommend, any software

you've found particularly beneficial, then why not drop me a line: Comms Section, Amiga Computing, Europa House, Adlington Park, Macclesfield SK10 4NP.

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You play the part of the 3-salest filly Good Golf, who wants to get to the other side of the river
You play the pasts is general. In order to get there you must cross a number of bridges, each with a
where the grass is general. In order to get there you must cross a number of bridges, each with a
makent with Sale passage will depend on your attender to a set of graded, reasoning questions.

TIDY THE HOUSE, Ages 5-9

A first adventure game, set in the familiar territory of an unitary bouse, where the player must get their ownger brether and state ready to go out and do a bit of styling up at the same time. The agent halfs deeplot reading and lary-board skills, plus logical thought and planning.

**TIME PLIS. Ages 5-13

Inflormance of the day, knowing you to day at the Watch Dag. His easy to look to the plant of great and for the day, knowing you to day at the Watch Dag. His a pay to look to great you have been some down to the longer. It is a pay the large time problems, they shouldn't be too much whole, you are to pay or problems on lead of efficiently.

YE MAZE. Ages 8-13 Ye adventure for a highly older age range. You have beliveneded a last, hungry and slightly would, boily viriagon. All you have to do now is to find his hundhour, lead him and from guide home past the distances in a maze of coverns. The game helps develop reading and keyboard home past the distances in a maze of coverns. The game helps develop reading and keyboard

This game is designed for those who have just started fraction work and who are not yet ready to deal with their in purely numerical form. Questions are presented in the form of pictures from which the player must work out a fraction and then answer in either word or number form.

FRACTION GOBLINS. Ages 8-13+
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Tel: 0626 779695 Send SAE for details. Send 50p or disc for demo. Please specify your computer and software in which you are interested. veryone loves warping and morphing, or at least that's what people who make and shink. If I aur he TV on again and see one more morph on an ad I think TR lose my least that a least and the seed of the advanced that a defense and flather defense and flather than the seed of the advanced that a defense and flather than the seed of the seed of

see one more morph on an ad I think I'll lose my lunch. It's a cheap and flashy effect, and it means you don't have to have any ideas, so stick that in your pipe and smoke it. Mr Ad Man. What I'd really like to do is to be able to do werps and morph in the real world, now that would be impressive.

Well now you can thanks to this skilluly crafted prank, which due to a rice little bug in the human brain-to-eye interface allows you to warp real life using this simple Amos Basic program. Simply state at the rotating sprail image for about 20 second or longer, and then quickly look up at a patterned conflorer.

The enjoyable effect only lasts for a short while, but obviously you can recharge your eyes with another glance at the screen. (Also obviously, don't do this for too long at a sitting or you will start to strain the muscles in way eyes.)

The program itself is very simple, but most attractive, and the effect... well, you can judge for yourself how good that is. Right, let's get coding. The quicker we do that, the quicker you can get on with Warping your brain.

epilepsy sufferer, as the strobing effect may cause an attack.)

Okay, so what are we looking at? Firstly, round

Okay, so what are we looking at? Firstly, round up the usual suspects with the screen open command:

Any other business

Anaze m. There are some really codhings you can do with Amas, and it's only down to you thinking up the ideas really. Ether come up with a really coal piece of code to demonstrate what you open. It out to the entire Amas pense, or just really the pense of the conpense of the code of the code of the open. It out to the entire Amas Ethere way, hinks up cometting I would never have thought of in a thousand years. An electric loater simulator, a fish on a bloycle animation, anything, Let's see how creative you are

Amos mind ward

Screen Onen 0.000.256.02.Loures

So we've got a low res screen with 32 colours. Next we set the palette:

which as you will no doubt notice is pretty sharply divided between colours \$FFFF and \$F. Next we do the usual clear screen and flash off stuff:

Cls O Flash Off Ink 1

Okay, fine. As this is the start of a program we need to define some variables:

Co-txP6s+1607P60+125ANGLE1+200ANGLE2+200

Once that is done we can start the program proper. The main bit is a loop. What this does is print a polygon on the screen, rotates it, resizes it and onins it again, and this provides us with a

For ROT=0 To 2000 LTR=TR*ANGLE1+EPOS LSR=SR*ANGLE2+YPOS SR=Sin(ROT) TR=Cos(ROT)

Then we set the ink colour:

basic spiral effect

draw the polygon as it is now:

Polygon IPOS,1POS TO TA*AMGLE1+EPOS,58*AMGLE2+1POS To LTF,LS#



increment the colour, check if it goes over 3, and if it does we start again at 1:

Add CO,1 If CO>3 CO=1 End If

Do the same for the TIM variable, adding to the angle as we go to create the spiral:

If TIM-10 Add ANGLET,-1 Add ANGLEZ,-1 TIM-0 End
If Add TIM,1 If TIM-10 TIM-0 End If Next ROT

Then we close the loop and start the cycle:

Shift Up 1,1,3,1 bs Loop

and then DO-LOOP off into infinity. Once that is done we can stare at the screen and start charging our eyes up for the effect. Many thanks to Malcolm Lawey for his

excellent spiral routine which makes all this brain warping wonderment possible. It wasn't actually what Malcolm had in mind for this program, but I happened to know this was possible from a program I once saw on a University computer – I

program I once saw on a University computer – I think it was called AcidWarp.
It's entirely possible that this is exactly what Malcolm had in mind. I can't say, because I've lost his address. [Send it in again if you read this. Mall



looks at hou
to turn your
brain inside
out, using
only a clean
spatula, a
copy of the
Independent,
and a note
from your
doctor

Write a program It in so the Arms Column. others. This is the category fin most interested in. Toy to make a variation

We've had some really good Amos programs sent in to the Amos Column, but we're getting a bit thin on the ground now, so it's time for another pieze Below are some Amos ideas for you to be working on. Send in your best shots to the address below, and we'll see about printing them.

Comms program

Not as hard as it sounds, although not for the squeamish. Using Liberator might be a bonus.

Picture File Converter
Take a picture from one format and change it to another. Tricky but not impossible

Arcade Conversions

An Amos version of a classic arcade game. You can take your inspiration from any number of generations of the computer game, and this includes classics like Tempest, Defender, Robotron, Gauntlet, and any number of

on the theme, and if you can craim the idea into as few lines as possible. Ilike Azeno Fodereigis For Lines resist then so much the better. Make yeg graphics simple and your listings printable in a magazine, rather than involving a lot of sound samples and pre-drawn graphics. It sounds a lot harder than it is.

Graphics Programs How about a graphics program. Not just a simple paint program, that would

be too easy. How about something which takes graphics drawn with other programs and turns them into something completely different? How about something like an image processing program? Or a 3D

How about something like an image processing program? Or a 3D program? Not the Amos 3D, but a modeller, which can output files in Imagine, Lightwave and field 3D format? That would really be something, Its a really sicky thing to make file conventors. Dut it is possible in Amos, even without the excellent Liberator extension. If you haven't got your Liberator extension yet, then check back to issue 79 (November) for full dictals.) Write stuff

question, or a routine you'd like to share with the world, then please write to Phil South, Arnos Column, Amiga Computing, Europa House, Adington Park, Macclesfield SK10 4NP.

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aving out pages is what most casual users think desktop publishing is all about. Actually, it is just the tip of the iceberg, the visible part. Under the surface there is much more, the foundations upon which the visible part sits. But, as with icebergs, it is the visible part which gets judged and the submerged section is all but forgotten. Out of sight, out of

So although page layout is only a small part of the desktop publishing process, it is without a doubt the most important part. That's not to say that most of your time should be spent in page layout. No way.

You always have to spend time building a strong foundation. But ultimately you will be judged by the appearance of your pages, so special care must be taken with page design

There you on I've said it again Design That's what page layout is all about. Some people have a flair for design, the rest of us have to learn it. and one of the fundamental differences in a design is whether the page layout is symmetrical or asymmetrical. The choice is a profound one.

There is no question of one being better than dogma about symmetry, such people are only feeling of your page will be affected by your choice, and if your document is a book, brochure. magazine - anything that opens and has facing pages - then your "page" as far as symmetry is concerned is the combination of the two pages. or the "spread" as it is known.

The same goes for leaflets. A three-fold leaflet

So the inside of the leaflet, the bit you see only after unfolding it, needs to be considered as one page for symmetry, and while two panels of the back of the leaflet can be considered singulary for symmetry, when unfolded the third panel comes into play and, for symmetry, must be considered in conjunction with the other two panels.

I give you this example so you can see that the symmetry question is not always as simple as it first appears, so you should always think hard about all the faces your document shows to the

Most young designers don't like the options. A picture at top left has to be balanced with a picture at top right for vertical symmetry, bottom left for horizontal symmetry, or bottom right for diagonal symmetry. Three options, no

How to get How to get ahead ahead in business in business

Mixing symmetry and asym (left-hand page) dosen't work Bost to use one or the other as I have here in the

Mirrar rarriM

Facing pages whole when thinking about symmetry, One of the easiest ways asymmetric spread layout is to run a gutter with more on one side than the

there's a lot to be said for symmetry. Normally a symmetrical layout will produce a static, restful design. If the message you want to get across is of a similar nature, then symmetry is a friend

indeed IMAGES

to start an

For example, if you were producing a newsletter intended to pacify a situation on a local housing estate, a symmetrical layout might help to promote an image of the producers of

Some whites and wrongs

One of the great things about the asymmetrical layout is that it allows for a more dynamic use of white space. You should never be afraid of white space; if a page has a white hole on it, never feel obliged to fill it, simply use it to show the contents of the page to greater advantage. Not every column has to be filled with text. So what if it runs short? For heaven's sake don't do the amateurish thing and space the lines out so they fill to the end of that column - all this does is

change the "colour" of the text and will confuse and madden the reader. White space is a tool, just like rules and boxes and pictures and type styles: think about white space in the same way and you will become a better page designer. Never, ever, ever (on pain of being ridiculed) mix symmetry and asymmetry. If one page of your

document is symmetrical, then the whole document should be the same. Don't, for example, produce an asymmetrical document and then slap a symmetric cover or title page on it.

the newsletter being calm and in control. innocuous, safe. Also they are always boring, so

make sure you know what you are doing if you opt for a symmetrical layout. Asymmetrical layours are a free-for-all, which is why most page designers use them most of the time. Asymmetry permits you to express dynamic - not the kind of image you'd want to promote when trying to pacify people, but the

kind of image that gets people going and makes them want to get up and do something Properly designed asymmetrical layouts can also be easier to read, especially if the text is complicated or demanding, because signposts can be positioned to help the reader navigate rules, dropped capitals, panels, pictures, tables,

If you are building up your design skills, then concentrate on asymmetry as it will more than likely enable you to achieve the result you want Symmetry is for experts. Indeed, when the day dawns that you can produce a symmetrical layout that other page designers say looks is time to put up your prices because you will have become a master of your trade

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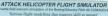
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