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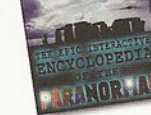
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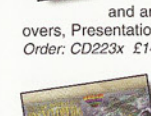
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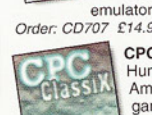
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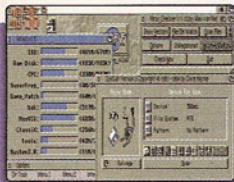
Open Mon - Sat

POSTAGE
 UK: £2.95 per order. Overseas: £5 per order. These prices are effective from 1st May 1999
 Hardware delivery in the UK costs between £5 - £10 (call for price). **Minimum Order £5**
 All items are sold subject to our normal terms and conditions and are subject to availability.
 *Free Software is only offered on Software purchases. (Ask for it when ordering)
 All titles have been tested on A1200 based Amiga's, call for compatibility of A500 etc.
 When ordering please state product code, title and price. A catalogue is sent with all orders.
 KS23 = Compatible with A500/A600/A1200 etc. oem = unboxed etc.
 Cheques and Postal Orders should be made payable to EPIC Marketing.
 When paying by cheque add £3 for extra-speedy clearance. Add £1.50 for insured delivery.
 Credit will be given to all orders placed with us before 1st May 1999.



I.D.A.F.Y. is an essential tool for every Amiga user. It makes light work of de-archiving LHA, ZIP and DMS files. Simply drag and drop any file onto the IDAFY app-icon and it either extracts it, shows it or plays it. It's that simple!

I'LL DO ANYTHING FOR YOU.



Suitable for SCSI and IDE drives.

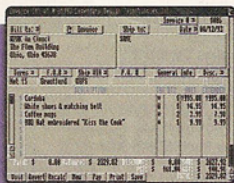
A suite of applications for Harddrive users. Included over 3 disks are a number of useful tools, like **DiskSalv** for repairing and salvaging damaged data, **HDSuite** includes fast HD backup and repair options. Also contains many small but useful HD tools.

HARD DRIVE TOOLS



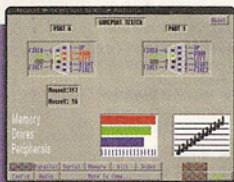
A mammoth collection of over a dozen word games like: **Crossword Maker**, **Word Finder Pro**, **Scrabble**, **The Times Crossword**, **Wordhunt**, **Concentration**, **Hangman**, **SpellTris** - Tetris with words, a **Boggle-Type** game and more.

WORD PUZZLES



Accounts Office offers an easy way to keep track of your finances. Included in the pack is **Easy Accounts** - for small business and home banking, **Pay Advice** - Calculates tax etc and **Invoice it** - A superb tool for creating professional invoices and quotes.

ACCOUNTS OFFICE



Everything you need to do a complete test of all parts of your Amiga. Including ALL ports, Graphics & Sound chips, Memory, Floppy and Hard drive, Keyboard and Expansion boards.

ADVANCED ENGINEERS KIT



A1200 Highly recommended for this title.

A New Workbench Theme Set - **Star Trek**. Includes all you need to give your Workbench the style of Star Trek. Hundreds of icons, over a dozen backdrops and numerous sound clips. It's like being on the Enterprise but with no threat of attack from the Borg.

STAR TREK WORKBENCH



A great pack for anyone wishing to improve their typing skills. Includes 3 skill levels and many different typing games/options, so even the young or "older" person can soon become an expert at typing.

TYPING TUTOR GOLD



Ideal for all Desktop Publishing work, creating business cards, Posters, Invites, Video/CD Covers and more... Includes a powerful but easy to use DTP package. Dozens of distinct clipart images, around 30 font styles and example documents.

PUBLISHER PLUS

All titles advertised on this page are supplied on floppy disk.

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Please make cheques / postal orders payable to Epic Marketing.
Add a total of £1 for P&P within the UK Overseas P&P: £1 per title.



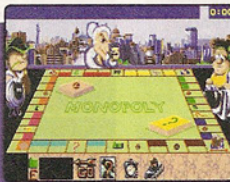
The Complete Beginners Tutorial. Covers all aspects of Workbench from file management to cli/shell commands and how they work, a guide on how to make bootable disks, as well as everything you need to know about Icons, Libraries etc, etc...

AMIGA BEGINNERS GUIDE



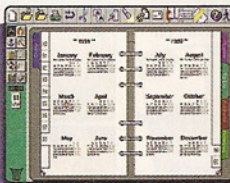
Includes all your favourites: **Solitaire**, **Rummy**, **Craps**, **Pontoon**, **Blackjack**, **Montana**, **Klondike**, **Cribbage**, **Poker**, **Bluemoon**, **Spades** and a host of other games.

CLASSIC CARD GAMES



Includes 2 versions of the classic board game, **Monopoly**. **Deluxe Monopoly** is suitable for use on any Amiga, while **Statistical Monopoly**, a variation on the theme is specifically for use on AGA Amiga's (A1200etc).

DELUXE MONOPOLY



The essential application suite for keeping track of appointments, birthdays etc. It's like having a personal organiser without all the paper. Simply run from the disk or install onto your harddrive. You won't miss an appointment again.

PRO ORGANISER



Workbench 3 Recommended.

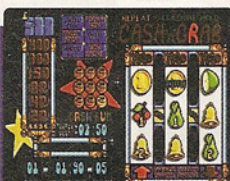
Workbench Enhancer will transform your current Workbench into a super stylish, gadget, all singing, all dancing "PowerBench". The set includes many patches and tools to make your Workbench work for you...

WORKBENCH ENHANCER



Total Arcade features variations of your favourite arcade games. Includes **Pacman**, **Space Invaders**, **Galaxians** and **Asteroids**. **BONUS!** Games: **Defender**, **Frogger**, **Tron** and **Missile Command**.

TOTAL ARCADE!



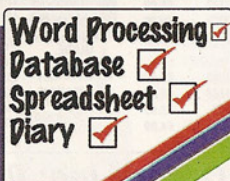
A unique compilation of three impressive fruit machine games. Includes: **Super Nova Fruit Machine**, **Fruit Machine Simulator** and **Professional Fruit Machine Sim**. All the fun of the arcade, but without the risk of losing your money.

FRUIT MACHINE MANIA



Special 8 disk collection of all that is adult related... Includes over 100 stunning images, Adult Stories, Manga pictures, Many games like: **Penthouse Squares** and more. Suitable for adults only. Please state you are over 18 years old when ordering!

ADULTS ONLY!



Home Office Suite includes a powerful **Wordprocessor** with **Spell Checker**. An easy to use **Database**. Great for storing names, addresses or even your CD collection. A very powerful **Spreadsheet**, and an easy to use desktop diary.

HOME OFFICE SUITE

Only £5.00
Order: ABG5-2
Any Amiga

Any 10 for just £5.00

Access - A Cool password program for ya Amiga.
Alt-Tabber - If you know what happens on a Windows-equipped PC when you press Alt-Tab, well you have the exact idea of what Alt-Tabber does.
Amoosd - Plays random soundfile when booting Amiga.
AnalogMouse - Allows you to control your mouse with an analog joystick connected to the joystick port.
AutoRun - Check immediately internal diskdrive and if you insert some DOS diskette, its look For the Auto-StartUp. If the script exists then will be executed.
BeoFile - Tool program that shows your system configuration. The program shows the configuration with Amiga Logo.
CopyProgress - A replacement for Workbench COPY command - this one shows a Progress-bar.
DayTools - Includes DayCopy, DayList, DayMove and DayTools. You can setup a time to perform any of these commands on a regular basis.
DeZero - DeZero is a AmigaDOS 2.x.x DOS util that will change the size of a file to zero, then attempt to delete it.
DirScanner - A very nice and powerful Filefinder.
Features: Nice MUI-GUI, Search by name, size and date.
Matching files can be directly started or viewed.
Doodle - Allows you doodle on your Workbench screen. It has six built in drawing tools and it allows you to use eight colours for both the drawing and background.
DrivePrefs - A small CLI command to change the settings of trackdisk device floppy drives (i.e. normal floppy drives), allowing you to set the head step, settle and calibrate delays, number of retries on a damaged track, and to stop the drive click.
EasyTransfer - Transfers files between an Amiga and IBM using a wire serial NULL modem at up to 115200 bps.
Execuitor1.2 - Executor consists of a selection list from which you can run up to 1000 programs (applications, utilities, tools, scripts, games) with a simple double-click.
Filter - A program that copies files from one source, most likely your hard drive, to disks. Filter does this in an automated, optimizing fashion.
FixMWB - Drop those horrible messed up MWB icons onto the appicon. With any luck they will come out looking normal.
FloatingClock - It is basically a digital clock which sits nicely anywhere on your Workbench screen.
FMS - Useful for creating a floppy-like partition on your harddisk (so you can diskcopy to a floppy) WITHOUT actually having to create a special partition for it.
GuideGen - A utility to generate AmigaGuide databases. It allows you to add and remove nodes, edit each node's text, arrange the nodes order, and create buttons and link them to other nodes, potentially in other files.
HappyDT - This commodity provides a use of datatypes to ALL software like Deluxe Paint, Brilliance, etc...
Iconer - is a small program to use from DOS with programs like Directory Opus. It simply creates / replaces icons.
InfoDrive - Warn or reboot if HD not present upon boot.
JoinSplitter - A program that you can use to split and join files with using a graphical user interface!
KSC TinyTools - 16 Very Small but VERY useful tools.
LastGuru - This program keeps informations about the last software failure and will print out as much information as possible.
MaxMenu - Attractive ToolManager like Startbar. Like Windows.
MoreTools - MoreTools is able to add items to the Workbench "Tools" menu to run programs or execute commands.
Multitool - is a program which provides you with online help for almost any program that you may be using from workbench.
Multirename was spawned from the need to renumber and/or rename files which shared the same base name with numerical extensions.
OverRes - Get 724x566 resolution on a standard CM330/1084s.
PCGamepadAmiga - Describes how to build an adapter for connecting a PC gamepad or joystick to the Amiga and use it as digital joystick.
Physical Disk Repair is a utility to make bad disks re-usable for short term data transfer between computers.
PlayIt - A versatile 8/16bit soundplayer for the Amiga with heaps of options.
Pointers - Eight new Pointers for Workbench.
PrePassWord is Password protection for your HD it will ask for a user name and password on start-up.
QuickGrab - A portable configurable ScreenGrabber.
ReBoot - Auto Reboot after 5 seconds. If the main "system" Partition is not found.
SafeReset - Eliminates many Software Failures after a soft-reset on high spec Amiga's.
SayIt - replaces the Say command. For use with the new narrator device.
Size-Tools - Four small tools for deleting, renaming and copying files by their size.
SleepPointers - Animated Busy Pointers in hires for WB3.0+
SortIt - Sorts ASCII-Files, FAAAAAT!
Swipe - An enhanced version of the DOS delete command. It is able to delete directories with all contents on them by identifying the assign and removing it before the deletion.
TalkMaster - A great speech toy!
TopazPatch - is yet another program that will enable you to use a preferred font in place of topaz font.
Voice_V1.4 - This is a real speech clock. It runs as a commodity, uses little memory, and has some neat features.
Wait-Gui - Replacement for the "Wait" Command of your WB. This one has a Window with a progressbar and some other nice enhancements!
WB-Tidy - A little program that lets you fiddle around with the size and position of your Workbench windows.
Win9KeyboardMap - Windows' 95 Keyboard Keymap.
Win9F - Show volume usage graphically - A graphical version of the 'info' shell command.
XTToolBox - A fast and easy to configure menu for Workbench.
YADI is a small cli/shell program to transfer disk images to and from Amiga devices. Similar to DMS but YADI can also make a dump of a whole hard disk or image of a PC disk etc. So backing-up your HD is a snap!
YetAnotherCalculator - A very simple calculator that supports conversion of HEX, DEC, BIN etc.
ZipMount
Mounts to use PC and Mac formatted IOMEGA ZIP disks with your Amiga. (CrossMAC and CrossDOS needed).

Hot Software

Libraries - The definitive 4 disk set (17-40/1084) £8
Professional Mono Clipart - 10 disk coll. (GF19-10) £10
Softmem - Doubles the available fast memory. (SM53-1) £10
Action Replay (A1200) rip graphics & sounds. (3432) £4
Spectrum Emulator - Includes emulator & 50 games. (SPES-3) £5
Quiz Challenge - General knowledge Quiz. (QUZS-2) £5
CompuGraphic Fonts - 50 Fonts for Wordworth etc. (PSF7-3) £5
Hardware Projects - Hardware hacks for A500. (HWPS-3) £5
Hardware Projects - Hardware hacks for A1200. (HWPS-3) £5
Gourmet Cookbook - Hundreds of recipes. (GCBS-1) £3
3D Garden Designer - Garden Design Layout. (GRN3-1) £3
Font Designer - Plus 5000 fonts. (FNTS-3) £5
Disk Expander - Double your Hard drive space. (EPU4-2) £4
Catalogues - Catalogues CD's, Video's etc. (CTGS-3) £5
Virus Killers - A number of latest detectors (VIPS-3) £5
Star Trek WB - Star Trek Backdrops for Workbench. (STBS-2) £5
Soft AGA - AGA Emulation for A500/A600. (17-4511) £3
AGene 5 - The best family tree database. (17-4056) £3
GameZ - 21 Arcade, Puzzle and Action games. (GTGS-1) £5
Tetris Mania - 5 of the best Tetris Games. (TETS-3) £5
Puzzle Pack - Six mega-addictive puzzle games (PUZS-2) £5
CheatZ - Over 2,000 top tips and cheats for games. (CHTS-2) £5
NibCopy2 - Removes password protection from games? (2605) £3
Lockpick2 - Removes password protection from games? (3410) £3
Maverick Copy - Powerful backup software. (3494) £3
Re-Orig - Powerful Disk Optimiser (Floppy & HD). (4108) £3
Speedy Workbench - Replacement WB loads in 5 seconds. (3916) £5
Windows Bench - Updated WB for A500 (like Win95). (2350) £5
Windows Bench 2 - Win95 style WB for A500/A600. (2479-2) £4

When ordering please quote the items order code, title and price You can order either by Phone, Fax, Email or Post.
Actual screen-shots are shown in most cases. In an effort to continually improve our software packs we reserve the right to change/update software as we see necessary. E&OE
All listed titles have been tested on A500+, A600 & A1200. Although some individual programs may require an A1200.
Phone: 0 1793 432176 Fax: 0 1793 514187 Email: epicmarketing@dialin.net Post: Epic Marketing, BSS House Area50, Cheney Manor Ind. Est. Swindon, Wilts. SN2 2PJ
Call before ordering if you need any advice. Technical Support is available on all our titles.

Month in View

Ben Vost, el presidente del' Amiga Format, personally guides you through the issue (you don't need no steenking batches).

Don't ever buy a Macintosh. At least, don't ever buy a Mac and let someone else look after it. You'll lose your hard drive, you'll lose the contents of the issue so far and the only plus point is the fact that it's quite likely you'll eventually end up with your 604e-powered 7600 replaced by a nice, new G3. Maybe.



Ben Vost
Editor

Due to these Mac problems, we had less time than usual to get our issue to you, but we like to think that it's stuck to the normal high standards, and we've even had time to introduce new ideas, such as this revamped Month in View page, the updated CD and our new Fax-Back service. This was inspired by one of our sister magazines while on an editorial conference where people were amazed that I handled more than 200 emails a day. The vast majority of these come from you, dear readers, and a great number of Future's computing magazines were very surprised that we had such devoted readers, but then they wouldn't understand, would they?

Anyway, we have a superb issue lined up for you this month, and although we didn't manage to get the Melody 1200 or the 75MHz '060 accelerator for the A1200 in time, hopefully my unexpected interview with Doug McLaughlin will help to counter the disappointment you must be feeling. Who's he? Well, if you're online and you don't use *STRICQ*, you're missing out. Yes, I hear you say, but who is he? He's the guy who wrote it, and it's an absolutely superb package, ideal for those of you who want to find friends online.

Look out for our next issue as well when we still hope to have those errant reviews from this month for you, along with a new tutorial and all the news from the chaps at Amiga Inc. regarding the two new operating systems and their plans for the year...



ART EFFECT 3

It's been a long time coming, but Art Effect version 3 can really hold its own against heavyweight paint packages. Now if only they could do something about its stability...

AFCD40

All change! New look CD, new look HTML, new look lots of things, really. Find out why AFCD40 is the best Amiga CD ever made.



POWERPC

Richard Drummond delves into the murky depths of the PowerPC. Is it any good? Has it really got a future on the Amiga? Just wait and see, as our Rich reveals all.



AF NEWS

- 8 WORLD OF AMIGA '99**
Full details on the UK's premier show, including its new location and who will be there.
- 9 AMIGA INC. EXPANDS**
Dr. Rick LeFavre added to Amiga Inc.'s staff.
- 11 VOYAGER 3 DETAILS**
Vaporware's web browser to support JavaScript.

AF REGULARS

- 36 PD SELECT**
A new-look PD section with **Richard Drummond**.
- 40 SUBSCRIPTIONS**
Get AF delivered at ridiculously low prices!
- 60 WORKBENCH**
Aunty **John Kennedy** helps solve your problems.
- 64 AMIGA.NET**
Enrich your browsing with caches and **Dave Cusick**.
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Where to spend your hard-earned cash.
- 90 FREE READER ADS**
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All the details on our brand new Fax-Back service.

AF CREATIVE

- 68 USEFUL AREXX**
Nick Veitch looks at loops.
- 70 BANGING THE METAL**
Simon Goodwin PEEKs and POKEs at your chips.
- 72 HTML**
Imagemaps, explained by **Neil Bothwick**.

AF SERIOUSLY AMIGA

44 ART EFFECT 3

Ben Vost draws your attention to the latest upgrade of the Amiga's answer to *Photoshop*.

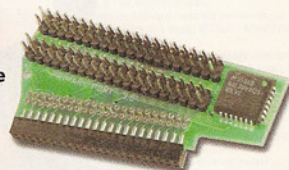
Can this long-awaited upgrade claim the title of best paint package on the Amiga?



47 IDE 4-WAY ADAPTOR

Simon Goodwin finds this new adaptor to be head and shoulders above its competitors.

This tiny, elegant adaptor slots into the Amiga motherboard vertically.



48 PHOTOGENICS 4.0

The second paint package upgrade this month is examined by old master **Nick Veitch**.

One of the impressive new features is the ability to rub through drawings.



52 MSX

Get all nostalgic as **Simon Goodwin** looks at the latest in MSX emulation.

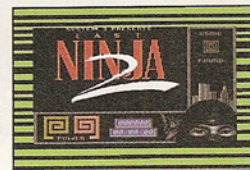
It was all fields around here when *Aleste* was the most popular arcade game...



54 FLASH ROM 2

Over 670Mb of emulation archives on one CD, but is quantity really better than quality?

Play *Last Ninja 2* on your Amiga, with authentic loading stripes.



55 ZIP 250

It's sleeker and offers more storage space, but will it impress **Ben Vost**?

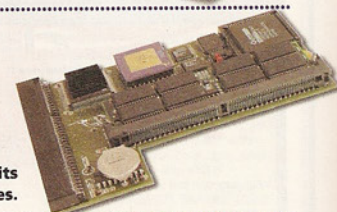
The Zip250 actually looks fairly similar to the original Zip drive.



56 TYPHOON

An A1200 accelerator with an on-board SCSI interface is tested by **Simon Goodwin**.

The Typhoon is exhaustively tested against its current rivals. Find out how it compares.



59 READER REVIEW

Power's 2x CD-ROM drive was well received when it was first released. **Danny Shepherd** takes another look at it.

It still look very sleek and impressive from the outside...



COVER STORY

p14

The PowerPC was supposed to herald a revolution in personal computing, especially on the Amiga. Richard Drummond's in depth report examines why this hasn't happened, what Amiga Inc.'s stance on the PowerPC currently is and looks at what the future might hold.

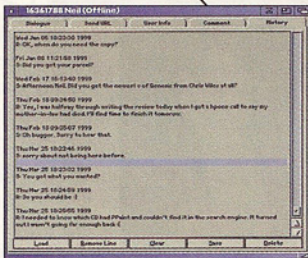


PowerPC

58 STRICQ INTERVIEW

Douglas McLaughlin, the man behind the Amiga ICQ software, talks to Ben Vost.

Chatting on the net made easier, thanks to the STRICQ software.



CD-ROMS

84 AFCD40

Try out Linux on your PPC, play dozens of multitasking WB games and try out VBCC, the free C compiler, plus lots, lots more!



COVERDISKS

80 WB ADD-ONS

Improve the look and performance of your Workbench with this collection of add-ons.



MULTITASK GAMES

An indispensable collection of multitasking games for your Amiga.

SCREENPLAY

PREVIEWS 26

Richard Drummond looks at Phoenix and ACSYS and gives you all the upcoming games news.

HEXEN 28

Better than Doom? Ben Vost finds out.

READER GAMES 30

This month's selection of weird homemade games.

GAMEBUSTERS 32

The quest to uncover all Quake's secrets goes on.



Doom meets roleplaying games in the rather impressive Hexen.



All the latest games news can be found in our Previews section.



AMIGA

THE WORLD OF
AMIGA

WHAT'S UP?

World of Amiga 1999
All the details on the UK's biggest
Amiga show.

Amiga Inc. expansion
Dr. Rick LeFaivre is the latest new
addition to Amiga Inc.'s staff.

PPC for ImageFX
New software expansions planned.

WORLD
NEWS

'99 is on!

Although there hasn't been much notice, it has been confirmed that WoA99 will now take place at the end of July at the Kensington Town Hall in London.

The venue is actually a little larger than the Novotel venue but it will be divided into three rooms. As yet it hasn't been confirmed who will attend, although with Amiga Inc. helping to back the show, it's assumed that they'll not only be showing OS3.5, but possibly even selling it too.

We also anticipate seeing early demos of OS5 and possibly some case designs from the new design company who Amiga Inc. have given the task of making the next generation Amiga look really cool.

Amiga dealers in the UK are excited about the show: "We'll definitely be attending," said Power boss Tony Ianiri. Eyetech's Alan Redhouse said, "We're delighted. These

shows are always an ideal opportunity to meet people and see what's new." Paul LeSurf at Blittersoft said, "We're looking forward to it. We hope to have several new products to show there and the timing's worked out quite well."

With Amiga Inc. helping to back the show, it's assumed that they'll not only be showing OS3.5, but possibly selling it...

Tony Ianiri is so pleased that there's a WoA this year he's wearing a special shirt to celebrate.



AmigaSoc. At the moment, the only confirmed attendees will be user groups from the South East like SEAL, ANT, Kickstart and so on, but it's expected

that more will sign up to take part in the events of the weekend, which will hopefully include a cybercafé and a gaming network.

Amiga Format will, of course, be having a stand at the show and we may well have special things on display to celebrate our 10th birthday issue which will be on sale at the show.

WoA99 is being held at Kensington Town hall which is just across the road from High Street Kensington tube station. The new venue is much brighter than the Novotel and it also has two bars.

The dates are Saturday 24th and Sunday 25th of July. The doors open at 10am and the exhibition closes at 5pm on the Saturday and at 2pm on the Sunday. The cost of admission is £7.50 for adults and £5 for children.

This year the event is being put on by a combination of the efforts of P.B.A Events and AmigaSoc.

You can ring the ticket hotline on 01369 708004 for further details on the show and to order tickets.

Talking heads

What have the Amiga Format staff been doing this month?



Ben Vost
Editor

Bit of a slack time this month, apart from the horror of losing Mark's Mac. Having a well-deserved

week off recharged my batteries to give you my best in this issue and in issues to come.



Richard Drummond
Staff Writer

Despite the long hours I work for *Amiga Format*, I still managed to find the time to

add the finishing touches to the first act of the opera I'm writing, based on the life of Eric the Red.



Mark Wheatley
Prod. Editor

It wasn't my fault! So my Mac blew up and lost half the issue - I never touched it

though! Oh well, apart from that it's been a month of dominoes, new Kit Kats and squirrel luring.



Colin Nightingale
Art Editor

Spend, spend, spend for me as those final demand bills finally got paid off, plus a Greek

summer holiday to look forward to - just enough money left to buy some flip flops and a bucket and spade...

OS3.5 rumours

Some more details were apparently divulged concerning the forthcoming OS3.5 update in a recent posting to the Amiga usenet group, comp.sys.amiga.misc. Since at least half of what you read on c.s.a.misc is best disregarded entirely, the following rumours cannot yet be verified as fact by *Amiga Format*.

INTERNET

Internet support in OS3.5 will come in the shape of a special version of the AWeb browser. The TCP/IP stack will be *Miami* and there will be integrated network support. The email API and a simple client will be from Finale Development, the authors of *ClassAct*, *Voodoo* and *New York*.

WORKBENCH

It will no longer be necessary to use a shift key when selecting more than one icon from the desktop. The submenus of the WB screen will be optimised for better handling

ICONS

Standard and *NewIcons* will be supported. Applcons will support animation. When selected, icons will glow; when dragged they'll become semi-transparent. You'll be able to set the task priority of a program via the Workbench Icon Information function.

POWERPC

WarpUp will be integrated in its latest version. An important part will be the Preferences settings which will complement the integration.

INSTALLER

It will be possible to open the installer on its own screen and you will now be able to go back to a previous step in the installer too.

PRINTERS

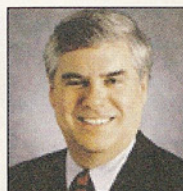
The printer support will be redesigned completely so that 24-bit printing will be possible from Workbench.

New employee at AMIGA INC.

The latest addition to the Amiga Inc. payroll is Dr. Rick LeFaivre. He joined the company in April and is the new Chief Technology Officer, directly responsible for the future direction of all the Amiga technology.

The hiring of Dr. LeFaivre shows Amiga Inc.'s commitment to obtaining staff of the highest calibre. He has had series of high-profile positions in leading technological companies.

Before joining Amiga Inc., Dr. LeFaivre served as Senior Vice President of R&D and Chief Technology Officer for Inprise Corporation, the company formed from the merger of Borland International and Visigenic Software. He was previously Vice President of the Advanced Technology Group at Apple Computer; Senior Vice President of Product Development and Chief Technology Officer for the Computer Curriculum Corporation subsidiary of Viacom, Inc.; Vice President of Engineering for the Network Systems Division at Silicon Graphics Computer



Rick's history is littered with big-name computing companies like these.

Systems; Director of Windows and Graphics Systems at Sun Microsystems; and Director of Computing and Visual Systems Research at Tektronix, Inc.

His responsibilities have included overseeing international R&D centres for Tektronix in Leuven, Belgium, the Apple/ISS joint venture in Singapore and Inprise R&D centres in Singapore and Sydney, Australia.

Dr. LeFaivre received his PhD in computer science from the University of Wisconsin and was formerly a professor at Rutgers University, the State University of New Jersey. He has published computer science literature and has acted as an expert witness in technological matters.



CyberGraphX and Picasso96 will be supported. There will be only one Printer Prefs in the future, which will also have a preview window immediately showing the changed settings.

Is this what we can expect from OS3.5? Only time will tell.



DATATYPES

DataTypes will be reworked, improved and 24-bit capable. New DataTypes will be provided for AIFF, JPEG and GIF. The AmigaGuide DataType will be completely redesigned.

Documentation will be in HTML in German and English.

Back Orders for OS3.5 anyone?

Blittersoft are leaping into the fray with the first offer of back orders of the eagerly-awaited OS3.5 package from Amiga Inc. Anyone willing to put their name on the dotted line today will get the full package on the day of release for only £34.95. As a special incentive, Blittersoft are offering a bundle of *Fusion* and *PCx* for only £15 if ordered at the same time. Remember that you'll need Kickstart 3.1 for OS3.5, but they also do that too...

Continued overleaf →

100 Issues ago

AF24 July 1991

AMIGA FORMAT



We look at what was going on in the Amiga market 100 issues of AF ago...

■ Cover feature: The New Amiga in Your Hands was all about the CDTV. This feature goes into depth about what the implications are for Commodore releasing a CD-based machine and about the A570, the CD drive for an A500 that eventually came out two years late and was too expensive and unwanted.

■ On the disks: Two disks with the full games of *Vaxine* and *Archipelagos*. This was before the ELSPA agreement to ban all full-price games appearing on coverdisks.

■ News: Calls of the 90's pack reduced by £100 to £499, Microway flicker fixer reduced in price from £325 to £125 (and it still wasn't any good), Amiga Centre Scotland animation festival planned and Alternative Image to sell *Real 3D*.

■ Prices: *Digiview Gold*, the premier slow-scan video digitiser. You either needed a greyscale security camera or a video with a very good

pause to get greyscale images, and a colourwheel for the camera to get colour images. This magnificence? Only £149.95 to you squire. Ben actually sold loads of them at HB Marketing...

■ Games reviewed included: *F15 Strike Eagle* (Microprose) 90%, *Switchblade II* (Gremlin Graphics) 70% and *Eye of the Beholder* (US Gold) 92%.

■ Serious products reviewed: First appearance of scoring in the serious section. *3D Construction Set* (Domark) 91%, *Bars and Pipes Pro v1* (Blue Ribbon) 85%, *Wordworth* (Digita) 82%.

■ Notes: *Amiga Format* was two years old and going from strength to strength. We're now nearly 10 years old and still doing fine – a record for a home computing magazine?

■ Pages: 220

■ Cost: £3.95

More PPC software for you

Sticking with the credo which says that the only PPC packages worth doing are for graphics programs, Nova Design are about to unleash PPC versions of some of *ImageFX*'s effects. *PowerStation* is apparently so fast that some beta testers have hit save twice because they didn't realise that the job had already been done, but to get the whole package you'll have to wait for the full release of the software, which should be out at around the time you read this.

PowerStation is designed only for use with the latest version of *ImageFX*, version 3.2, and it offers the following new effects:



Three of the effects you can do much faster with *PowerStation*.

Bubble – Creates multiple bubbles over your selected image. You can control the animation and optional colour of the bubbles easily. Create an undersea effect or even effects like psychedelic champagne bubbles!

Fire – One of *ImageFX*'s most popular effects, Fire can create flickering candle flames, gas-stove flames, raging forest fires and more. All parameters can be animated or controlled through a single slider.

Clouds – Recently added to *ImageFX*, the Clouds effect can create amazing multi-layered

fractal clouds. It can also be used to create fog or smoke over images, simulated explosions or even seamless textures of landscapes with cloud patterns animating across them.

Liquid – This is an endlessly fascinating effect that distorts your image as if it were on water. You can create funhouse mirror distortions or unique video transitions with this effect.

FXForge – Based on the same formulae used in Adobe *Photoshop*'s *Filter Factory* package, *FXForge* can create an infinite number of custom special effects using mathematical formulae. Colour effects, distorting effects and lighting effects are all possible with this amazing engine. It remains fully compatible with the thousands of effects available on the Internet for Adobe's *Filter Factory*.

At the moment there's no direct UK pricing, although you can order directly from Nova Design for only \$79.95 (about fifty quid). Just call them on 001 804 282 1157 or, if you live in the States, on 1 800 IMAGE 69.



Free Java Compiler

RamJam Consultants Ltd. have produced an Amiga version of *Jikes*, IBM's open source Java compiler.

Jikes will compile standard Java source code into optimised Java byte-code which strictly complies to the Java Virtual Machine specification. To develop with *Jikes*, the standard Java classes will be required, such as Sun's *JDK*.

Ramjam Consultants Ltd

To run compiled Java code on an Amiga, a JVM is needed, such as a port of TransVirtual Technologies' *Kaffe* or the soon-to-be-released Amiga-specific *Daytona* from Nordic Global. The Amiga version of *Jikes* also requires the *ixemul.library* to run.

Visit RamJam's website at: <http://www.ramjam.u-net.com/> for more information and to download *Jikes*.

The *Jikes* website can be found at: <http://www.research.ibm.com/jikes/>.

Voyager 3 features announced

Oliver Wagner has at last released some information on the forthcoming update to *Voyager*, Vaporware's Amiga web browser.



Much improved from the last version, *Voyager 3* is just around the corner.

on AGA machines so that images can be stored entirely in fast RAM. Finally, there will be an improved and completely customisable GUI with 'coolbars' and an integrated *Contact Manger* for bookmarks. No release date for *Voyager 3* has been announced.

The single biggest addition to the new *Voyager 3* will be the long-awaited support for JavaScript. *Voyager 3* promises 'the fastest JS implementation in the industry', since it will feature a Javascript compiler which will convert the JS code into a special pseudo-code for execution by a fast interpreter. The Document Object Model to be employed is based on that of Microsoft's *Internet Explorer*.

There's no real news on Java, however. Vapor had intended to use the Merapi JVM from Haage and Partner but that project seems to have been shelved. Oliver Wagner has stated that he now intends to talk to Nordic Global about their recently-announced *Daytona* JVM with a view to producing a Java plug-in for *Voyager*.

Many modifications have also been made to the HTML layout engine. Work is in progress on supporting CSS 1 (Cascading Style Sheets) which 'will most likely be ready in time'.

Other features currently being worked on for *Voyager 3* include a *Shockwave Flash* player plug-in, updated image decoding with support for CGX 4 in-buffer bitmaps and support for *FBlit*



Sabrina offline more like! Eric Schwartz has done the decent thing and got his superb *Sabrina Online* strip (we have a couple every issue in Mailbag) put into print in comic form. The comic is published by United Publications and it costs about £1.45 per issue. It should be on sale at any decent comic shop and it will be listed under United Publications in Diamond's Previews guide. You can reach UP's Martin Dudman at UP@lupin.demon.co.uk or visit the UP website at: <http://www.lupin.demon.co.uk>

Online, in AF and now available from all good comic stores.

Vital Horgan

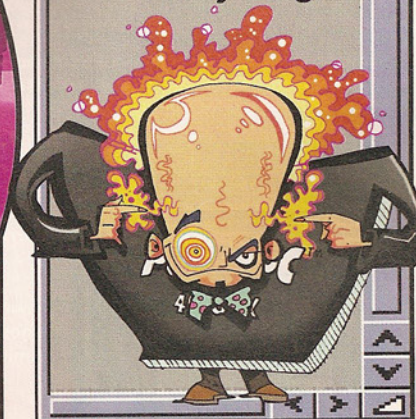


We're now entering a strange chapter in the Amiga saga. Finally, eventually, and contrary to many of our expectations, there are signs of real things happening over at Amiga Inc. There's the news of OS3.5, staff recruitment adverts on the Amiga Inc. website, the QNX announcement and the relocation and reorganisation of Amiga Inc. itself. It all bodes well for the near future - maybe the transition from Classic to Next Generation will come sooner than we thought.

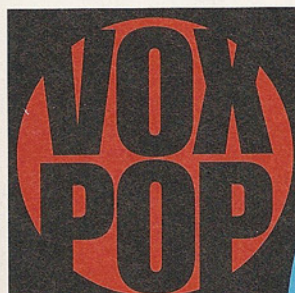
But then all of a sudden we get a rash of G3 and G4 PPC expansions, offering not only the latest CPU performance but also things like USB and Firewire interfacing. Exciting stuff indeed, but is it too little too late? With prices for these cards hovering roughly around the £700 mark, who could avoid thinking how far that would go towards the cost of a Next Generation machine, and whether the cash would be better kept in that biscuit tin under the bed for just a little while longer?

A major factor in resolving that dilemma must be the amount of added productivity one of these expansions will actually deliver. Need I remind you of the crushingly disappointing array of PPC software that has appeared so far? I think it's only fair to assume that things won't change a great deal there so that puts a great deal of importance on the performance of 680x0 emulation. Just how fast they can push our Classics remains to be seen. Still, there's always the USB, fast SCSI and Firewire ports which could give your overall system performance more of a boost than the actual CPU upgrade. Maybe I will get one after all...

Tony Horgan



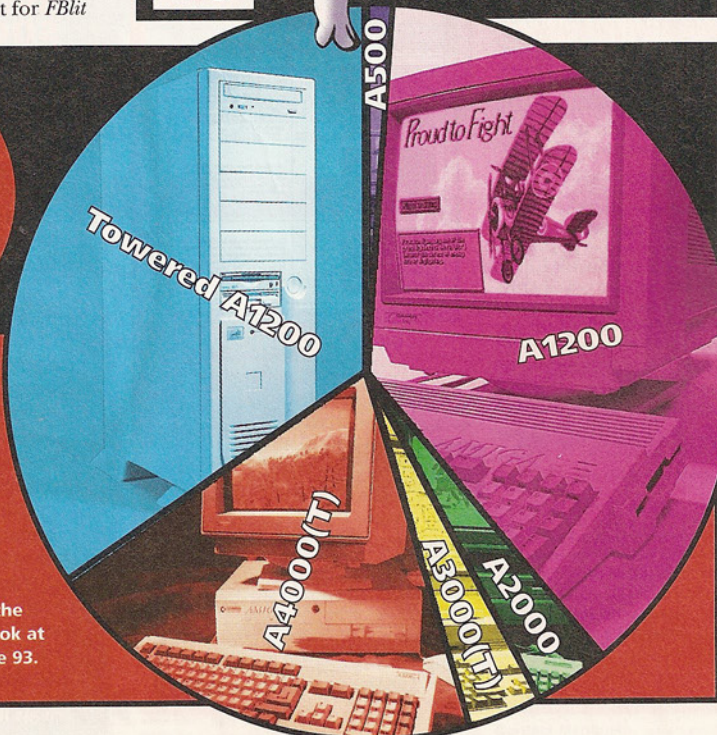
Continued overleaf ➔



We asked the subscribers to the afb mailing list to answer the following simple question:

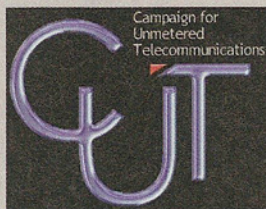
What sort of Amiga do you have?

If you want to take part in the next vox pop, just have a look at the afb information on page 93.



Telecommunications Boycott

The Campaign for Unmetered Telecommunications is holding a "net strike" on Sunday June 6th. Because of the date this story will only be of interest to subscribers, but CUT hope to encourage Internet users in 10 European



countries to unplug their modems and hang up their phones for the whole of that day. This boycott is intended to persuade the European telecommunications companies to introduce flat rate charges for local calls. To join the campaign, take a look at the CUT website at:

<http://www.umetered.org.uk/>

COMPETITION WINNERS

The winners for our recent competitions are as follows:

PRELUDE (AF119)

The winner of a Zorro Prelude card and *Samplitude Opus* is: Jani Kilpilinna, Tampere, Finland. Runners up each receive *Samplitude Opus Lite*: Gerard Volders, Den Anel, Netherlands; Graham Steele, Falkirk, Scotland; W. Van Heeckeren, St. Peters, Australia.

POWER FLYER JUNIOR (AF120)

Five winners each receive a Power Flyer Junior: D. Williamson, South Ronaldsay, Orkney; Graham Burt, Northampton; Paul Rabett, Stoke-On-Trent; P Farrimono, Manchester; Tara Southon, Tunbridge Wells.

ANALOGIC (AF120)

Each person receives an externally-cased SCSI drive: 4.3Gb - M.P. Askey, Burton-On-Trent; 1Gb - T. Burnett, Maryport, Cumbria; 540Mb - E.M. Rawlings, Penketh, Warrington; Stephan Martin, Annezin, France.

Return to Scala

Eyetech have signed a deal to distribute *Scala MM400* in the UK. This version is much improved over the *MM300* given away on *CUT's* coverdisc and in the Amiga Technologies Magic Pack with HD A1200s. It's also now on CD for ease of use. The CD not only contains the full de-dongled *Scala MM400*, it also includes 130Mb of clip art, colour fonts, sample presentations and a fully interactive manual.

Scala MM400 is available from Eyetech from just £59.95. Upgrades from *MM300* are just £39.95 (original *MM300* coverdisc, CD or proof of purchase, or *MM300* registration card required).

You can contact Eyetech by calling 01642 713185.

The latest version of *Scala* looks like being the best yet.



Other news

FREESERVE AND AOL IN LEGAL DISPUTE

Freemove, the free Internet Service Provider owned by the Dixons Group, are taking legal action against rival America Online.

A report in the *Independent* newspaper claimed that the AOL-owned Compuserve had told its customers in the UK that Freemove's free Internet access was only temporary and that users would soon be charged for the service.

Freemove initially raised the issue last December, but an investigation by AOL found no evidence to support Freemove's complaint. A formal writ has been lodged in the High Court but it's likely that a settlement will be made out of court.

USER-FRIENDLY LINUX

Caldera Systems have released *OpenLinux 2.2*. This version of the popular, freely distributable UNIX-like operating system is aimed at novice users. It features easier installation and a friendly GUI based on the K Desktop Environment. This means it can easily be made to act like a familiar Windows, MacOS or BeOS system.

OpenLinux 2.2 ships as a two-CD package for \$50 and includes Corel's *Wordperfect 8* and *StarOffice*, which is StarDivision's *Microsoft Office* challenger. More information is available from the following site: <http://www.calderasystems.com/>.

BEOS 4.5 DUE SOON

BeOS 4.5 is scheduled for release in June. The previously-announced version 4.1 of this multimedia operating system will not now reach the market.

The new version of BeOS promises more and better hardware drivers and will include support for USB and the new PentiumIII.

QUICKTIME TO GO OPEN SOURCE

Apple have announced that its *QuickTime* streaming server will be put in open source domain. This is part of a new drive at Apple, having recently announced that portions of the forthcoming MacOS X would be made open source.

QuickTime 4.0 will allow the live streaming of multimedia data via the Internet. In other words, the content can be played as the file is downloaded. By allowing companies to modify the *QuickTime* server for their own needs, Apple hope to gain acceptance for its technology over rivals like Real Networks.

Net Corner

squirrels in Texas are a lot smarter than those in Massachusetts...

FREE SAMPLES

<http://www.futurenet.com/samplenet/>

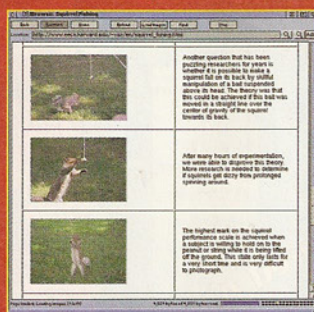
Samplenet is the ultimate sampling resource. It contains news, reviews, tutorials and, best of all, an absolutely enormous collection of royalty-free sound samples.



SQUIRREL FISHING

http://www.eecs.harvard.edu/~yaz/en/squirrel_fishing.html

A rather strange site dedicated to the scientific investigation of Rodent Performance Evaluation. Apparently the



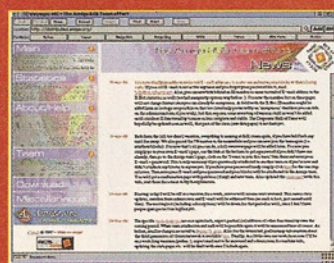
The little furry, furtive fellas are scientifically evaluated online.

AMIGA CODE BREAKING

<http://distributed.amiga.org/>

The Amiga team is currently in sixth place in the challenge to break the RC5-64 code. Why not put your spare CPU cycles to good use and further the Amiga cause?

Left: Samplenet sounds good! Right: You can also get cracking on the RC5-64 code.



netconnect

£49.95



program : netconnect
version : v2.3
format : cd-rom or floppy disks
available : yes
awards : amiga format gold, 96%, cu amiga 94%
 amiga magazin (DE) 85%, amiga plus (DE) 85%

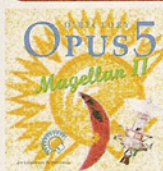
The award-winning NetConnect v2 is the easiest and most comprehensive Internet compilation designed to enable any Amiga user, from novice to expert level, to get onto and use the Internet. By using the new Genesis Wizard, a user should be able to connect to the Internet in a matter of minutes. Containing Genesis, Voyager-NG, Microdot-II, AmIRC, AmFTP, AmTelnet, AmTerm, NetInfo, AmTalk, X-Arc and the Contact Manager. Ideal for both an Internet or local area network connection.

- **Eleven Commercial Programs** - contains the highest quality Internet software, all commercial versions.
- **Truly Integrated** - the beauty of NetConnect v2 is the integration. Contact Manager works with Microdot-II, Voyager, AmIRC and more. Centralised MIME preferences works between all the programs.
- **Flexible Dock Bar** - setup and launch all your software from this advanced and flexible tool bar
- **Aimed Towards Beginners Through to Advanced Users** - NetConnect v2 is simple enough for the beginner to use to connect to the Internet for the first time, but powerful enough for the advanced user who may require a dialup connection and local area network (LAN).

dopus magellan II

new

£49.95



program : dopus magellan II
version : v5.8
format : floppy disks
available : yes
awards : amiga format gold, 95%

Directory Opus Magellan II is a complete Workbench replacement and/or file management based system. Magellan-II offers everything from file management (copy, rename, view, extract etc), dock bar creation (create your own dock bars - to launch programs, commands, scripts), advanced FTP functionality (with asynchronous operation), custom themes (24 bit icons, different backdrops, custom sounds and scripts, improved user and start menus (ala Windows start menus), greater lister functionality (with full drag and drop), custom menus and much more. Magellan-II is indispensable. Once installed and used, you will never want to go back to your 'original' Workbench ever again.

stfax professional

£29.95



program : stfax professional
version : v3.7
format : floppy disks
available : yes
awards : amiga format gold, 95%, cu amiga 95%
 amiga magazin (DE) 89%, Amiga Plus (DE) 96%

STFax Professional is a commercial fax/voice message program which enables you to use your Amiga as a digital answermachine. Send and receive faxes, create a simple or advanced tree based digital answer system for family members, create a fax on demand service, log numbers via caller-ID, call screen or blacklist phone numbers, setup a mini-BBS, use your modem as a telephone, control other programs etc.

- **Full fax modem support (class 1, 2, 2.0)** - fax from your favourite Amiga software
- **Advanced voice capabilities** - use your Amiga as an advanced (or simple) digital answermachine
- **Support for the PACE Solo, 3-Com Message Plus or Kortex Adaptix Independent Operation mode**
- **Mini-BBS** - setup your own small BBS
- **ScanQuix support** - use ScanQuix to directly scan documents from your scanner into STFax!

genesis

£29.95



program : genesis
version : v1.0
format : floppy disks
available : yes
awards :

Genesis is a new TCP/IP stack for the Amiga computer, allowing both dialup Internet access and local area networking, with the advanced facility to run more than one interface at one time (ie. keep your ethernet network connected, whilst putting your dialup connection on and offline - ideal for Siamese users, LAN'ing one or more Amiga's or an Amiga to PC/Unix/etc).

amigawriter

£49.95



program : amigawriter
version : v1.2 (english version)
format : floppy disks
available : yes
awards : amiga magazine (DE) 87% 'very good'.

AmigaWriter is the newest word processor (or word creating) package for the Amiga. Officially ratified by Amiga International, thus supported by the "Powered by Amiga" logo. AmigaWriter contains some unique features for Amiga word processors: platform independent (full support for commercial, shareware or freeware plugins), ease of use (easy selection, true WYSIWYG, very Amiga-like in action), full paragraph control, page formatting, chapter management, support for different image formats and much more. All version 1 users will receive the forthcoming version 2 free of charge (due late 1999).

Delivery Information

S'Ware - £1.00 for UK delivery
 - £3.50 for EU (recorded)
 - £4.00 ROW (recorded)
H'Ware - £6 for UK next day delivery
 (serial cards charged at
 £3 for recorded delivery)

Make cheques/P.O.'s payable to **Active Technologies** and send to the address listed opposite. Credit/debit card payment accepted. For any additional information...

free unlimited internet access

new

There has never been a better time to connect to the Internet - now it is completely free of charge! That's right: no connection fee, no on going service charge (except for your phone bill) and absolutely no hidden costs. We now provide details on how to connect your Amiga to the top three free-of-charge Internet service providers. These provide full connectivity: analogue and digital (ISDN) dialup, free web space (10-15MB), unlimited email addresses, full newsgroup access and more. Buy software or a modem pack from us and get connected, free of charge, immediately. All our packs are supplied with all the information you need to connect to the Internet.



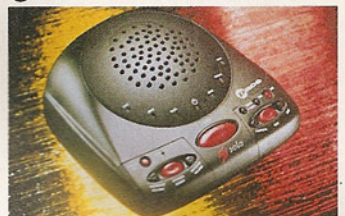
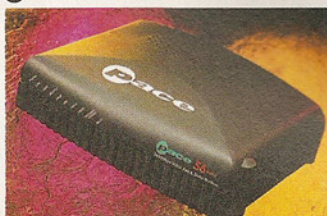
high quality modems

from... £69.95

Choose from three high-quality **branded** modems - the top of the range, award winning PACE 56K the new PACE 'Solo' 56K or the middle of the range Dyalink 'MagicXpress' modem (well built, compact design, same colour as your Amiga). All ship with a five year warranty. The PACE modem's additional features include free lifetime technical support, UK caller ID (only modem available which supports this), a superb speakerphone and volume slider/control. All PACE and Dyalink 'MagicXpress' 56K modems are now v90 shipping ready - the agreed standard for 56K connectivity. Why not treat yourself to the brand new PACE 'Solo'? The 'Solo' can be used standalone from your Amiga. Want to go on holiday but need to receive fax and voice messages, but don't want to leave your Amiga running? The 'Solo' is the answer.

Pace External 56K Modem

Pace 'Solo' 56K Modem



Dyalink 56K External Voice/Fax/Data Modem

PACE 56K External Voice/Fax/Data Modem

PACE 'Solo' 56K External Voice/Fax/Data Modem

£69.95

£119.95

£189.95

modem pack options

from... £79.95

Various money saving packs are available. These are all based on the Dyalink v90 modem. Packs based on PACE 56K or PACE 'Solo' 56K modems available as an additional cost option.

| Code | Pack Contents | £ Prices |
|------|--|----------|
| PK01 | 56K Modem & STFax Professional | £ 79.95 |
| PK02 | 56K Modem & NetConnect | £ 94.95 |
| PK03 | 56K Modem & NetConnect & STFax Professional | £105.95 |
| PK04 | 56K Modem & NetConnect, IOBlix-S, STFax Pro | £129.95 |
| PK05 | 56K Modem & NetConnect, IOBlix IO, STFax Pro | £169.95 |

ADD £40 for a PACE 56K Modem (instead of the Dyalink 56K)

ADD £110 for a PACE 'Solo' 56K Modem (instead of the Dyalink 56K)

DEDUCT £30 for a Hypercom 3+ card (instead of the IOBlix IO card)

- All packs come with **free**, unlimited Internet connection - three options available
- Choose between the CD or Floppy disk version of NetConnect v2 with your modem pack

home highway - ISDN

from... £89.95

With the launch of BT's 'Home Highway', ISDN is now affordable for the home user. Our branded Dyalink 'MagicXpress' terminal adaptor enables you to connect to the Internet at blazingly fast speeds (you need a high speed serial card to use ISDN). Various ISDN packs are available:

| Code | Pack Contents | £ Prices |
|------|---|----------|
| ID01 | External ISDN Terminal Adaptor (TA) | £ 89.95 |
| ID02 | ISDN TA & NetConnect | £114.95 |
| ID03 | ISDN TA & NetConnect & IOBlix-S | £149.95 |
| ID04 | ISDN TA & NetConnect & IOBlix IO zorro card | £179.95 |

- All packs come with **free**, unlimited Internet connection - one option available
- Choose between the CD or Floppy disk version of NetConnect v2 with your modem pack

high speed serial cards

from... £39.95

The new **IOBlix** card offers 4 high speed serial ports and 1 (2nd port option) high speed EPP/ECF parallel port to your zorro based Amiga. The parallel port offers both uni and bi-directional modes offering compatibility for all printers. Parallel ZIP™ driver included. The **IOBlix** also has a modular interface. Two modules are currently being developed: an AHI-compatible sound card and a SANA-1 compatible ethernet card (the **IOBlix-E**, due soon). The **IOBlix A1200-S** offers 1 high speed serial port, the **IOBlix 1200-P** offers 1 high speed parallel port. Both designed for A1200 towers. The new **Hypercom 3+** offers 2 high speed serial ports and 1 high speed uni/bi directional parallel port.

| Model | Machine | Specifications | Price |
|------------|-----------|---|--------|
| IOBlix-S | A1200-T | 1 x 460,800bps highspeed buffered serial port | £39.95 |
| IOBlix-P | A1200-T | 1 x uni/bi 500k bytes/sec parallel port | £39.95 |
| Hypercom3+ | Zorro-2/3 | 2 x 460,800bps highspeed buffered serial ports, 1 x uni/bi 500K parallel port | £69.95 |
| IOBlix | Zorro-2/3 | 4 x 460,800bps highspeed buffered serial ports, 1 x uni/bi 500k parallel port | £89.95 |
| IOBlix-E | Zorro-2/3 | Ethernet module for IOBlix zorro IO card | £ call |

miscellaneous software

Various other individual software titles are available. These titles may be interesting to those not wanting to purchase NetConnect v2.

| | By Disk | By EM |
|--|---------|--------|
| Scalos - workbench replacer with advanced features | £20.00 | £18.00 |
| Voyager Next Generation | £22.00 | £20.00 |
| Microdot-II v1.1 (release) - email and news client | £22.00 | £20.00 |
| AmIRC | £22.00 | £20.00 |
| AmFTP | £20.00 | £18.00 |
| AmTalk | £17.00 | £15.00 |
| X-Arc - system archive management tool (handles lha, lzx and zip archives) | £17.00 | £15.00 |
| Contact Manager - system addressbook, works with many net/comms programs | £12.00 | £10.00 |
| AmTelnet & AmTerm Package Deal | £20.00 | £18.00 |



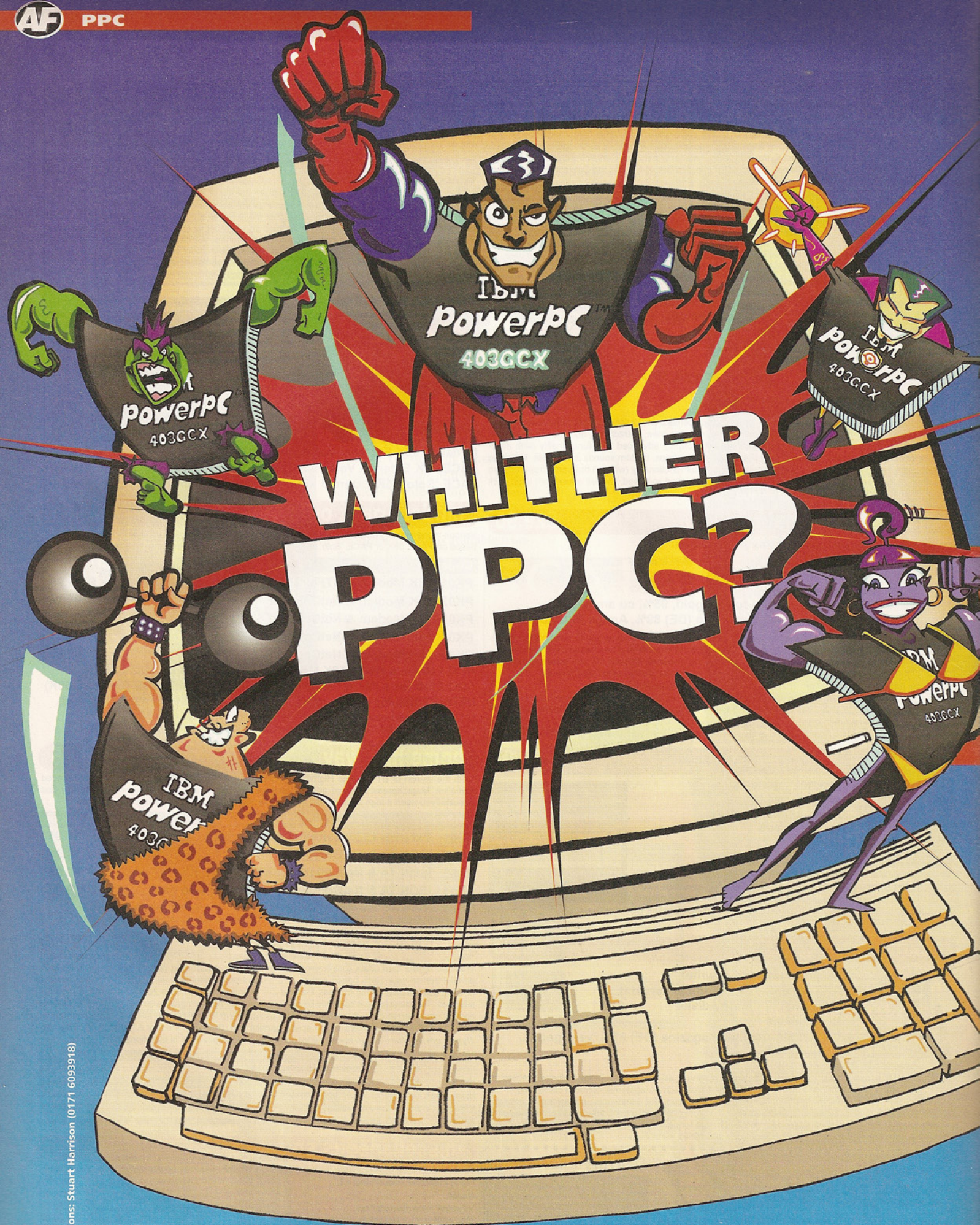
Oval House, 113 Victoria Road, Darlington, DL1 5JH

Tel : 01325 460116

Fax: 01325 460117

E-Mail: sales@active-net.co.uk





Illustrations: Stuart Harrison (0171 6093918)

Apple, IBM and Motorola announced the PowerPC alliance on a largely unsuspecting world in September 1991 with bold slogans such as "MIPs for the masses" and "From palmtops to servers". The plan was for a modern, powerful, cost-effective and scalable microprocessor architecture that would shake up the largely Intel-dominated CPU market.

The Amiga has been endeavouring to climb aboard that bandwagon in the last four years, desperately seeking a shot of clan vital for its ageing hardware. Arguably, neither has yet been entirely successful.

THE GENESIS OF POWERPC

In the early nineties, Apple were evaluating RISC processors, wishing to harness this new power in their desktop machines. They favoured IBM's POWER (Performance Optimised With Enhanced RISC) architecture, an advanced and complex 32-bit, multi-chip processor developed for use in

access, the addition of hardware support for symmetric multiprocessing and making the memory model bi-endian. The architecture was also to make provisions for a 64-bit instruction set which would retain compatibility with the 32-bit set.

The PowerPC initiative was more than just a processor design, though. The PowerPC strategy called for an open architecture capable of running multiple operating systems. The PowerOpen Environment was formulated to permit software to be used transparently between different PPC operating systems and machines. A standard hardware specification, PReP (the PowerPC Reference Platform), was agreed on by IBM and Motorola, and Apple and IBM formed a joint division called Taligent to develop object-orientated OS technology.

The first PowerPC microprocessor was the 601, launched in 1993. This first generation was essentially a bridge between POWER and

production of this range was cut back drastically, a new processor architecture was required if the Amiga was to regain its place at the forefront of personal computing. Today, the PowerPC seems to be the natural choice of heir, but it hasn't always been so.

Before their untimely death, Commodore were working on designs around the Hewlett Packard HP-PA RISC, an earlier, more conservative RISC processor. Others favoured DEC's Alpha, long touted as the world's fastest mass market microprocessor. In fact, rumours persist that DEC themselves, when looking for a worthy operating system for their new chip, approached Commodore with the intention of porting AmigaOS to the Alpha, but Commodore

The **PowerPC** promised a revolution for personal computing in general and for the **Amiga** in particular. **Richard Drummond** asks whether it has or will ever deliver?

IBM's workstations from their earlier pioneering RISC work. After some negotiation, an alliance was formed between Apple, IBM and Motorola to

The CyberStormPPC: currently the most powerful Amiga accelerator around.

“The announcement outraged developers and users alike, both having already committed time and money to the PPC.”

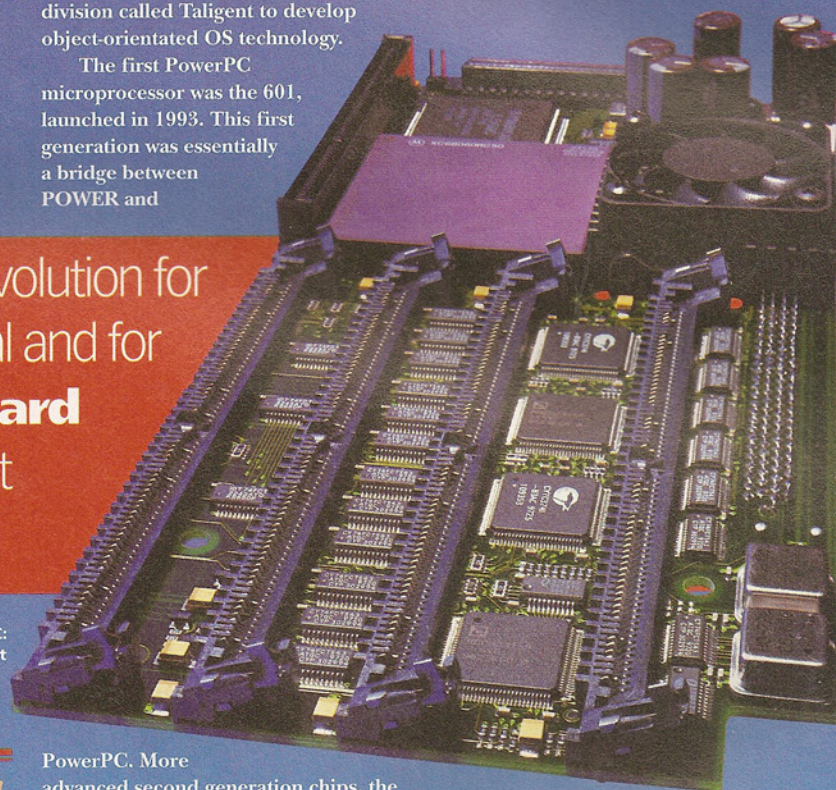
PowerPC. More advanced second generation chips, the 603, 604 and 620 (the first 64-bit PPC) followed later. The revolution seemed to be on course.

THE POWER AMIGA

All Amigas built to date, like the original Apple Macs, have been driven by a Motorola 68K series processor. But when development and volume

refused; another of CBM's blunders. Quikpak, one of the potential owners of the orphaned, post-Escom Amiga, were also keen on the Alpha. Even more recently, Siamese Systems, famous for their Amiga to PC connectivity software, had plans in this

Continued overleaf →



produce a microprocessor version, intended as a successor to both Motorola's 680x0 series and Intel's x86, and the PowerPC was born.

Although the PowerPC was to remain binary compatible with POWER, important changes were made to improve its effectiveness in the market targeted. POWER's instruction set was simplified, partly to reduce size and cost, partly to enable the production of aggressively superscalar designs and partly to shorten the development life cycle. Other modifications included incorporating the bus interface from Motorola's 88000 to permit more flexible memory

RISC VS CISC

There are two ways of making a computer program run faster: either the number of instructions comprising the program can be reduced or each individual instruction can be executed more quickly. The term RISC (Reduced Instruction Set Computing) was coined for processors which try to achieve the latter; the former became known as CISC (Complex Instruction Set Computing). RISC processors are typically characterised by simplified, fixed-width instruction sets, large numbers of registers and

fast memory access. CISC instruction sets aim for a closer correspondence to high-level languages. The distinction, though, has become blurred. An advanced RISC design like the PowerPC borrows elements from both schools and would more accurately be called a Rationalised Instruction Set Chip. Even processors like the PentiumII and AMD's clones, which implement a traditional CISC instruction set, function by first translating these instructions into simpler 'micro-operations' which are then executed by an optimised RISC core.

direction with their Project Alpha. The first plans for a Power Amiga were announced in 1995 by Escom, owners of the then-named Amiga Technologies. Around the same time, phase5 announced its own PowerUp project – a range of PPC accelerators for existing Amigas. The Power Amiga never saw the light of day thanks to Escom's bankruptcy and the confusion surrounding the Amiga's direction ever since. PowerUp eventually reached the market in late 1997.

A major setback for the role of the PowerPC in the Amiga's future occurred at the World of Amiga Show in May of last year, however. After a year of virtual silence, the new Gateway-owned Amiga Inc. unveiled its plans for the next generation Amiga and the PPC was no part of it. The new machines would be based on some unspecified multimedia processor (dubbed MMC, the Monster Mystery Chip, by the Amiga public) and a new operating system OS5.0, not derived from the current AmigaOS, would be used.

To add insult to injury, a transitional platform was planned to form a bridge between existing Amigas and the future. This so-called OS4.0 developer box would in essence be a standard x86-based PC. The announcement understandably outraged developers and users alike, both already having committed time and money to the PowerPC, especially since these plans contradicted an earlier statement from Amiga Inc.

Nevertheless, the Amiga market has continued its gradual move to the PPC, albeit with less enthusiasm than before. Amiga Inc, following a spate of u-turns and missed deadlines, are still to clarify their position with regard to the PPC, but things are now looking up. No fewer than four PPC accelerators have

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Explorer 2260. In the future, all Amiga games could be like this.

been announced that will all feature G3 or G4 processors, state-of-the-art CPUs from the PowerPC family, and the long-awaited update to AmigaOS, OS3.5, will include PPC support.

BRAIN TRANSPLANTATION

The problem with migrating any computer platform to a new processor architecture is one of compatibility. Not only is a new version of any operating system required, but a solution must be supplied to allow any existing software base to remain usable. That is the primary reason why the majority of the computing world is still using CPUs which are descended from the twenty-year-old 8086.

The fact is that the PPC series is in no way compatible with the 680x0 range. Apple's solution to this problem was to build emulation into their operating system. The first release of MacOS for PPC machines actually contained mostly 68K code. While all Macintosh software continued to work, the big disadvantage was speed: early PowerMacs actually ran old Mac software at a slower speed than existing high-end machines.

However, as the MacOS itself was slowly ported piece-by-piece to the PowerPC, as Apple encouraged developer's to convert their applications and as new machines based on faster PPC chips appeared, the performance benefit of the new architecture was realised.

The tentative steps which the Amiga has taken towards PPC functionality so far have been very different indeed.

POWERUP

The PowerUp accelerators from phase 5 are dual processor boards; they feature both a 68K and a PPC processor. The immediate advantage here is complete compatibility – plug one of these cards into an Amiga and it'll continue to run all existing software at full speed. You might not even know there was a PPC processor in there.

The disadvantage is the increased complexity of the system, which reduces the PPC performance of these boards and hikes up the cost.

The PPC on the PowerUp boards is integrated into the rest of AmigaOS through special software. The PowerUp software consists of a limited PPC kernel which provides a similar functionality for PPC programs as Exec does for AmigaOS: it manages task scheduling, memory allocation, message passing, etc. The software also allows communication between the two CPUs. However, this creates its own special problem.

Because the PowerPC kernel is so minimal, most PPC software requires services from the rest of AmigaOS which only run on the 68K side of the system. When a PPC program calls a 68K function, or indeed vice versa, a context switch occurs. One program must halt, exchange information with another (running on a different processor) and wait for the result. Any data caches must be flushed to ensure memory coherency between the two processors. This causes a significant performance hit.

If software isn't designed carefully, a PowerPC version will actually run more slowly than if it were executing on the 68K alone.

CHRP

Apple weren't part of the original PReP hardware standard. A latter agreement which was a superset of PReP was agreed on by Apple, IBM and Motorola and was variously known as CHRP (Common Hardware Reference Platform) or PPCP (PowerPC Platform). CHRP was based on open platform-independent standards such as Open Firmware and PCI. However, since a CHRP-compliant computer was designed to run MacOS, it needed a copy of the MacOS ROM to do so. As part of the agreement, Apple stipulated that they must give approval for any CHRP motherboard design.

This was all fine when Apple were licensing their operating systems and allowing other manufacturers such as Motorola, Power Computing and DayStar to build Mac clones. However, Apple were losing money fast because the clone makers were producing better and cheaper machines. In late 1997, with the return of Apple co-founder Steve Jobs to the company, they reversed their policy on licensing and refused any CHRP designs. This effectively killed the platform.



G4 AND ALTIVEC

The next generation of PPC chips from Motorola, due later this year, will feature the new AltiVec technology. This is a multimedia extension similar in concept to the MMX extensions that Intel gave to its Pentium, but it's much more powerful. An AltiVec processor will possess a 128-bit vector unit capable of operating on streams of data in parallel to the normal integer and floating point units. Performance gains of up to 10 times are claimed for multimedia operations such as MPEG decoding. Unfortunately, AltiVec has been the cause of a rift between IBM and Motorola. Although IBM intend to produce G4 processors, they have no plans to include AltiVec instructions. G4s are also rumoured to have a new fast bus interface, code-named MaxBus, as well as improved support for multiprocessing.

altivec
technology

The Origin Of New Possibilities

AltiVec Technology promise to give the PPC series a real performance boost in multimedia applications.

This context switching is such a critical issue that it prompted Haage and Partner to produce their own kernel for the PowerUp accelerators, called WarpUp. WarpUp performs the same role as the PowerUp software, but it allows faster context switching. It's also closer in spirit to AmigaOS in some ways. For example, WarpUp programs are stored on disk using an extension to the Amiga's native hunk format, while PowerUp uses the ELF format from the UNIX world. WarpUp, however, is incompatible with phase 5's kernel. It's impossible to run both simultaneously.

The release of WarpUp angered phase 5, who claimed that WarpUp was a hack, achieved by reverse engineering their own software. A rather childish war then ensued between the two companies and, as is usual in a war, everybody suffered.

Initially, developers preferred phase 5's solution. Perhaps this was just inertia or perhaps it was because PowerUp was the only one of the two with free development tools. Previously, H&P's commercial *StormC* package was required to program for WarpUp. This position has changed with recent versions of the freely available GNU egcs and VCC compilers. Indeed, it now seems that WarpUp is winning.

Most new software is designed for WarpUp and WarpUp itself is being released as part of the AmigaOS3.5 package. Other points in its favour are that WarpUp supports both PPC-only and mixed binary shared libraries, it's hardware independent and H&P's forthcoming 68K emulator runs under it. These last two are both important issues for the new G3-only accelerators planned for the Amiga.

The PowerUp design has suffered much criticism. People say that the PPC performance is crippled by the lack of

an L2 cache and the overhead of context switching. In hindsight, and especially in the wake of recent announcements, one could argue that following the emulation path similar to the Mac would have been better.

To be fair though, producing a PowerPC-only board for the depressed Amiga market would have been an even more risky business. After all, the Amiga had no guiding force, no Apple to develop the operating system or to support developers. Would users have bought a PPC-only board when little software to harness its power was available and when their existing software would run more slowly?

“The sad fact is that the PPC Amiga still lacks a killer application, a real attention-grabbing piece of software.”

PowerUp was a brave concept which has established the viability of the PPC Amiga platform. Now the awareness of users, developers and Amiga Inc. to the PowerPC has been raised, other solutions are looking a lot more feasible.

WHERE'S THE SOFTWARE?

The PowerUp boards have been with us for well over a year now and yet PPC software for the Amiga is thin on the ground. This shortage can be attributed to a number of causes.

Firstly, the context switching problem means that not all software would benefit from being ported to the PPC. Secondly, the PowerUp vs WarpUp debate has confused and discouraged both users and developers. Thirdly, the uncertainty of the PPC Amiga's future, due to the WOA98

debacle and Amiga Inc.'s dithering, has meant that commercial developer's consider PPC development to be too risky.

The PPC software which has been released tends to use the PowerPC merely as a number-crunching co-processor. Commercial software has been limited largely to image processing, such as *Elastic Dreams*, *Candy Factory Pro* and plug-ins for *PPaint* and *ImageFX*. The Freeware arena is littered with tools which harness the PPC's power for compression and decompression, mainly things like file packers, archivers and codecs for handling images and MPEG streams.

Games typically require less support from the operating system though, and so could potentially benefit the most from the PPC, but no commercial games have yet been released in PPC versions. The games that are available have been ported from open source initiatives: *Doom*, *Descent*, *Abuse*, etc. While these help to comfort Amiga users for the cash they laid out on their PowerUp boards, it's hardly reassuring.

A contributing problem is that CPU speed isn't the only limiting factor on the speed of games. The restrictive bandwidth to AGA or ZorroII graphics memory incurs its own penalty.

Amiga game development in the last few years has been notoriously fickle, with scores of games announced but very few actually surviving to be published. There are currently about 50 games in the works, many of which have PPC support planned. How many of these will ever see the light of day is unknown. There are even several projects in progress which will run on PPC Amigas only, such as The World Foundry's epic, *Elite-inspired*, space simulation, *Explorer 2260*, and Digital Images's port of Psygnosis's PlayStation hit, *WipeOut 2097*. Both of these games will require WarpUp.

Emulation is another area of software development that benefits from sheer processor grunt. PPC versions of *MAME* (the arcade system emulator), *Frodo* (the C64 emulator) and even *UAE* (the Amiga emulator), to name but a few, have been released. PPC ports of *Fusion* and *PCx* (the 68K Mac and Wintel PC emulators respectively) have long been promised but are still uncertain.

The sad fact is that the PPC Amiga still lacks a killer application, a real attention-grabbing piece of software. Hopefully this will change soon. The PPC kernel issue seems to have resolved itself; the imminent arrival of G3 Amigas and 68K emulation will solve PPC performance problems and the promise of fast PCI-slot graphics cards will overcome slow graphics access.

Continued overleaf →

THE FUTURE

The truth is that many of the original PPC goals have failed. PowerOpen and Taligent are dead; CHRP, if not entirely dead, is very critically ill. The development of PPC versions of operating systems such as OS/2, pOS, Solaris and WindowsNT have long since been shelved. Even a future for PPC BeOS is unlikely. Unfortunately, the only place you can find a PowerPC in a personal computer is in a PowerMac. IBM and Motorola seem content to ignore the rest of the desktop market and dance entirely to Apple's tune, the former concentrating solely on its embedded processor market and the latter on its workstations.

The failure of the PowerPC to conquer the world is disappointing because it has a lot to offer. The PPC is a simpler design than the ubiquitous Pentium and its clones. Not only does this mean a potentially better performance to price ratio, it's easier to build PPCs at higher clock frequencies; IBM have already demonstrated models running at 1GHz. Moreover, the computing world is poised to make the break to 64-bit architectures. The PowerPC already has this covered since it's part of the original specification. Intel, on the other hand, are developing a new architecture in conjunction with Hewlett Packard as a 64-bit replacement for the x86 range, and it's yet to be made known how these new IA-64 processors will achieve legacy compatibility. Amiga Inc.'s snubbing of the PPC was apparently because IBM and Motorola lacked an adequate 'roadmap' for the future. Given the above, I can't see how this is true. It's about time Amiga Inc. made definite plans for the new Amiga hardware. Does this MMC actually exist or is it merely a hypothetical processor, posited as a minimum for hardware performance? It's hard to see how they could find a

COMING SOON

All these planned Amiga G3/G4 accelerators will be PPC-only solutions and will run AmigaOS with Haage & Partner's 68k emulator and WarpUp stored in FlashROM. The emulation is claimed to achieve 68060 speeds on a 300MHz G3.



BRAINSTORMER

This was the first G3 card announced for the Amiga by the generally unheard-of German Amiga hardware developer Escena. The Brainstormer project is unusual in that it was originally supposed to be based on an Alpha processor and is designed to connect via a ZorroIII slot, rather than the CPU slot. It will feature SDRAM and a PCI interface. ZorroIII and dual-processor versions are also likely.

CYBERSTORM AND BLIZZARD G3/G4

Initially, phase 5 announced only the CyberStorm G3 cards for the A3000 or A4000, but when met@box (previously PIOS) released their plans for the AmiJOE, phase 5 quickly revised the project with new specifications, prices and an A1200 version. Both the CyberStorm and the Blizzard will accept either a G3 or G4 processor in a ZIF socket with a 1Mb backside cache. The CyberStorm will feature on-board UltraWide SCSI, the Blizzard Ultra SCSI. Both will have SDRAM, PCI and Firewire interfaces.



The new G3/G4 Generation: CYBERSTORM G3/G4 BLIZZARD G3/G4



AMIJOE

The AmiJOE cards from met@box are based on the company's Mac G3 cards. Versions will be produced for the A1200 or A2000/A3000/A4000. Both will feature a G3 processor with a 1Mb backside cache and SDRAM. The A1200 version will fit into a desktop case and will have a local bus connector for either a USB or Fast SCSI 2 interface.

The A2000/3000/A4000 version will have on-board USB and a PCI interface. A MultiJoe card is planned for the PCI interface which will provide an Ultra SCSI controller and a 2D/3D graphics accelerator.



TWISTER G3

The Twister had long been rumoured to exist as the ViperPPC. It's a collaboration between ACT (manufacturers of the Apollo range) and Titan Computer. It will be produced for the A1200 only and will feature either a G3 or G4 processor with a 1Mb BSC, two PCI slots and SD-RAM. Proposed PCI cards include the TwisterVision, a 2D/3D graphics accelerator based on the Riva TNT2 chip, and the Twister-SCSI, an UltraWide SCSI controller.



better choice of CPU than a new G4 AltiVec processor. The AltiVec will offer exceptional multimedia performance and QSSL, the supplier of the QNX micro-kernel for the next generation Amiga's operating system, already produce a PPC version.

The future of the Amiga at the moment could be said to be looking a lot rosier than it has done in a long time, but unless Amiga Inc. can communicate with the Amiga community a lot more openly, the community will carry on the PowerPC revolution without them.

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The manufacturing of 72 pin memory simms has now all but ceased, and as a result prices of those that are available are still rising on an almost daily basis. The wholesale price has risen 440% since the third quarter of 1998.

We are buying Amiga compatible stocks at every opportunity to try to ensure a continued source of supply for Amiga users. However, we are finding - increasingly - that many of the 32mb simms still available fail to work properly with Amiga accelerators so please always ring to check memory prices and availability before ordering - prices can change significantly between the time of advertisement placement and publication.

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A1200T-LE (A1200 T - Light Edition)

This is the best choice for existing A1200 users who want to upgrade to a new Workbench 3.1 machine and add their existing hard drives and other peripherals and accessories themselves.

A1200T-PS4 (A1200 ProSystem-4)

The A1200 Professional System 4 comes complete and ready-to-run with 3.2GB hardware, 24-speed CDROM, EZCD-XL buffered interface, '030/40 accelerator with MMU, FPU, 8mb and a CDDA/Amiga audio mixer output. Other options available - see table on the right.

A1200T-PS4/XL (A1200T ProSystem-4 XL)

This system is configured as for the A1200T-PS4 but with a faster CDROM and an 040/28MHz accelerator with FPU, MMU, 16mb memory and a pair of mains-powered 240w PMPO stereo speakers.

A1200T-SE (A1200 T - Studio Edition)

This is the system for serious Amiga-based multimedia work. It is configured as the A1200T/PS4/XLS but comes with an LS120 drive (reads & writes 1.44 PC diskettes & 120MB Amiga/PC cartridges), an EZVGA scandoubler/flickerfixer and a 15" SVGA digital monitor.

A1200T-SE/XL (A1200T - Studio Edition XL)

This is the ultimate A1200 multimedia tower system. It is configured as the A1200-SE system above and updated to include a CDReWriter with MakeCD software and 10 blank CD-recordable disks, a 4.3GB hard drive, an 060/66 accelerator with 32mb memory, a 17" digital SVGA monitor, a Prelude 1200TW full duplex hi-fi sound card and software and a 600 watt PMPO amplified sound system with stereo speakers and subwoofer.

| System Components | A1200T - | LE | PS4 | PS4/XL | SE | SE/XL |
|--|----------|-------|-------|--------|---------|---------|
| Mk4 EZTower | Yes | Yes | Yes | Yes | Yes | Yes |
| PC keyboard & keyboard adapter | Yes | Yes | Yes | Yes | Yes | Yes |
| Upgrade to A4000 k/b and k/b adapter | +£20 | +£20 | +£20 | +£20 | +£20 | +£20 |
| A1200 motherboard with K/S 3.1/WB3.1 | Yes | Yes | Yes | Yes | Yes | Yes |
| Sony floppy drive & EZDF0 interface | Yes | Yes | Yes | Yes | Yes | Yes |
| Magic Pack productivity software + 2 games | Yes | Yes | Yes | Yes | Yes | Yes |
| Upgradeable to full EZPC Tower system | Yes | Yes | Yes | Yes | Yes | Yes |
| Scala MM300 multimedia software | n/a | Yes | Yes | Yes | Yes | Yes |
| EZCD-XL 4-device buffered interface | n/a | Yes | Yes | Yes | Yes | Yes |
| EZTower CD audio/Amiga audio mixer | n/a | Yes | Yes | Yes | Yes | Yes |
| 3.2GB Tower drive with WB3.1 installed | n/a | Yes | Yes | Yes | Yes | n/a |
| 4.2GB Tower drive with WB3.1 installed | n/a | +£20 | +£20 | +£20 | Yes | Yes |
| LS120 with 1 cartridge & EZIDE s/w | n/a | +£80 | +£80 | Yes | n/a | n/a |
| CDROM / CDReWriter + 10 gold disks | n/a | 24x | 32x | 32x | CDRW+GD | CDRW+GD |
| 1230/40 MMU FPU accelerator - 8 MIPS | n/a | Yes | n/a | n/a | n/a | n/a |
| 1240/28 MMU FPU accelerator - 21 MIPS | n/a | +£60 | Yes | Yes | n/a | n/a |
| 1240/40SE MMU FPU accelerator - 30 MIPS | n/a | +£100 | +£40 | +£40 | n/a | n/a |
| 1260/66 MMU FPU accelerator - 51 MIPS | n/a | +£250 | +£185 | +£185 | Yes | Yes |
| Memory included (ring for upgrade prices) | n/a | 8MB | 16MB | 16MB | 32MB | 32MB |
| EZVGA scandoubler with flickerfixer | n/a | +£80 | +£80 | Yes | Yes | Yes |
| 15" SVGA monitor | n/a | +£115 | +£115 | Yes | n/a | n/a |
| 17" SVGA monitor | n/a | +£190 | +£190 | +£75 | Yes | Yes |
| Prelude 1200TW hi fi full duplex sound card | n/a | +£140 | +£140 | +£140 | Yes | Yes |
| Amplifier (PMPO watts), speakers (+ subwoofer) | n/a | n/a | 240W | 240W | 600W+SW | 600W+SW |

Cost with options as specified: £299.95 £549.95 £669.95 £999.95 £1799.95

If you don't have the need or the space for an A1200 Tower System then we can still supply brand new A1200 desktop console Magic Packs - either floppy drive only, or upgraded to a 170mb hard drive, EZCD-XL buffered interface and external CDROM socket.

A1200 diskette desktop console Magic Pack - £179.95 A1200 170MB HD desktop console Magic Pack - £248.95

LIMITED EDITION 1260/75LC 60 MIPS ACCELERATOR

Exclusively available from Eyetech - at a price lower than that of the 1260/66!

The fastest 680x0 accelerator for any Amiga is now available (exclusively) from Eyetech. Rated by Sysinfo at around 60 MIPS the accelerator is suitable for both desktop and towered A1200s. The integer processing speed of the 75MHz 060 is - in Simon Goodwin's words - 'awesome' being up to 2200% faster than that of an 030/50! A.I. recommend an '060 processor to get the most out of OS 3.5 - see separate news stories. The 1260/75 LC comes with a full MMU but no FPU as no internal or external Motorola FPU module will work at these speeds. As most Amiga software is supplied with non-MMU versions, these should still easily out-perform the FPU versions on a lesser processor in all but a handful of cases. And now for the best news of all. You can have the fastest O/S-compliant Amiga on the planet for just £299.95!

OS 3.5 UPGRADE PREPARATIONS

With OS 3.5 is on track for delivery in a few months time so now is the time to start preparing your A1200 to be OS 3.5-ready. We will be shipping OS 3.5 (estimated price £34.95) from the date of its official release. Why not place an advanced order to ensure you get your copy at the earliest opportunity? Amiga Inc recommend the following configurations:

For 'acceptable' performance:

| | | |
|--------------------------|---------------|-------------|
| '030 accelerator | ACC-030-40-1S | £59.95 |
| Scandoubler/Flickerfixer | EZVGA range | from £48.95 |
| Modem | MOD-56K 56K | £69.95 |

You will also need:

| | | |
|----------|--------------|--------|
| 3.1 ROMs | SYS-KS31-ROM | £29.95 |
|----------|--------------|--------|

To take full advantage of OS 3.5:

| | | |
|-------------------|------------------|---------|
| '060 Accelerator | ACC-060-50 | £267.95 |
| 16-bit sound card | ADPT-AUD-PL12-DT | £129.95 |
| I/O Accelerator | INT-SER-PTJR | £39.95 |

... or SYS-KS31-MPUG (w/3.1 disks and MP s/w) £49.95

SCALA MM400 CD now available and in stock

The best multimedia presentation software for the Amiga -SCALA MM400 - is now available on CD ex-stock from Eyetech. MM400 contains many more features than MM300 (distributed free with HD Magic Packs and as a CU Amiga coverdisk) making it even faster to create slick commercial presentations. The CD also contains 130mb of colourfonts, additional backgrounds, sample presentations and a full interactive manual on CD.

Scala MM400 is just £59.95. Upgrades from MM300 are just £39.95 (coverdisk or proof of purchase required).



When Faster means Slower

As notional CDROM speeds continue to climb - from 8x, 40x and above over the first 12 months - do we really get a better CDROM performance on an Amiga? This answer yes, but only up to a point! The problem is that point we passed around the 20x mark - that is peak transfer rates about 3.0MB/s. Above that rate a higher speed mechanism actually slows down the performance of the CDROM for most practical applications. Why? Because the higher notional data transfer is made possible by spinning the CDROM more quickly - and the faster its working speed the longer it takes to reach that speed from the moment you click on its icon. In fact, 1998 Amiga Format review found that a 20-speed CDROM was faster in practice than a 24-speed unit for just this reason. Unfortunately 20x CD mechanisms are no longer available.

So why do CDROM manufacturers keep increasing the speed? Well, all mechanism specifications cost roughly the same to make - but - particularly in the PC world, if it has a bigger go-faster stripe, the average purchaser thinks it must be better and is therefore prepared to pay more.

On the A1200, if its performance you want, our recommendation would be to go for a 24x unit - rather than a faster mechanism - every time. But if its go-faster stripes you need, we can also supply those models as well!

Bare 24-speed CDROM mechanisms are available from Eyetech for just £34.95. External A1200 24-speed system with PSU, cables, buffered interface & s/w cost just £74.95.

Turboprint 7 upgrade to 7.03 now available from Eyetech

A significant update to Turboprint 7 has been released by Irseesoft taking the program to version 7.03. This fixes several bugs in drivers and GfxPublisher. The update program is now being shipped with all copies of TB7 sold by Eyetech. It is also available for download from Irseesoft's web site at www.irseesoft.com, or from Eyetech on floppy disk.

If you wish to obtain a copy from us you can order the upgrade by post or phone for £5 + carriage - code DVR-TB7-703UD.

EZPC-PRO & NEW ENTRY-LEVEL EXPANSION SYSTEMS FOR YOUR A1200

3 pre-configured EZPC-Pro systems to suit different applications and pockets

The EZPC system works by making the PC motherboard act as a slave processor to your A1200 - looking after the operation of the systems accessories whilst you and your Amiga get on with creative work. You can of course use the PC as a computer in its own right if you really insist!

It's also important to understand that EZPC A1200 expansion system is based on a real Amiga and is not at all comparable with other PC-only systems running a clever, but slow, Amiga emulator as a PC application.

In fact there are such a range of applications that the EZPC system can open up to an Amiga user that we have introduced three systems pre-configured for different types of use. These are:

A1200 EZ-PC TOWER-HSE (Home Studio Edition). £999.95

The HSE configuration comes complete with TV tuner with cut-and-paste teletext facilities, 24-bit video frame grabber and video capture card, 30 bit colour scanner, 56K modem and unlimited internet access at local call rates - as well as the standard EZPC system components

A1200 EZPC TOWER-DVE (Digital Video Edition). £1369.95

The DVE is fitted with a purpose-designed, hardware-based MJPEG non-linear video editing suite for home/semi-professional video production. It also comes with built-in CD Writer/ReWriter (with drag-and-drop CD writing software) for producing your own audio and video CDs.

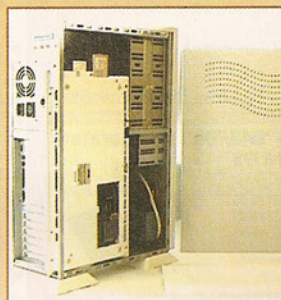
A1200 EZPC TOWER-XLS. £1995.95

This must be the ultimate creative multimedia expansion platform for your A1200. It comes equipped with non-linear video editing hardware and software, A4 30-bit flatbed scanner, DVD ROM hardware & MPEG 2 decoder (for DVD video playback), CD ReWritable drive, 15" Colour Monitor, 56k data/fax/voice modem with voicemail and internet software - and much more.

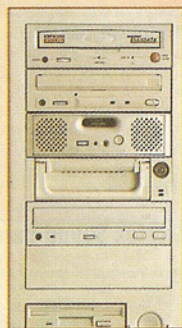
A1200 EZPC TOWER-3.1+. £395.95

Finally, if your A1200 is feeling a bit tired we can supply your chosen EZPC Tower system with a brand new Kickstart 3.1 A1200, complete with Magic Pack software, 24 Speed CDROM, 3.2 GB hard drive (with W/b & Magic Pack software preinstalled), EZCD Mk4 interface and EZIDE software ready installed and connected up. All you need to do is to slot in your existing accelerator, fit your old hard drive into the external mounting drawer provided (see photo) switch on and start using your new A1200 EZPC Tower system.

All these three packs are designed for you to fit your existing A1200 in the EZPC Tower and connect it up. This normally takes around an hour, but if you would prefer to receive your system ready to use, we can arrange to collect your Amiga, do the work for you and ship your new system back all ready to plug-in to mains and phone outlets! Please ring for details.



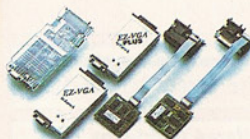
The EZPC Tower system showing the A1200, the PC rear sockets, card slots and removable side panels



EZVGA Scandoublers & Flickerfixers from just £48.95

All scandoublers/flickerfixers allow the Amigas 15kHz modes to display on a PC SVGA monitor. Flickerfixers allow 15kHz interlaced screens to be displayed, rock-steady, at twice the standard vertical resolution. Other modes are passed through unaltered.

| | | |
|-------------|---|--------|
| EZVGA-Mk2 | Compact, external, upgradeable scandoubler (to full FF) | £69.95 |
| EZVGA-Plus | Compact, external scandoubler with full FF | £99.95 |
| EZVGA-SEFF | Economy external scandoubler with full FF | £89.95 |
| EZVGA-INSO | Internal A1200/A4000 scandoubler (not upgradeable) | £48.95 |
| EZVGA-INFF | Internal A1200/A4000 scandoubler with full FF | £79.95 |
| EZVGA-INFF2 | Internal A1200/A4000 s/doubler with full FF for BMON | £89.95 |



AMIGA SVGA MONITORS

For use with Amiga Zorro & the new PPC Graphics Cards, Scandoublers & the EZPC-Tower system

Special pricing on scandoublers/flickerfixers bought with monitors from just £45 extra

Monitor specifications are quoted as the highest vertical refresh rate at the maximum resolution. Higher refresh rates (>=72Hz) at lower resolutions are available and give a more visually relaxing display.

Scandoubler/flickerfixers have resolutions governed by the Amiga's AA/AGA chipset and are restricted to a maximum vertical refresh of 73Hz and a maximum usable resolution of 724Hx566V.

The PPC BVision supports 1600x1280@72Hz. You will not gain the full benefit of this superb graphics card without a monitor that supports this resolution at that refresh rate.

| | |
|--|---------|
| 14" SVGA 0.28DP, 1024Hx768V @ 60Hz | £89.95 |
| 15" SVGA 0.28DP, 1024Hx768V @ 60Hz | £119.95 |
| 17" SVGA 0.28DP, 1280Hx1024V @ 60Hz | £199.95 |
| Engineering workstation grade monitor, 160MHz, Diamondtron tube: | |
| 17" SVGA 0.25DP, 1600Hx1280V @ 75Hz | £399.95 |



6 models of BMON are available from £39.95 - send for details

The BMON takes two video inputs - one from an Amiga's AA chipset (either directly or via a scandoubler/flickerfixer) and the other from a graphics card (BVision, Cybervision, Picasso, Ateo bus card etc) - and switches your SVGA or multisync monitor between them. The BMON uses high quality video switchers so - unlike conventional switchboxes - there is no significant loss of quality from either source. It can also be used - in its SMON form - for switching an SVGA monitor between a PC and Amiga system.

As standard the BMON accepts input from a BVision or Cybervision card and from an Eyetech EZVGA internal flickerfixer-2. It is manually switched by a remote miniature toggle switch positioned - for example - on the front panel of a tower system.

The New Eyetech Mk 4 EZTower System - from just £79.95

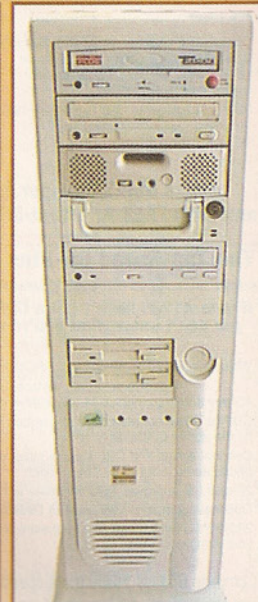
"This is definitely one of the easiest solutions to building your own Tower"
- Amiga Format
"The Eyetech Tower offers clever solutions with a Velcro easyfit mentality"
- CU Amiga

- ✓ The easiest way to re-house your A1200 by far
- ✓ Expand your system with EZPC or Zorro slots
- ✓ 250 W PSU with PC and Amiga power connectors
- ✓ No expensive PCMCIA right-angle adapter required
- ✓ Available in 5 models to suit different skills and budgets
- ✓ The only tower allowing both PC & A1200 in one case

| | Backplate kit | DIY* EZTower | Full EZTower |
|------------------------------------|---------------|--------------|--------------|
| DFO: face plate & ribbon cable | Yes | Yes | Yes |
| Custom backpanel w/SCSI, audio KOs | Yes | Yes | Yes |
| A1200 power & LED adptrs | Yes | Yes | Yes |
| CE-approved metal PC case | n/a | Yes | Yes |
| No of bays/PSU capacity | n/a | 9/250W | 9/250W |
| Directly accessible PCMCIA slot | Yes | Yes | Yes |
| DIY assembly instructions | Yes | Yes | n/a |
| Installation instructions | Yes | Yes | Yes |
| PC board/Siemese compatibility | Yes | Yes | Yes |
| Assembled & A1200-ready | No | No | Yes |
| Eyetech installation option | No | No | Yes |
| Cost with options as specified | £39.95 | £79.95 | £99.95 |
| With EZKey2/PC k/b (w/A4k k/b+£20) | n/a | £99.95 | £119.95 |

*With the DIY EZ-Tower you have to remove the PC tower back panel and some internal shelving and fix the new back panel in place

| EZPC-Pro Tower Model | HSE | DVE | XLS |
|--|----------|-------------|----------|
| EZPC-Tower/250W psu/PC mouse/HD floppy | Yes | Yes | Yes |
| EZ-Key k/b adapter PC k/b & rem switch | Yes | Yes | Yes |
| Ultra DMA hard drive 4.2GB | Yes | Yes | Yes |
| 32-speed CDROM | Yes | Yes | n/a |
| DVD-ROM (inc 20x CDROM capability) | n/a | +£79.95/w/g | Yes |
| CDReWriter (inc 6x CDROM) & s/w | n/a | Yes | Yes |
| 10 x blank CDR's 650MB | n/a | Yes | Yes |
| 100MHz bus PC motherboard w/64MB | Yes | Yes | Yes |
| High perf high res 3D Gfx card w/MPEG-1 | Yes | Yes | Yes |
| TV/teletext/framegrabber | Yes | n/a | n/a |
| Hardware MJPEG Video Editor | n/a | Yes | Yes |
| Hardware MPEG-2 Video decoder | n/a | +£59.95 | Yes |
| CD-quality sound card with MIDI | Yes | Yes | Yes |
| Software controlled Amiga/PC audio mixer | Yes | Yes | Yes |
| Internal 60W PMPO monitor speakers | Yes | Yes | Yes |
| Siemese RTG2.5 software | Yes | Yes | Yes |
| Amiga PCMCIA & PC ethernet cards/cabs | Yes | Yes | Yes |
| 30-bit high res A4 flatbed scanner | Yes | +£59.95 | Yes |
| Internal 56k data/fax/voice modem | Yes | +£49.95 | Yes |
| Unlimited access Internet package | Yes | +£49.95 | +£49.95 |
| 15" SVGA monitor | +£109.95 | +£109.95 | Yes |
| 17" SVGA monitor | +£189.95 | +£189.95 | +£99.95 |
| Win 9.x/Lotus SmartSuite bundle | +£99.95 | +£99.95 | Yes |
| Miami Amiga TCP/IP stack | +£24.95 | +£24.95 | Yes |
| Cost with options as specified | £999.95 | £1369.95 | £1999.95 |



ENTRY LEVEL EZPC TOWER SYSTEMS NOW AVAILABLE FROM JUST £599.95

UPGRADE PACKS FOR EXISTING EZTOWER USERS JUST £499.95

The EZPC-Pro Tower configurations (featured on the next page) have produced a tremendous level of interest - and orders - from professional and serious home Amiga users alike. We have also had many requests for a lower cost, entry level solution, from those Amiga users whose budget is more modest. So here it is - the EZPC-SLE - giving most of the potential of the EZPC-Pro systems (featured opposite) in an affordable (but expandable) package.

The EZPC-SLE specification is as follows:

- ✓ Full EZTower Mk4 with removable side panels
- ✓ adapter & 250W PSU (not with upgrade kit)
- ✓ 100MHz-bus motherboard with 4x UDMA IDE ports
- ✓ 2 x high speed serial & 1 x EPP parallel port
- ✓ 8MB SVGA SIS Graphics
- ✓ 3.2GB UDMA hard drive
- ✓ PC mouse
- ✓ Siemese 2.1 RTG serial Amiga-PC networking software and cable.
- ✓ PC Keyboard & EZKey-SE/PC keyboard (not with upgrade kit)
- ✓ 333M II CPU with 1MB cache memory
- ✓ 32MB 100MHz memory
- ✓ 16 bit 3D sound record and playback
- ✓ 24 speed CDROM
- ✓ Remote Amiga/PC keyboard switch

and, to display your Amiga output on a PC screen,

either

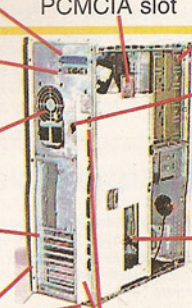
- ✓ a TV/Teletext tuner with 24-bit still & video capture and Amiga composite video input,
- or
- ✓ an Amiga EZVGA-INSO internal scandoubler and BMon switch

You will also need to have Windows 9x operating system and an SVGA PC monitor - see the panel on the EZPC-Pro Tower system panel for further information.

A collection, installation and delivery service is also available - please ring for details.

* Optional extra not included in standard EZTower system

| | | |
|--|--|--|
| External SCSI output socket* | (Surf) Squirrel* or ethernet card* in PCMCIA slot | 9 drive bays in total |
| CDROM & Amiga Audio mixer output* | | EZKey input socket |
| 250Watt PSU with monitor output socket | | Amiga accel'tor* & optional BVision graphics card* |
| Space for standard PC motherboard* | | |
| Individually removable side-panels | All A1200 rear panel sockets are directly accessible | 24.5" H x 7.5" W x 16.0" D |



EZBus-Z4 - A new Zorro adapter from Eyetech featuring regular Z2 slots and 2x 19MB/s local bus connectors

EZTower-Z4 - A new EZTower specifically designed to take the EZbus-Z4
EZTowerZ4, k/b adapter, PC k.b & EZBus-Z4 £249.95
As above - introductory price - advance orders £199.95

AWARD-WINNING UMAX SCSI FLATBED SCANNER

- 600 x 300dpi optical resolution, single-pass 24-bit A4 flatbed scanner
- Comes with PhotoScope (Amiga) and Mac software. Compatible with all modern SCSI interfaces - including PPC, Blizzard & Classic Squirrel (but not Surf-Squirrel)
- PCW Best Scanner of 1998 Award - July 1998; PCW Best Scanner September 1998
- Highly-acclaimed ArtEffect-SE v1.5 (normally £59.95) free with this bundle whilst stocks last . . .

Amiga UMAX Scanner & PhotoScope Bundle
now with FREE ArtEffect-SE v1.5 - still just £179.95

The Top-Rated CD-Plus Range for the A1200

"Eyeteck have come up with a real winner with this new CDROM drive" - Ben Vest, AF

If your A1200 hasn't got a CDROM then you don't know what you're missing!

At these prices there is really no excuse!

- Whisper quiet 24 or 32-speed CDROM mechanism
- EZCD-Mk4 device buffered interface, 3-connector 40-way and 2-connector 44-way cables included
- CDPlus driver software specially written for Eyeteck by the author of IDE-fix
- Optional Amiga and CDDA audio mixer with Gold phono audio jacks - just £14.95 each
- 20-watt CE-approved PSU complete with 13A plug.
- Optional upgrade to MiniTower or Desktop case with 230W PSU (which can also hold extra drives and power your Amiga) just £20 extra!

2 Free CDs whilst stocks last

Complete CDPlus Systems: 24-speed just £74.95; 32-speed just £84.95

Bare mechanisms for Towers: 24-speed just £34.95; 32-speed just £44.95!

lower prices

A1200 EZWriter and EZReWriter CDROM Burners

Make your own music and data CD's, back up data for less than 0.15p/MB . . .

- Both are IDE/ATAPI reader/writer units with MakeCD Amiga writing software
- EZWriter units cut 'Gold' CD blanks at 2x speed & read CDROM's at 8 speed
- EZReWriter units cut 'Gold' CD blanks and CD rewritable disks at 2x speed and read conventional CD's at 6 speed
- Gold 650MB CD blanks (for use with either model) are available at ten for £10 at time of purchase
- CD rewritable disks are just £5 each when bought with the EZReWriter

lower prices

EZWriter Internal

EZWriter/EZReWriter Options

| | | |
|----------------------------------|--|---------|
| EZWriter-Bare | for A4000 or A1200 Tower (bare drive - no MakeCD) | £179.95 |
| EZWriter-INT | for A4000 or A1200 Tower (with MakeCD) | £209.95 |
| EZWriter-SE | External A1200 unit with separate 100w PSU | £249.95 |
| EZWriter-Gold | External A1200 unit with int 40w PSU, Gold audio skts | £279.95 |
| EZWriter-MT | Mini-Tower-cased unit with 230w PSU which can house an additional LS120/Zip/CDROM & power your A1200 | £269.95 |
| EZReWriter-Bare | for A4000 or A1200 Tower (bare drive - no MakeCD) | £199.95 |
| EZReWriter-INT | for A4000 or A1200 Tower (with MakeCD) | £238.95 |
| EZReWriter-SE | External A1200 CD ReWriter with separate 100w PSU | £279.95 |
| IDE interfaces if required . . . | EZCD-SE I/F, 44-way & 40-way cables & CDROM s/w - add £20 | |
| | EZCD-Mk4 I/F, 44 & 40-way cables & EZ-IDE s/w - add £30 | |
| | IDE-Flyer interface, cables & s/w - add £50 | |

Complete A1200 IDE solutions . .

- All drives come ready to use with WB3.0 pre-installed & WB2.x install script
- All drives over 200 MB come with over 45 top quality utilities (not shovelware) and MME multimedia authoring s/w pre-installed, configured & ready-to-run

LS120 & Zip Drives (ATAPI I/F & EZIDE needed)

| | | | |
|----------------------------------|--------|------------------|--------|
| LS120 (HD Floppy/120MB Cart) | £79.95 | 3 x 120MB carts | £29.95 |
| Zip Drive (Mac emul. compatible) | £79.95 | 3 x 100 MB carts | £29.95 |

TowerDrives (3.5" drives, 25mm high)

2.5GB - £89.95 3.2GB - £109.95 4.3GB - £129.95

2.5" InstantDrives for the A600/A1200/SX32

| | |
|--|---------|
| 20MB Entry-level drive for the SX32/A600 | £29.95 |
| 170MB Entry-level drive for the SX32Pro/A1200 | £49.95 |
| 260MB Entry-level drive for the SX32Pro/A1200 | £59.95 |
| 1.4GB A high performance drive for power users | £129.95 |
| 3.2GB Ultrastim 5mm drive - A1200/600/SX32 | £169.95 |
| 4.3GB Ultrastim 5mm drive - A1200/600/SX32 | £189.95 |



EZGen Amiga Genlock

- Superimposes Amiga-generated graphics on a composite PAL video stream. Just plug in and go!
- Substitutes incoming video for any 'transparent' colours in your paint package, titling or multimedia presentation software.
- Create stunning transition and titling effects with packages such as Scala MM300 (which is included with A1200 hard drive Magic Packs).

Now just £69.95



Turn your CD32 into an A1200!

- All models come with keyboard, hard & floppy drive, serial, parallel, RGB & VGA video interfaces
- Pro models have '030 40MHz or 50MHz cpu and optional PC keyboard i/f. Pro-50 has full MMU.
- Mk2 takes up to 8MB & FPU; Pro models take up to 64MB & FPU.

| | |
|--------------|---------|
| SX32 Mk2 | £149.95 |
| SX32 Pro50 | £249.95 |
| SX32 Pro40EC | £199.95 |

The SX32 Pro-50



Due to variations in exchange rates the prices of some products may change - up or down - from the prices shown. Please ring or check our website [www.eyeteck.co.uk/MAIN/APRICE.HTM] for the latest prices before ordering.

NEW

Apollo Accelerators for the A1200

1230/40 TURBO PRO MK3

High performance 1 or 2 simm entry level accelerators for A1200 desktop consoles or tower systems

| | |
|-----------------------------------|-------------|
| MMU, FPU & 1 SIMM socket to 32MB | only £59.95 |
| MMU, FPU & 2 SIMM sockets to 64MB | only £69.95 |

| | | | |
|------------|---------------------|-----------|---------|
| A1240/28 | '040/28MHz/MMU/FPU* | (21 MIPS) | £127.95 |
| A1240/40SE | '040/40MHz/MMU/FPU* | (30 MIPS) | £167.95 |
| A1240/40 | '040/40MHz/MMU/FPU* | (30 MIPS) | £184.95 |
| A1260/50 | '060/50MHz/MMU/FPU* | (39 MIPS) | £264.95 |
| A1260/66 | '060/66MHz/MMU/FPU* | (51 MIPS) | £349.95 |
| A1260/75LC | '060/75MHz/MMU* | (60 MIPS) | £299.95 |

*To 32MB. Optional 2nd simm socket (tower only) offers 64MB total

The Apollo A1260/75LC is the fastest Operating System-supported

Amiga accelerator currently available

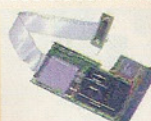
Tip: Buy your memory with the accelerator to ensure full compatibility 20% off memory prices when bought with an Apollo or phase5 accelerator

phase5 PowerUp A1200 PPC + '040/'060 Accelerators

Without SCSI (not upgradeable) inc. MMU & FPU

| | | |
|------------------|----------------|--------------|
| 160 MHz 603e PPC | '040/25MMU/FPU | only £199.95 |
| 160 MHz 603e PPC | '060/50MMU/FPU | only £479.95 |
| 240 MHz 603e PPC | '040/25MMU/FPU | only £319.95 |
| 240 MHz 603e PPC | '060/50MMU/FPU | only £549.95 |

Add just £60 to the above prices for factory fitted on-board Fast SCSI II interface



Blizzard Vision PPC 8MB Graphics Card

Unbelievable quality and speed - 1600x1280@72HZ! No Zorro slots needed!

NEW! 8mb card - £159.95 or just £139.95 with a PPC The fastest, most highly specified graphics card you can buy for your A1200

A1200 Clock Port Expansion Cards

For non-Zorro A1200s the best expansion route is via the (unused) clock port

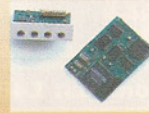
| | | |
|---|--|-------|
| PortJunior | 1x 460kb serial port | 39.95 |
| IOBlx1200S | 1x 1.5 MB/s serial port | 49.95 |
| IOBlx1200P | 1x EPP parallel port | 49.95 |
| (Drivers for PC parallel port scanners, Zip drives etc., available shortly) | | |
| PortPlus | 2x460kb serial & 1x800kb parallel port | 69.95 |
| Catweasel-2 | HD Amiga/PC floppy controller | 49.95 |
| ClockUp | 4-way clock port expander | 19.95 |

Prelude 16bit Hi-Fi Full Duplex Sound Card

"Easily the best A1200 sound card so far" - Tony Horgan, AF April 99

- Clockport fitting - No Zorro slots required
- Simultaneous recording, playback and mixing
- MIC, CD, AUX (Amiga audio) and line 3.5mm jack inputs. 3.5mm jack output to speakers.
- Mixes CD & Amiga audio etc automatically on bootup without invoking application programs.
- Extensive software support including Samplitude, Octamed SS & AHL drivers & PPC-based MPG3 audio playback

Desktop: £129.95 Tower: £149.95 Zorro: £189.95



Parallel & Serial expansion for Zorro-based systems

IOBLIX expandable Z2 I/O card for Tower Systems 2xS, 1xP - £89.95

Abridged Guide to Buffered Interfaces

A buffered IDE interface is essential if you are considering expanding your A1200's storage capability. Not only does it give you the option to attach up to 4 hard drive/CDROM/LS120/Zip etc devices but it also protects your A1200 by putting back the buffering electronics that Commodore/ATI left out of the A1200 design. Some interfaces can also significantly speed up the data transfer to and from your hard drive and/or CDROM . . . but you will need to choose the right interface for your particular setup - see below, ring for details or send a stamped addressed envelope for an IDE Interface Fact Sheet. Note that the EZCD-SE is equivalent to the 'standard' interface offered by some other suppliers. See also the EZIDE software panel on this page.

NB If you are thinking of getting a hard drive larger than 4.3GB then buy the IDE-Flyer - or wait for OS3.5 which properly supports them and gives new, compatible versions of FFS, Format & HDToolbox programs

| Interface | Max Xfer | Suitability |
|-----------|----------|---|
| EZCD-SE | 2MB/s | 68030/40MHz or slower / no accelerator. |
| EZCD-Mk4 | 3MB/s | 68030/50, 68040/xx, 68060/xx accelerator. |
| IDE-Flyer | 8MB/s | 040/xx, 060/xx, UDMA HD & 24 speed+CDROM |

| EZCD Buffered Interfaces | SE | Mk4 |
|---|--------|--------|
| 4-Device Buff Interface & CDROM Software | £18.95 | £28.95 |
| CDROM s/w, 3x40 & 2x44-way cables | £28.95 | £38.95 |
| EZ-IDE s/w, 3x40 & 2x44-way cables | £38.95 | £48.95 |
| Elbox IDE Flyer I/F & CDROM file system (>4.3GB HD Support) | £54.95 | |

EZKey2

- Autodetects and remaps Amiga & PC keyboards
- Plugs directly into the ribbon cable slot on the A1200

| | |
|--|--------|
| EZKey2 alone - for A1200 only - just | £28.95 |
| EZKey2 and Windows keyboard | £38.95 |
| EZKey2, A4000 k/b & 6-to-5 pin adapter | £58.95 |

EZKeySE

- Separate models for Amiga & PC keyboards
- Amiga version & k/b detects all multi-key combinations

| | |
|--|--------|
| EZKey-SE/Amiga - for A1200 & A600 - just | £18.95 |
| EZKey-SE/Amiga A4K k/b & 6-5 pin adapter | £48.95 |
| EZKey-SE/PC - for A1200 & A600 - just | £24.95 |
| EZKey-SE/PC and Windows keyboard | £34.95 |

TurboPrint 7 - The essential partner for your digital imaging work

- The most comprehensive, fastest replacement printing system for all WB2.x+ Amigas
- Supports more than 70 printers including the latest models from Epson, Canon, HP printers - including the Award-winning Epson Stylus Photo series
- Integrates seamlessly with ScanQuix scanning software and CamControl digital camera software
- Poster printing, image tiling, colour correction, print spooling, multiple copies, postscript emulator, screen grabber, photo optimisation etc, all included
- Selectable parallel device for use with high-speed interfaces such as the PortPlus & IOBlx1200P
- 20% off the price of the PortPlus & IOBlx1200P when purchased with TurboPrint.



TB7 - £89.95 6-7 w/g - £189.95

Amiga Digital Imaging Software from Andreas Gunthe

ScanQuix4 Software just £59.95 - Upgrades just £29.95

- 24 bit scanning with full range of editing options.
- Stand-alone use or integrates with your Art package (AdPro, ArtEffect, PPaint, Photogenics, ImageFX, XiPaint, Pagestream 3, DPaint5) via AREXX.
- 'Scan-to-disk' option in Jpeg or IFF.
- Unique calibration program which automatically compensates for scanner and printer deficiencies allowing photo-realistic output on any high resolution, TurboPrint or Studioli supported, colour printer.
- Interpolated resolutions to 20000x20000 dpi.
- Colour photocopy option when used with a one-pass colour scanner
- Supports Epson, HP, Umax, and some Mustek & Artek SCSI scanners & Epson parallel scanners. (Umax ScanQuix4 is £79.95, Photoscope £59.95)
- Compatible with all modern SCSI controllers including PPC, Blizzard & Classic Squirrel (but not Surf-Squirrel).



CamControl Amiga Digital Camera Software - now just £29.95

- Serial connection versions available for most popular models of Kodak, Minolta, Olympus, Casio & Fuji digital cameras
- Picture transfer, camera control & slideshow options (camera dependent)
- Stand-alone use or integrates with your Art package (AdPro, ArtEffect, PPaint, Photogenics, ImageFX, XiPaint, Pagestream 3, DPaint 5) via AREXX
- Selectable serial device for use with high-speed interfaces like the PortJunior & IOBlx1200S
- 20% off the price of the PortPlus & IOBlx1200S when purchased with CamControl software.



EZIDE - IDE/ATAPI ENHANCEMENT SOFTWARE

PROBABLY THE ONLY HARD DRIVE/CDROM/LS120/ZIP/SYQUEST S/W YOU'LL EVER NEED

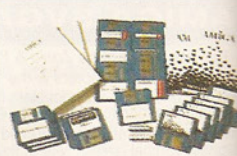
- Supports LS120, Zip, Jaz, SyQuest, and other IDE/ATAPI removable cartridge drives AUTOMATICALLY. Cartridges just appear on the Workbench when inserted and disappear when ejected - just like a floppy disk. IDE ZipPrep tools are also included.
- Optimises hard disk performance automatically. Supports 'second channel' hard drives on most 4-device buffered interfaces.
- Extensive CDROM support including multiskid changers, CD32 emulation, high performance Mac, PC & Amiga CDROM filesystems, multitessation and multivolume CDROM support.

EZ-IDE Amiga IDE, ATAPI, CDROM & removable media driver s/w £34.95
If bought with any EZCD, I/F, Zip or LS120 Drive £39.95
Upgrade from Eyeteck CDPlus/IDE Fix software* £14.95
(*trade in & proof of purchase required)

AMIGA MAGIC PACK UPGRADE PACKS AVAILABLE IN LIMITED QUANTITIES

The ideal way to update your Commodore A1200:

- 3.1 Kickstart ROMs
- Photogenics 1.2SE
- 3.1 Workbench (6 disks)
- Personal Paint 6.4
- Wordworth 4.5 SE
- Organiser 1.1
- Turbocalc 3.5
- Pinball Mania & Whizz
- Datatore 1.1
- Workbench 3.1 manuals
- Magic Pack application software manuals



all for just £49.95!

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UK Bank/BS cheques, Visa, Mastercard, Switch, Delta, Connect, Solo, Electron. Postal/Money orders accepted. (*A 3% charge applies to all credit card orders). Due to space limitations some of the specs given are indicative only - please ring/write for further details. Please check price specification and availability before ordering. If ordering by post, please provide a daytime telephone number. Goods are not supplied on a trade basis. A1200 items are tested with a Rev 1.0.1 motherboard - other boards may need modification. Items subject to mechanical wear & tear (eg keyboards) are limited to 90 days warranty on those components. E.O.E. All prices include VAT at 17.5%. Orders sent outside the EC do not incur VAT - divide the prices shown by 1.175 to arrive at ex-VAT prices.

UK Next Day Insured Delivery Charges: Software/Cables, EZCD I/F = £3.00 2.5" Drives, Accelerators, Manuals = £7.00, 3.5" Drives, FDDs, PSUs, SX32 = £9.00, CDPlus, Minitor, Desktop = £11.00, EZTW & EZPC = £15.00. Worldwide in 2-7 days from receipt of faxed order & payment details.

EYETECH

| | |
|---|---|
| Interfaces and Adapters: EZ-Key & DIY Tower Components | |
| FF-EZK2 | Mk 2 AmigaPC k/b adapt -> A1200 kbd direct connect |
| FF-EZK2-A4K | A1200 EZKey Mk2BP -> 5p adapt/A1200 kbd bble |
| FF-EZK2-W55 | Mk2 AmigaPC k/b->A1200 dir connect +Win95 kbd |
| FF-EZK2-E-A | EZKey-SE Amiga 5p DIN k/b adapter for A1200/A600 |
| FF-EZK2-E-A/K | EZKey-SE Amiga -> 5p DIN adapt + A4000 kbd bundle |
| FF-EZK2-E-P | EZKey-SE PC 5p DIN k/b adapter for A1200/A600 |
| FF-EZK2-E-P/K | EZKey-SE PC k/b adapter for A1200/A600 + Win95 kbd |
| FF-HD-2/3 | 2.5"/44way -> 3.5"/44way k/b adapt + 2.5->3.5 mlg bracket |
| FF-HD-3/5 | 3.5" Zip/SQuest/FDD/HD bkr/ipl -> 5" bkr |
| FF-HD-5P8P | AmigaPC k/b adapter 5p DIN -> 8p mid-M |
| FF-HD-6P5P | AmigaPC k/b adapter 6p mid/min-F -> 5p-M |
| FF-HD-6P5P | 5p DIN M - 5p DIN F k/b ext cable 1.2m |
| FF-HD-6P5P | Tower floppie adapter for A1200 int FDD |

| | |
|--|---|
| Interfaces and Adapters: A1200 Ethernet, SCSI | |
| FF-ETH-C | PCMCIA ethernet card with AmigaPC drivers |
| FF-ETH-H | Hydra PCMCIA ethernet card with Amiga drivers |
| FF-ETH-X8C | Crossed twisted pair/RJ45 for Slays 60m |
| FF-SCSI-CSQR | Classic Squirrel PCMCIA SCSI if 50pCM |

Adapters: Flickerfixers, Genlocks, Video Digitisers

| | |
|--|--|
| Adapters, Monitor Switches, Monitor Leads | |
| FF-BVSM-BVSM | BVision 8MB gfx card for A1200 (needs PPC) |
| FF-BVSM-BVSM | SVGA Monitor Switcher - BVision/CVisn & EZVGA INFF2 |
| FF-BVSM-BVSM | SVGA Monitor Switcher - BVision/CVisn & 15pHD InEx SD/FF |
| FF-BVSM-BVSM | M/Sync Monitor Switcher - BVision/CVisn & 23p RGB socket |
| FF-BVSM-BVSM | SVGA Mon/Sw - AleoPico 15pHD Gfx & EZVGA INFF2 |
| FF-BVSM-BVSM | SVGA Mon/Sw - AleoPico 15pHD & 15pHD InEx SD/FF |
| FF-BVSM-BVSM | M/Sync Mon/Sw - AleoPico 15pHD & 23p RGB socket |
| FF-BVSM-BVSM | Auto Amiga/CV64-3D m/sync monitor switch |
| FF-BVSM-BVSM | EZ-VGA-Mk2 compact external s/doubler PLL upgradable |
| FF-BVSM-BVSM | EZ-VGA-Plus compact external SD+FF 23F-15F PLL |
| FF-BVSM-BVSM | SDBL2 to SD-flickerfixer u/g |
| FF-BVSM-BVSM | EZ-VGA internal A1200 s/doubler non-upgrade |
| FF-BVSM-BVSM | EZ-VGA internal A1200 s/doubler for use with BMON |
| FF-BVSM-BVSM | EZ-VGA internal A1200 scandoubler w/ flickerfixer |
| FF-BVSM-BVSM | EZ-VGA internal A1200 SD+FF for use with BMON |
| FF-BVSM-BVSM | EZ-VGA-SE scandoubler-flickerfixer 23F-15F Xtal |
| FF-BVSM-BVSM | Adapter from 15p HD-M VGA to 9p-F |
| FF-BVSM-BVSM | Monitor adapter 9p-F to 15p HD-M |
| FF-BVSM-BVSM | VGA 15pHD-M -> 23p-D M Amiga RGB adapter |
| FF-BVSM-BVSM | Amiga 23p-D -> 15pHD-F VGA adapter |
| FF-BVSM-BVSM | Amiga 23p-D -> 15pHD-F buffered adapter for A4000 |
| FF-BVSM-BVSM | ProGrab 24-RT Amiga par. port video digitiser (no psu) |
| FF-BVSM-BVSM | PSU for ProGrab 24-RT |
| FF-BVSM-BVSM | EZ-Gen composite video Genlock for A1200 |

| | |
|--|---|
| Interfaces and Adapters: A1200 Sound cards & software | |
| FF-PL12-DT | Prelude1200 for A1200 DT console only |
| FF-PL12-TW | Prelude1200 for Tower with/without cable/audio I/O bkr, CD if |
| FF-PL12-UG | Upgrade mode from PL12-DT to PL12-TW |
| FF-PL12-Z | Prelude Zorroll 16-bit full duplex sound card |
| FF-SMP-OP | Samplitude Opus 16 channel, virtual projects, FFT filtering |
| FF-SMP-LE | Samplitude-LE 4 channel, virtual projects, FFT filtering |

Adapters - IDE/ATAPI & software

| | |
|-----------------|--|
| FF-IDE-FLYR | Elbox 4-dev 32 bit high perf bufrd A1200 IDE if |
| FF-IDE-FLYR-SP | ROM spacers for Elbox IDE-Flyer purchased w/ IDE-FLYR |
| FF-IDE-FLYR-SPC | ROM spacers for Elbox IDE-Flyer purchased elsewhere |
| FF-IDE-EZCD4 | Mk4 4-dev bufrd IDE if w/AlPU w/A1200 CDROM s/w |
| FF-IDE-EZCD4C | Mk4 4-dev bufrd IDE if w/3x40, 2x44 13cm cabs, CD s/w |
| FF-IDE-EZCD4CE | Mk4 4-dev bufrd IDE if w/3x40, 2x44 cabs, EZIDE |
| FF-IDE-EZCD4SE | Economy 4-dev bufrd IDE if w/A1200 CDROM s/w |
| FF-IDE-EZCD4SC | Econ 4-dev bufrd IDE if w/3x40, 2x44 13cm cabs, CD s/w |
| FF-IDE-EZCD4CE | Econ 4-dev bufrd IDE if w/3x40, 2x44cabs, EZIDE |
| FF-IDE-CD4 | 4-device IDE if for A4000 w/CDROM s/w |
| FF-IDE-ATAPI | EIDE/ATAPI HD/CDROM/ZIP/LS120/SyQst dvr |
| FF-IDE-EZCD4 | Pix upgrade to EZIDE from competitive product |
| FF-IDE-EZCD4-SP | EIDE/ATAPI enhancer/CDROM Software Bundle Price |

Adapters - Serial, Parallel, Floppy & Clock port expanders

| | |
|--------------|---|
| FF-SER-PTJR | Port/Junior - 480KB serial if for A1200 |
| FF-IOLB-S12 | IOBlix 12S - 1.5Mbps serial if for A1200 |
| FF-IOLB-S12 | IOBlix 12P - EPP parallel port if for A1200 |
| FF-SER-PTPL | PortPlus - 2x 480KB ser + 1x 800KB par if for A1200 |
| FF-IOLB-S22 | IOBlix 22 - 4x1.5Mbps ser + 1x EPP par port Zorroll |
| FF-IOLB-Z2PX | 1x EPP par port expand for INT/IOLB-Z2 (to 4x5x2p) |
| FF-CLK-EX | ClockUp 4-way clock port expander for A1200 |
| FF-FDD-DFO | Interface for std Sony FDD for DFO 880KB |

Cables & Cable Adapters: Audio & Mains

| | |
|--------------|---|
| FF-AUD-CD | CDROM in/rtd t audio cab. 6m + 2xRCA plg |
| FF-AUD-MIX | RCA(phono)-M -> RCA-M-RCA-F Y mixer lead 1.8m |
| FF-AUD-2M2M | RCA(phono)-2M -> RCA-2M stereo lead 1.8m |
| FF-AUD-M/PJH | 3.5mm st minijack->2xphono M plugs 1.2m |
| FF-AUD-RCA | RCA(phono)-M -> 2xRCA-F adapter Y mixer |
| FF-AUD-RCA-G | RCA(phono)-M -> 2xRCA-F gold plated adapt Y mixer |
| FF-IEC-1.5M | AC power cable 13A plug -> IEC skt 1.5m |
| FF-IEC-4X13 | AC powerstrip 1xIEC-M -> 4x13A-F mains skt |
| FF-IEC | Re-wirable IEC monitor plug for PSUs/MT/DT |

Cables & Cable Adapters: Serial, Monitor, SCSI, Printer

| | |
|-----------------|---|
| FF-SER-E2XM | DB25-M -> DB25-F RS232 extn cab 2m for modem |
| FF-SER-E2XOC | DB25-M -> DB25-F RS232 extn cab 0.5m for modem |
| FF-SER-NUL2M | Null modem cable w/ D9F & D25F at each end 2m |
| FF-SER-NUL5M | Null modem cable w/ D9F & D25F at each end 5m |
| FF-SER-NUL10M | Null modem cable w/ D9F & D25F at each end 10m |
| FF-DPT-SER-25FM | 25p-F to 9p-M serial RS232 adapter |
| FF-DPT-SER-25MF | 25p-M to 9p-F serial RS232 adapter |
| FF-SCS-50/60CF | Centronics 50p-F to Centronics 50p-F (for Squirrel) |
| FF-SCS-25D/50C | SCSI cable DB25-M -> Cent50-M 1m |
| FF-SCS-25D/50C | SCSI cable DB25M-DB25M max type 1m |
| FF-SCS-50H/50C | SCSI-2 cable 50pHD-M->Cent50-M 1m for PPC |
| FF-SCS-50H/25D | SCSI-2 cable 50pHD-M->25D-M 1m for PPC |
| FF-PAR-FULL | Bi-directional printer cable all pins connected |

Cables & Cable Adapters: VGA, Keyboard, Switchboxes, Cables, Scart Cables (See also MON, SMON adapters above)

| | |
|--|--|
| FF-DPT-SW-SK | Dual monitor & k/b switchbox |
| FF-DPT-SW-SKM | Dual monitor, k/b & mouse switchbox |
| FF-KBD-MM | 5p DIN M - 5p DIN M k/b cable 1.2m |
| FF-VGA-MF | 15p DIN-M - 15p DIN-F VGA ext cable 2m |
| FF-VGA-MM | 15p DIN-M - 15p DIN-M VGA cable 2m |
| FF-DPT-SCAR-CMP | Amiga comp video (RCA)+2xAudio to SCART |
| FF-DPT-SCAR-RGB | Amiga 23p+2xRCA to RGB TV SCART + audio |
| Cables: HD, CDROM, Floppy, Clock Port Data & A1200 HD Power | |
| FF-HD-PD-40F44 | 2.5" (44F) to 3.5" (40F) data cab adapt for A1200 30cm |
| FF-HD-PD-2F | Power splitter floppy drive to hard drive + floppy |
| FF-HD-PD-30C | 44->40way 3.5" HD data & pwr cabs - A1200 |
| FF-HD-KIT | A1200 full 3.5" hard drive fitting kit |
| FF-HD-22W-9C | 22way-F x2 A1200 clock port cable 9cm o/a |
| FF-HD-24W-50C | 34way-F x2 FDD ribbon cable for tower 50cm |
| FF-HD-20W-20C | 40 way IDE cable 2 connector 20cm |

| | |
|--|---|
| CAB40-3W-1M | 40Way IDE/HD/CD cable 3 connector 1m o/a len |
| CAB40-3W-60C | 40w-F x3 HD/CD/IDE cable 20+40+60cm o/a |
| CAB40-CUST | Custom cable 34way IDE up to 1.5m |
| CAB44-2W-13C | 44way (2.5" HD) cable 2 connector, 13cm o/a |
| CAB44-2W-60C | 44way (2.5" HD) cable 2 connector, 60cm o/a |
| CAB44-3W-12C | 44way (2.5" HD) cable 3 connector, 12cm o/a |
| CAB44-3W-24C | 44way (2.5" HD) 7+17cm, 3 connector, 24cm o/a |
| CAB50-CUST | Custom cable 34way IDC SCSI + 1xCent50-F 60cm |
| Cables: HD, CDROM, Floppy Power Splitters - Tower Systems | |
| CABPW-1W-1F | Power converter cab HD-M - FDD-F |
| CABPW-2W-1H1F | HD/FD power splitter HD-M->1xHD-F/1xHD-F |
| CABPW-2W-2F | FDD power splitter 4pM->2x2F-F |
| CABPW-2W-2H | HD/CD power splitter 4pM->2x 4p-F 15cm |
| CABPW-3W-2H1F | HD/FD power splitter HD-M->2xHD-F/1xHD-F |
| CABPW-3W-3H | HD power splitter HD-M -> 3xHD-F |
| CAB-HD-PWXTN | 4p-M -> 4p-F HD/CD power cab ext 90cm |
| CAB-HD-FD4 | 23p-M-floppy -> 4p-F HD/CD power 90cm |

New - ISDN Term Adapters, 56k Modems & Net Access Bundles

| | |
|-----------|--|
| NET-ISP | One time setup/unlimited usageloan ongoing net access charge (0845 call charges only) with 25MB web space, 10 email addresses, 90 days free net support. |
| NET-ISP-1 | 128Kbps ISDN T1A + NET-ISP as above |
| NET-ISP-2 | 128K ISDN T1B, Netconnect 2 + NET-ISP |
| NET-ISP-3 | 56K fax/voice modem + NET-ISP as above |
| NET-ISP-4 | 56K fax/voice modem, Netconnect 2 + NET-ISP |
| MOD-56K | 56K Voice/Data/Fax Modem External inc serial cable |
| MOD-150N | 128K External ISDN terminal adapter inc serial cable |
| NET-REF | Internet Reference Book by D. Winder |
| NET-AC2 | Netconnect 2.2 software |

CDROM Systems including EZ-Tower & MT/DT Bundles

| | |
|---------------|---|
| CD-SE-24X | CDPlus-SE system 24 speed with CDROM s/w |
| CD-SE-32X | CDPlus-SE system 32 speed with CDROM s/w |
| CD-DTMT-24X | CDPlus Desktop/Minitorwer 24 x with CDROM s/w |
| CD-DTMT-32X | CDPlus Desktop/Minitorwer 32 x with CDROM s/w |
| ADPT-AUD-CDSE | CDPlus-SE A1200 CD audio mixer/adaptor |
| CAB44-CD-13C | 44way (2.5" HD) cable purch with CD/HD 13cm |
| CAB44-CD-60C | A1200 IDE skt adapt 40F-40M with mfgs 15cm |
| CD24-BARE | Bare 24 speed CDROM mechanism for twr/A4k |
| CD32-BARE | Bare 32 speed ATAPI CDROM mechanism for twr/A4k |

CDWriter/ReWriter Systems inc. EZ-Tower & MT/DT Bundles

| | |
|---------------|--|
| CDR-BARE-2X8 | EZWriter Mechanism (no MakeCD) |
| CDR-IN-2x8 | EZWriter 2/8x with MakeCD for A4000, Tower |
| CDR-SE-2x8 | EZWriter-SE external 2/8x with MakeCD |
| CDR-DTMT-2x8 | EZWriter Desktop/Minitorwer 2/8 speed with MakeCD |
| CDR-PL-2x8 | EZWriter-Gold external 2/8x with MakeCD |
| CDRW-BARE-226 | EZReWriter Mechanism (no MakeCD) |
| CDRW-IN-226 | EZReWriter 2x2x6 w/MakeCD for A4k, Twr |
| CDRW-SE-226 | EZReWriter-SE external 2x2x6 w/MakeCD |
| CDRW-PL-226 | EZReWriter-Gold external 2x2x6 w/MakeCD |
| CDR-CDSE-UG | EZCD-SE-40+44way cabs + CDROM s/w w/CDR |
| CDR-CDM-UG | EZCDM-44+44way cabs + EZIDE s/w w/CDR |
| CDR-CDPL-UG | IDE-Flyer high-speed IDE if, s/w, cabs purch w/CDR |
| CDR-DSK-10 | Recordable CD media (WORM) 650MB x10 |
| CDR-DSK-10-SP | Recordable CD media 650MBx10 pur w/EZWriter |
| CDRW-DSK | Single CDrewritable disk 650MB |
| CDRW-DSK-SP | Single CDrewritable disk 650MB pur w/EZReWriter |
| DVR-MCD-TAQ-P | MakeCD TAQ (PI) Amiga CD rec s/w w/ATAPI |

EZTowerZ4 Systems, Z4 busboard expansions

| | |
|-----------------|---|
| CASE-DT24 | DIY EZTower-Z4 250W PSU, LED adapt, FD cab/plg |
| CASE-DT24-PL | DIY EZTower-Z4 250W PSU, EZKey, PC kbd, FD cab/plg |
| CASE-DT24-PLZ | DIY EZTower-Z4, EZKey, PC kbd, FD cab/plg 24 slots |
| CASE-DT24-PLZ-S | DIY EZTower-Z4 & Z4 adapter as above until April 1999 |
| CASE-RT24 | Ready-to-Use EZTower-Z4 250W PSU, LED adapt, FD cab/plg |
| CASE-RT24-PL | RTU EZTower-Z4 250W PSU, EZKey, PC kbd, FD cab/plg |
| CASE-RT24-PLZ | RTU EZTower-Z4 250W, PC kbd/adapt, FD cab/plg, 24 slots |
| CASE-RT24-PLZ-S | RTU EZTower-Z4 & Z4 adapter as above until April 1999 |
| ADPT-Z4 | Z4 adapter for A1200 5x22, 2x22, 2x20c ports |
| ADPT-Z4-SP | Z4 adapter as above list 100 orders |
| CASE-FT44UG | EZ-Tower upgrade from PC to A4000 k/b (time of purch) |

EZTower Systems, MiniTower/Desktop Cases & Accessories

| | |
|-----------------|---|
| CASE-FTDIY | EZTwr Mk4 kit w/250W, FD cab/plg, bkrpl for self conv'n |
| CASE-FTDIY-PLUS | EZTwr kit w/250W PSU, EZKey, PC kbd, FD cab/plg |
| CASE-FTRTU | Ready-built EZTwr 250W PSU, LED adapt, FD cab/plg |
| CASE-FTRTU-PLUS | Ready-built EZTwr 250W, EZKey, PC kbd, FD cab/plg |
| CASE-DT | Desktop case with 200W+ psu for HD/CDROM |
| CASE-MT | MiniTower case with 200W+ psu for HD/CDROM |
| CASE-FT44UG | EZ-Tower upgrade from PC to A4000 k/b (time of purch) |
| CASE-FT-EXTK | EZ-Tower conversion kit - No PC Tower |
| ADPT-AUD-EZTW | EZTwr audio mixer/adaptor for A1200/CDROM |
| ADPT-SCSI-EZTW | EZTwr SCSI adapt 30cm 2xCent50F, 1xIDC50F |
| ADPT-PWR-PPC | 2nd A1200 m/bd powered adapter (if req'd) for PPC acc |
| CAB-SER-SSQ | 9pDM->9pDFF S/Sq EZTwr ser extn cab 50cm |

SVGA Monitors - require SD and/or FF to use all Amiga modes

| | |
|----------------|---|
| MON-14-28 | 14" dig SVGA 0.28DP 1024x768 @60Hz |
| MON-15-28 | 15" dig SVGA 0.28DP 1024x768 @60Hz |
| MON-17-28 | 17" dig SVGA 0.28DP 1280x1024 @60Hz |
| MON-17-25 | 17" dig SVGA1600x1200/25DP/1600x1280/75Hz Diamondtron |
| ADPT-MON-SEFF | EZVGA-SE ext flickerfixer purch w/ monitor |
| ADPT-MON-M2SD | EZVGA-Mk2 ext s/dblr u/g cable purch w/ monitor |
| ADPT-MON-PLFF | EZVGA-Plus ext flickerfixer purch w/ monitor |
| ADPT-MON-NSD | EZ-VGA internal s/doubler purch w/ monitor |
| ADPT-MON-NSD2 | EZ-VGA internal s/doubler purch w/ monitor for BMON |
| ADPT-MON-INFF | EZ-VGA internal f/xfr purch w/ monitor |
| ADPT-MON-INFF2 | EZ-VGA internal f/xfr purch w/ monitor for BMON |

Digital Cameras and Amiga Digital Camera Software

| | |
|---|--|
| DVR-CAM-CAS | CamControl s/w for Casio QV10/100/300/700 |
| DVR-CAM-FUJ | CamControl s/w for Fuji DSS/DST/DX7/DX9 |
| DVR-CAM-KOD | CamControl s/w for Kodak DC20/DC25 |
| DVR-CAM-MIN | CamControl s/w for Minolta Diimage |
| INT-12P-PTJR-SP | Port/Junr hi-speed ser if pur with CamControl s/w |
| Application Software & Drivers | |
| ASW-MM400 | Scale MM400 on CD |
| ASW-MM400-UG | Scale MM400 on CD with u/g from MM300 |
| DVR-TBPR7 | TurboPrint 7.x Amiga printer driver (English) |
| DVR-TB67-UG | TurboPrint 6.x to 7.x upgrade (send TB6 disk with order) |
| DVR-TB7-703D | TurboPrint 7 to 7.03 upgrade |

Amiga Image Conversion/Effects Software, Scanner Software, Scanner Bundles and Adapters

| | |
|-------------------|--|
| SCN-FBA4-BDL3 | UMAX award-winning SCSI A4FB scanner with PScope |
| DVR-SQ4 | ScanQuik4 + 1 driver (Epson/HPI/Amtec) |
| SCN-QUIK4 | ScanQuik4 + 1 driver (UMAX) |
| DVR-SQ4-UG | ScanQuik3 to SQ4 upgrade (trade-in & receipt req'd) |
| DVR-PHS | PhotoScope UMAX-SCSI Amiga Scanner Driver |
| ASW-UCV4 | Ultraconv 4 Graphics, animation & effects Amiga s/ware |
| ASW-UCV4-SP | Ultraconv 4 Graphic s/w ext purch with ScanQuik4 |
| CAB-SCS-25D/50C-S | SCSI cable DB25-M -> Cent50-M 1m pur with scanner |
| CAB-SCS-25D/25D-S | SCSI cable DB25M-DB25M max type pur with scanner |

| | |
|---------------------|--|
| CAB-SCS-50C/50C-S | SCSI cable Cent50M->Cent50M 1m pur w/scnr |
| CAB-SCS-50H/50C-S | SCSI-2 cable 50pHD-M->Cent50M 1m for PPC pur w/scnr |
| CAB-SCS-50H/25D-S | SCSI-2 cable 50pHD-M->25D-M 1m for PPC pur w/scnr |
| ADPT-SCS-CSQR-SP | Classic Squirrel PCMCIA SCSI if 50pCM pur w/scnr |
| ACC-SCS-BUM-S | SCSI/Simm socket for B1 1230/50 Mk4 pur w/scnr |
| ADPT-SCS-50/50CF-SP | Centronics 50p-F to Centronics 50p-F (sq) pur w/scnr |
| ADPT-SQ3-PAR | SQ3 adaptor Epson scanner -> parallel port cable |
| CAB-PAR-FULL | Bi-directional printer cable all pins connected |

Hard & Floppy Drive, CDROM, LS120 & Zip Mech. & Cases

| | |
|--------------|--|
| FDD-ITL-1200 | Replacement A1200/600 int FDD 880KB |
| FDD-ITL-BARE | Bare 1.44/880 Sony FDD for tower (needs EZDFO/Catws) |
| FDD-ITL-DIC1 | Twr int 880KB FDD (Sony/EZDFO/cable bundle) |
| FDD-ITL-D1 | Twr int 880KB FDD (Sony/EZDFO) No cable |
| HD2-21 | 21MB 2.5" hard drive 90 days warranty |
| HD2-170 | 170MB 2.5" hard drive |
| HD2-180 | 260MB 2.5" hard drive |
| HD2-2.4 | 1.4GB 2.5" hard drive for Amiga |
| HD2-3.2 | 3.2GB ultra slim 2.5" drive, 8mm high (2 fit in std A1200) |
| HD2-4.1 | 4.1GB ultra slim 2.5" drive, 8mm high (2 fit in std A1200) |
| HD2-2.5 | 2.5GB 1"x3.5" IDE drive for tower |
| HD2-3.2 | 3.2GB 1"x3.5" IDE drive for tower |
| HD2-4.3 | 4.3GB 1"x3.5" IDE drive for tower |

| | |
|---------------|---|
| HD3-LS120 | Panasonic LS120 Floppy/Optical 1.4/120MB |
| HD3-LS120-CT3 | 3-pack of LS120 (nominal) LS120 carts |
| HD3-ZIP-CT1 | Single 100MB (nominal) Zip cartridge |
| HD3-ZIP-CT3 | 3-Pack of 100MB (nominal) Zip cartridges |
| HD3-ZIP-IDE | Bare ATAPI/IDE Zip drive internal |
| CAB44-CD-13C | 44way (2.5" HD) cable sold with CD/HD 13cm |
| CASE-ZIP | Metal slim case-FDD/IDE/ZIP/SQuest/LS120 |
| CASE-HD-ECON | External 3.5" HD case no psu |
| CASE-HD-REM | Removable drive case for 3.5" HD (metal) no psu |

Keyboards, Mice, PSUs, Misc. Hardware

| | |
|-------------|--|
| FAN-60MM | Cooling fan for A1200 80x60x25mm 5/12v |
| KBD-A1000 | A1000 keyboard with 6-pin mini-Din cntr |
| KBD-A1200 | Replacement A1200 k/b w/ribbon cable |
| KSD-A4000 | A4000 keyboard with 6-pin mini-DIN plug |
| KBD-WIN95 | Windows 95 keyboard with 5-pin AT DIN plug |
| MOU-WHI | Amiga Mouse |
| PSU-100 | 100w PSU for Amiga (fit your old lead - inc instrns.cntrs) |
| PSU-200 | 200w PSU for Amiga (fit your old lead - inc instrns.cntrs) |
| PSU-230 | 200/250w replacement PSU for MT/DT/FT |
| PSU-A1200 | A1200 23W PSU (original) 90 days warranty |
| SPK-60W-INT | 5.25" Bay Internal mounting 60W PMPD speakers/amp |
| SPK-240W | 240W PMPD speakers w/ PSU 3.5mm jack, AC mains PSU |
| SPK-600W | 600W PMPD AC mains spkrs w/ subwoofer |

Accelerators: PowerPC with 680x0 Co-processor

| | |
|------------------|---|
| ADPT-VGA-8V8M-SP | BVision 8MB A1200 gfx card pur w/ PPC acc |
| ACC-PPC-16-4025 | Blitz PPC603/160MHz/040/25FPU no SCSI |
| ACC-PPC-16-6050 | Blitz PPC603/160MHz/060/50FPU no SCSI |
| ACC-PPC-24-4025 | Blitz PPC603/240MHz/040/25FPU no SCSI |
| ACC-PPC-24-6050 | Blitz PPC603/240MHz/060/50FPU no SCSI |
| ACC-PPC-16S-4025 | Blitz PPC603/160MHz/040/25FPU/SCSI-2 |
| ACC-PPC-16S-6050 | Blitz PPC603/160MHz/060/50FPU/SCSI-2 |
| ACC-PPC-24S-4025 | Blitz PPC603/240MHz/040/25FPU/SCSI-2 |
| ACC-PPC-24S-6050 | Blitz PPC603/240MHz/060/50FPU/SCSI-2 |
| ADPT-PWR-PPC | 2nd A1200 m/bd powered adapter (if req'd) for PPC acc |

Accelerators: Apollo 680xx

| | |
|--------------|--|
| ACC-060-75LC | Apollo 060 MMU/77MHz A1200 acc (lim avail) |
| ACC-060-66 | Apollo |

THE WORLD OF AMIGA

'99

**Kensington Town Hall
(opposite Kensington
tube station), London**

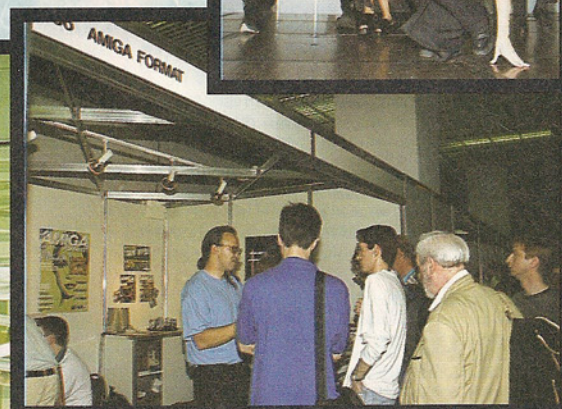
July 24th and 25th, 1999



Come to Kensington Town Hall for this year's exciting World of Amiga show! Amiga Inc. will be there, as will a host of familiar Amiga dealers and developers. Try out the Internet in our Cybercafé, get gaming against other Amiga users, register Shareware there and then and loads, loads more!

The show is open from 10am-5pm Saturday and from 10am-2pm Sunday. Tickets cost £7.50 for adults and £5.00 for children.

☎ 01369 708004 for details.



SCREENPLAY

The latest games, hints and some clever programming from you!

Another month in the Amiga games world and yet again nothing new or exciting... But hold on a second! Isn't that underground *Doom*-like blaster that Ben's playing actually rather good? As in Amiga Format Gold Award good?! Yes, the first port of *Hexen* dropped into our eager mitts this month and we were blown away by it. But not as blown away as the monsters in it were...

There's also sneak peeks at the upcoming new releases, with the rather bad news about *Settlers 2* countered by two very impressive-looking new titles. Along with the usual mixed bag of your own homemade programs, it's actually not that bad a month for games at all...

Mark Wheatley

AMIGA FORMAT'S REVIEW POLICY

WHAT OUR REVIEW SCORES MEAN

Every month we scour the world's software houses for the latest and greatest Amiga games. We try to ensure we keep you as up to date as possible and we'll stop at nothing to bring you the best, definitive, no-nonsense reviews of the games that matter.

| | |
|------------------|--|
| 90+% | The crème de la crème. Only the very best, most playable and original games are awarded an AF Gold – the most highly prized rating there is. |
| 80-89% | These games are very good, but due to minor flaws they're not the finest examples of their genre. |
| 70-79% | Good games which are worth buying, especially if you have a special interest in a game type. |
| 60-69% | Average releases with somewhat limited gameplay and appeal. Games in this category tend to be flawed. |
| 50-59% | Below average games which are unlikely to impress your mates or your wallet.. |
| 40-49% | Overwhelmingly poor quality games with major flaws and appalling gameplay. |
| Under 40% | The absolute pits. |

26 PREVIEWS

Richard Drummond looks at *Phoenix* and ACSYS and has news about *Settlers 2*.



ACSYS (above left) is very much in the Turricon mold, while *Phoenix* (above right) is inspired by *Elite*.

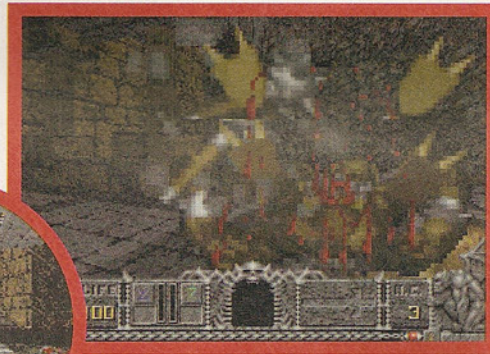


28 HEXEN

Ben Vost gets aggressive with this potential *Doom* beater.



There's a great choice of weapons and really varied gameplay in *Hexen*.



Death in close up is always messy, but more so with *Hexen*'s graphical limitations.

32 GAMEBUSTERS

All of *Quake*'s cunning secrets spoiled and ruined by Ben Vost.



Quake signs are a dead giveaway for secret areas, but we show you how to all of them.

30 READER GAMES

Mark Wheatley finds bats and elves hidden amongst this month's pile of *Breakout* clones...

Legend of the Elves. . . . Peter Armann A *Monkey Island*-like.

Squares/Megabounce. . . . M. Townsend *Breakout* and *Crazy Painter*-alikes.

Ozz Feast. . . . Samuel Brookes Erm, like nothing else, really. I'm scared.



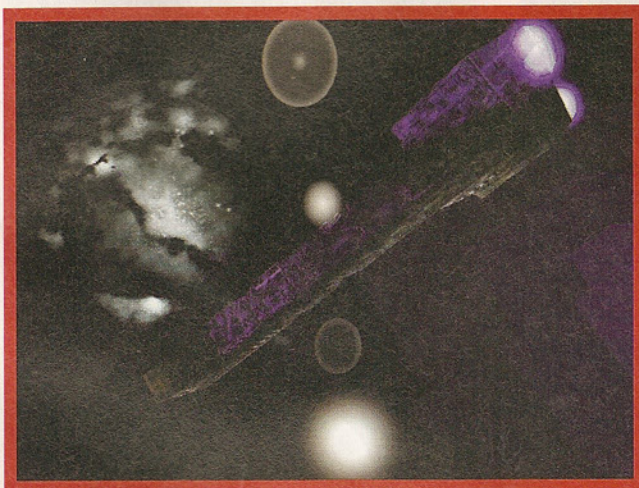
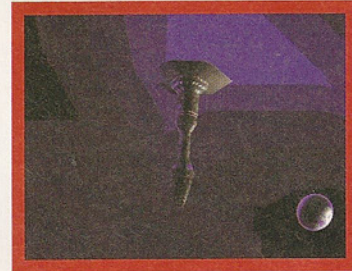
Monkey Island-style shenanigans abound in *Legend of the Elves*.

Previews



Richard Drummond proves that Amiga game development is still alive and kicking with a look at some forthcoming releases.

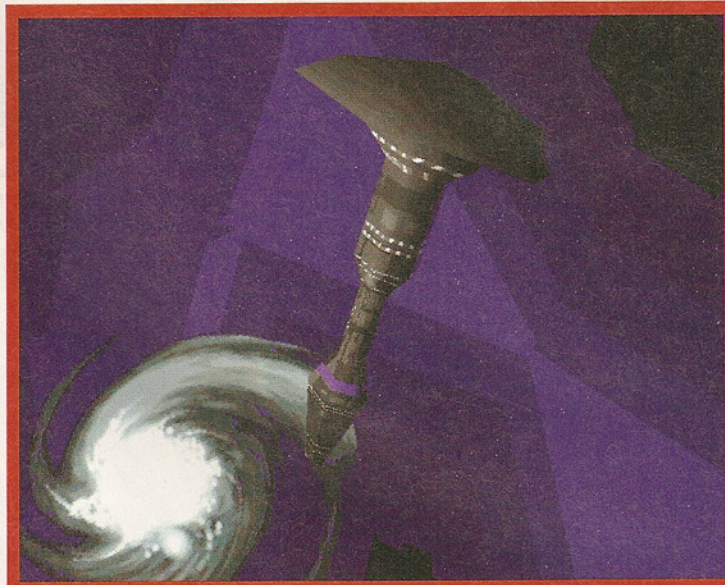
Phoenix



The swirling thing's getting closer, Captain.

Not to be confused with Bitwise's Thrust-inspired *Phoenix Fighters*, *Phoenix* from Future Tales is a 3D space combat/adventure extravaganza with more than a nod and a wink to the classic *Elite*. It seems that the Amiga will be more than well catered for in this genre with the promised *Lambda* and *Explorer 2260* as well.

Details of *Phoenix*'s 3D engine specifications are mouth watering:



White swirly-thing alert, Captain!

multiple dynamic light sources, background fog, real-time lens flares, missile trails, animated textures, engine glow, debris, shockwaves, etc. Of course, this level of detail exacts a heavy hardware toll. Minimum requirements will be a 68040/40Mhz with an '060 being recommended.

Thankfully, the game will also support PPC accelerators and 3D hardware, so

gamers with high-end machines can get blazing game speeds.

Phoenix will be distributed by APC & TCP. More details can be found at the Future Tales website: <http://members.tripod.de/FutureTales/>



In space, no-one can hear you finish a sente...



Phoenix looks like it will be following in the tradition of the epic space opera.



ACSYS



The unpronounceably-titled ACSYS from Unique was announced way back in 1997. News on the project has been non-existent recently, but development of the game is continuing. ACSYS is a platform shoot-em-up firmly in the mold of *Turrican*.

The setting for ACSYS - welcome to purple world.



Who wants to have a bit of toasted bad guy for breakfast?



ACSYS gameplay will consist of three distinct modes of level and boasts features such as full-screen, 50fps graphics, shooting in 360° and intelligent enemies. Minimum hardware requirements will be an '030-equipped AGA Amiga, 4Mb fast RAM and a 4x CD-ROM drive. For further details, see: <http://www.rz.tuilmnau.de/~sobotta/acsys.html>



Unique's *Turrican*-beater (hopefully!) in action. Make sure you watch out for the flames...

Settlers 2 in doubt

Rumours are circulating that the in-progress Amiga port of Blue Byte's god game, *Settlers 2*, has been cancelled. Titan Computer, who were producing the Amiga version, had apparently completed porting the game engine, needing only the graphics and audio to be supplied, but Blue Byte balked and refused to even sign the licence agreement.

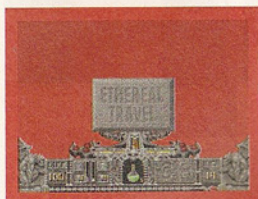
A campaign has been launched by disappointed Amigans in an attempt to get Blue Byte and Titan to resolve their differences. If you don't want to see all of Titan's hard work go to waste, visit the campaign website at this address: <http://www.angusm.demon.co.uk/AGD/B/Sett2.html> and show your support for the project.



Settlers 2 running on a PC. Will we ever see an Amiga version?

Hexen

Ben Vost trawls the magical depths of Hexen.



The words "Ethereal Travel" just mask loading time.

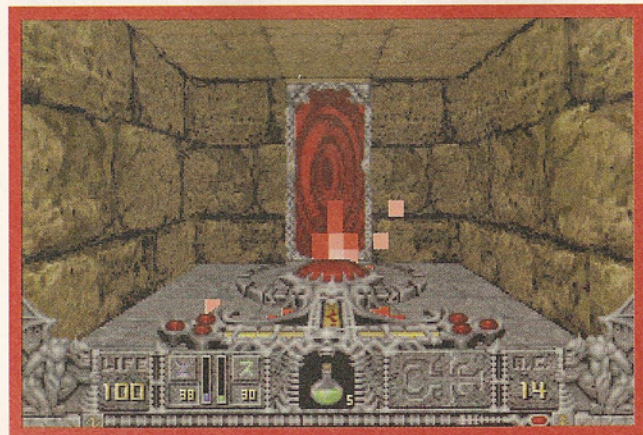
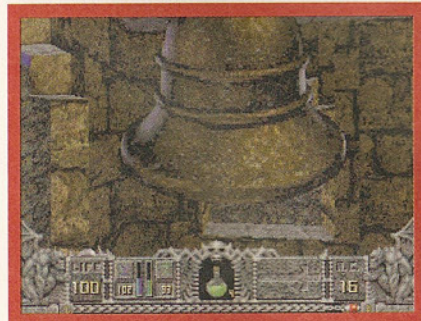
The latest free source game to be released, *Hexen* uses the *Doom* engine, but it's a far better game which has more in common with games like *Tomb Raider* than the simple shoot-em-up that *Doom* is.

There are trappings of D&D-style RPGery, including the fact that you choose whether to be a fighter, cleric or mage at the start of the game, with the obvious strengths and weaknesses

66 The weapons are more imaginative than *Doom* and overall it seems to be a better thought-out game. 99

familiar to us all from a lifetime of such games. You collect mana and potions, and while the RPG stuff is more Tunnels and Trolls than D&D, it certainly adds up as you improve your armour class, weapons and so on.

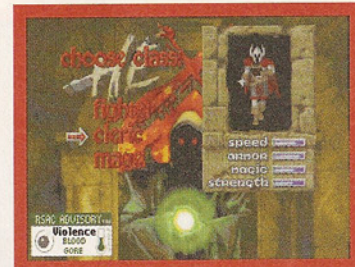
The version of *Hexen* I played was the *Hexen_68K* port by Christian Sauer (v0.45) which allows for mouse play, sound and music, but there are ports to suit PPC boards



Banging on the bell is a nice touch for the end of the first level, and the red things signify portals for ethereal travel.



Choose a warrior, any warrior.

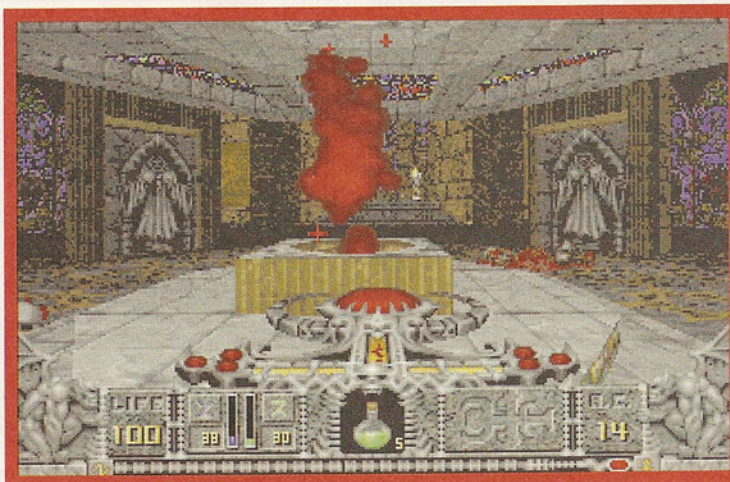


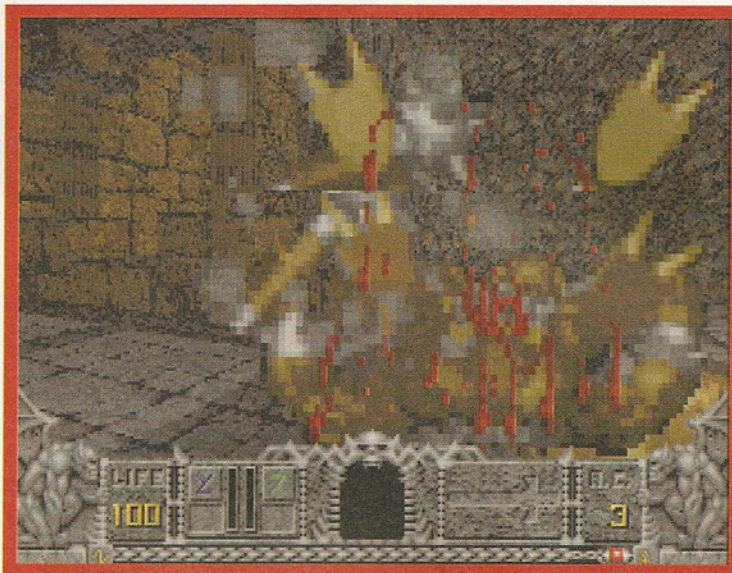
(both WarpUp and PowerUp flavours) too. In any case, the requirements are slightly more stringent than for *Doom* since there's a lot more going on in *Hexen*. For example, it allows you to look up and down and there are a lot more peripheral features, such as leaves blowing in the wind, for the game to keep track of.

The game itself is a lot more colourful than *Doom*, and although it sticks to the messy sprite look of its parent game, the monsters seem better-defined too. Of course, once you've got used to the true 3D of

Quake, it's hard to go back to the pseudo-3D of games like *Doom* and *Hexen*, but because they move a lot faster and are more colourful, it means the games can often have more depth, and this is certainly true here. There are falling rocks, puzzles galore, resources you need to conserve if you're using them for weapons, plus weapons that do different things depending on which class you are, and so on.

The idea of the game is fairly *Doom*-like. Wander through the levels pulling switches and pushing





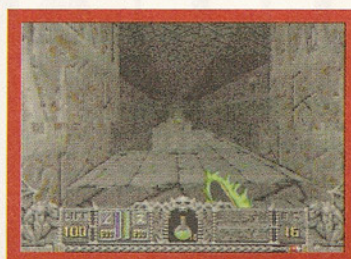
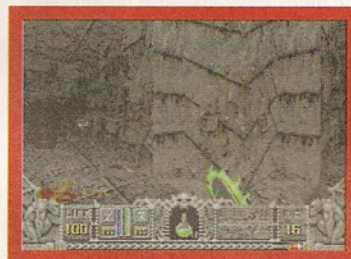
Sprite-based baddies do get a bit messy close up.

buttons, shooting the bad guys. There aren't as many weapons per character as there are in *Doom*, but the ones you find are pretty good fun, particularly the cleric's big weapon which fires out the souls of the dead to rend apart the bad guys.

The only problem with the game is its poor keyboard control which you can't remap. The keys chosen are in awkward places. For instance, the fire control is CTRL, but the run and sidestep modifiers can only be reached from the right shift and alt keys respectively, making it very awkward to strafe as you run.

I'm pretty sure this is a limitation of the PC original as it's not something that can be changed by any of the porters (except presumably by remapping the raw key codes), but it still makes the game more difficult to play than it should be.

Other than that, the weapons are more imaginative than *Doom*, the storyline's more involved and overall it seems to be a better thought-out game. It doesn't have the extensibility that *Doom* has, but it's great fun nonetheless.



The graphics are a lot more varied than those in *Doom*.



Weapons galore

You get the chance to have four different weapons per character for a total of twelve different means of beating up baddies. They are as follows:

Warrior

FISTICUFFS: All you start with, and it takes ages to beat someone, or something, up. The *Hexen* equivalent of an axe in *Doom*.

AXE: A hefty axe which glows when you have blue mana. It still does damage if you don't, but not as much.

HAMMER: If your enemy is at range this will fire out mini explosive hammers which seem to do a lot of damage. If they're up close, this hammer either hits them in much the same way that a toffee hammer would, or it really clouts them.

RUNESWORD: Groovy! The kind of weapon you wait ages for. It fires out five fireballs for distance-bashing and is still a swordy kind of implement when the baddies are close by.

Cleric

MACE: The cleric's starting weapon. Looks meaty, but does about as much damage as the warrior's bare knuckles.

SERPENT STAFF: The *Hexen* equivalent of a machine gun, this chucks out fireballs pretty swiftly.

BURNY HANDS: Share the flames around with a mystical gesture and you can set everyone else on fire. This is sloooooow, though.

WRAITHVERGE: Absolutely the best weapon in the game as far as I'm concerned. This fires out ghosties which seek out lifeforms and chop them up.

Mage

BLUE DIAMOND STAFF: It spits out little bits of fire. On a par with the other characters' first weapons.

FROSTY HANDS: This one spits out loads of bits of ice and can freeze your enemies. Sorry, enemies.

ELECTRIC HANDS: This one shoots a bolt of lightning from your fingertips. It doesn't move very fast so it's fun to watch the baddies trying to make a run for it with this after them.

RED STONE STAFF: Three fireballs. Auto-aim. Nasty, but what did you expect for a wizard's top weapon?



AVAILABLE FROM: Alive mediasoft (01623) 467579

REQUIRES: Requirements vary, but at least '030/25MHz and 8Mb RAM

PRICE: £15

Pros and Cons

- ☒ Great gameplay.
- ☒ Lovely graphics and sound.
- ☒ Three characters to choose from.
- ☐ Bad keyboard layout.

OVERALL VERDICT:
A superb 2.5D game which is much better than *Doom*.

90%

HEXEN



Elves, bats and caterpillars? Mark Wheatley should avoid those funny mushrooms while playing the...

Reader Games

AFCD40:-ReaderStuff-/ReaderGames-

ON THIS
MONTH'S CD

And they're magic too, with adventuring, arcade action and shoot-em-up blasting this month. Although, as usual, there's plenty that could be improved upon, and here's your first stop for advice.

Not only do we offer tips on how to improve your games, we

mercilessly slag them off too and... no, hang on. Although we may do that in exceptional circumstances, we're here to encourage you to develop your game writing skills and to basically bribe you by offering a lovely fifty quid to the best game of the month. We may also be bringing

you some game writing tutorials in the coming months, if enough of you are interested.

Let us know if you are and what you'd like to brush up on and we'll see what we can do. Anyway, on with the games...

Game Legend of the Elves

OF THE MONTH
£50
WINNER!

READER WARRANT

When you're sending in your submissions make sure you also give us:

1. An address where you can be contacted.
2. Details of the language used to create the game.
3. A recent photo of yourself.

The address to send your stuff into is:

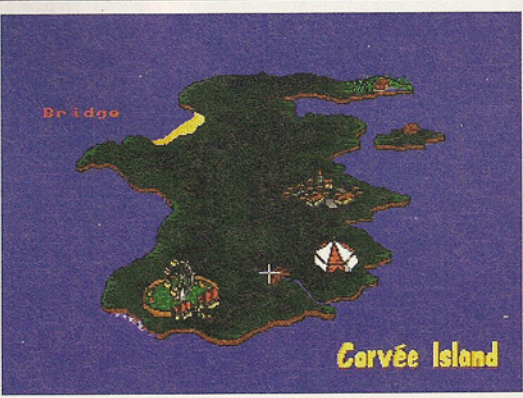
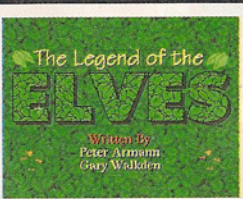
Reader Games • Amiga Format • 30 Monmouth Street • Bath • BA1 2BW

Everything included on the AFCD must have a reader warrant with it. Just cut it out off this page, sign it and send it in to us with your game and a recent photograph of yourself. A last reminder: if you don't include this warrant we simply won't be able to put your game on the CD - that means you won't be able to have it judged by other readers.

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3. That there are no legal claims against the material provided;
4. That I have full power and authority to provide this material to Future Publishing.

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This is a pretty accomplished adventure game, with its tongue firmly lodged in its cheek. 'Hmm,' you may be thinking, 'It sounds suspiciously like *Monkey Island*.' Well you'd be right, but it's nice to see someone taking such a fantastic game as an influence (well, to rip off, really), as opposed to the usual sack full of *Breakout* clones we normally receive.

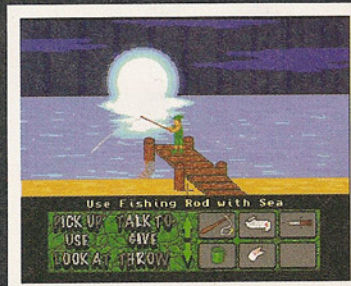
Anyway, the plot. You're an elf and on returning home you discover that your family

has been kidnapped by Evil E. Witch, your typical gnarly crone who cackles a lot. After listening to your character sobbingly explain how much he loves his ole mum, dad 'n' sibling, you have to set off to raise the ransom in order to rescue them.

The control system is typical of point and click adventures. If your mouse moves over an item you can interact with, it's highlighted and you can then look at, pick up, use, talk to, etc. The conversations are very much in the *Monkey Island* style of humour and there's a fair selection of characters to talk to, from the shoeless tramp, the



The village is a good place to meet people. Don't buy the beans, though.



Fishing in the moonlight - you never know what you might find...

Ozz Feast

This is another mad effort from the author of *Snake Wars* (AF120), the game where you had to drive injured soldier snakes to a snake hospital. As you do. Anyway, the plot behind *Ozz Feast*, in case you couldn't guess, is to wing bats. Not shoot them dead, but just wing them so they'll fall to the floor, from where heavy metal legend Ozzy Osbourne

can bite their heads off. Now some may see these ideas as the work of genius, and I know I normally encourage people to spend weeks slaving over their efforts, but Sam, I really think you should be getting out a bit more...

On to the game then. You have a crosshair on the screen which is moved by the mouse and at irregular intervals a bat will appear. Move the crosshair onto the wing of a bat and shoot it. Blast its head and you'll be restarting the level. Unfortunately, if you also miss any bats you get to restart the level too.

Don't shoot it in the head or you'll be restarting the level.



Although the various screenshots don't show it, we didn't get

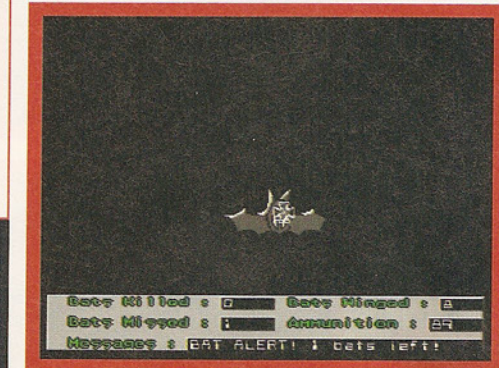
past level one. The reason, and for once it's not because we're inept, is because the bats appear for a random length of time, and some just appear for a second. If you randomly spray the screen with bullets you might stand a chance of winging these bats but you're also likely to shoot them dead. Restart.

The game is that simple, and unfortunately it's also that dull. Why not spend your time looking at the website for the Bat Conservation Trust (<http://www.bats.org.uk>) instead - you'll find that it's a much more interesting way to spend your time.



Wing the bat and you score points, but really, it's not that much fun.

AUTHOR: Samuel Brookes
LANGUAGE: Amos
VERDICT: It works, but it's frustrating, too limited in gameplay and too dull to keep you playing for long.



policeman at the fair and the woman at the post office with the nice jumper and the mad cat from Hell. And remember that it's not big or clever to try to pick up rich men...

It'll take a bit of exploration before you start to get any idea of what you should be doing, but the game map isn't intimidatingly huge and it's fun to interact with the people and animals you find along the way. It's also not too tricky to start piecing together the little puzzles and working out who needs what, and as such it's very easy to get sucked into the game.

I won't spoil the ending for you (nothing to do with the fact that we're stuck in a cellar with some ale, a key, some string and other bits and bobs with no idea of how to get out, oh no). I'll just recommend that you boot this up, get adventuring and have a laugh at the same time.

The game was originally going to be in two parts, with the second taking place on another island, but development ceased after this first part. If enough people like it and write in to tell us, maybe we can persuade Peter to code part two. Hopefully this month's well-deserved Reader Games £50 prize will help him consider it too.

Legends of the Elves also has its own website under construction at <http://members.aol.com/EricElf/>.

AUTHOR: Peter Armann
LANGUAGE: Amos Pro
VERDICT: If you liked *Monkey Island 1 and 2* (and if you didn't, what's wrong with you?!), you'll like this as it's more of the same.

Squares & Megabounce

Oh come on, please! Every Amiga owner on the planet must have *Breakout* clones coming out of their ears by now! Fair enough, *Megabounce* is bright, has a good selection of bonuses, works well and is quite fun, but we've seen it a hundred times before. You'll see better versions than this, and much

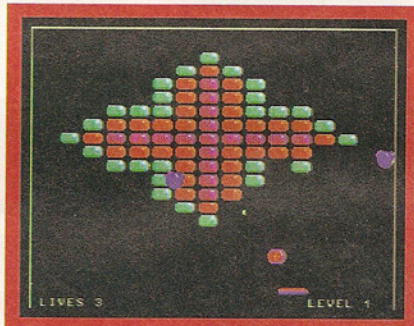
worse ones too, but can't we have some games that are original instead?

Squares then.

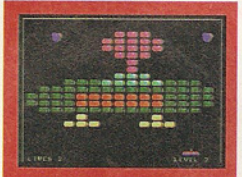
This is a *Crazy Painter* clone and, like *Megabounce*, it's bright, simple and quite fun. You have to move your caterpillar round a grid and every square you pass over will change colour. Move over the whole grid and you get onto the next level. Beware of the floating, fiendish frogs who wander around the grid and keep your eyes open for the occasional bonus, plus helpful items like trampolines that can bounce you up to the top of the screen.

Mark is obviously a pretty proficient programmer with a good idea of what makes a game addictive and enjoyable, as these two efforts show, but it would be much better to see something original. Even though the reader game winner this month is a straightforward clone, at least it's had some original thought put into it and it's not the sort of game we often receive here at AF Towers.

Squares and *Megabounce* are both fine examples of their type of game but you're unlikely to need more versions of them. And please, please, please, don't send any more *Breakout* clones!

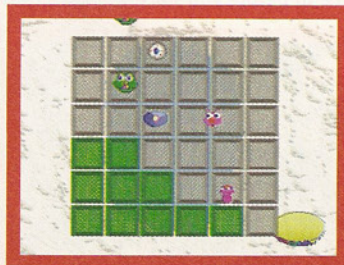
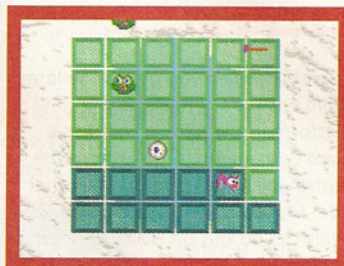


There's a good selection of bonuses to be collected in Megabounce.



Breakout. Again. Although it is quite a nice version, to be honest.

AUTHOR: M. Townsend
LANGUAGE: Amos
VERDICT: Both are good versions of classic games, but something original would really have been appreciated a lot more.



Colour in the squares, avoiding the bad guys.

GAMEBUSTERS!

THE COMPLETE Quake SOLUTION

PART
5

Ben Vost leads you through the second and harder half of *Quake*, finding all the secrets.

We left off last issue having finished two of *Quake*'s four chapters, and this time we're going to look at the latter half of last year's top Amiga game. Without further ado, let's press on, as Claire Rayner might say, and head straight into the action...

Episode 3:

Netherworld

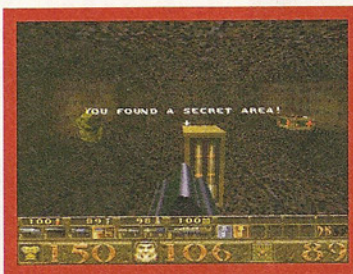
1. Termination Central

The best thing about this level is the fact that you can go through it picking off bad guys at a distance. Well, at least you can if you cheat and get all the weapons. With the shotgun alone it's not so easy and it's a bit of a waste of ammo too.

Anyway, what you want to know is where all those secrets are so you can get a perfect score...

Secret 1: Get to the bit where you come to a fork. To open the barrier on the fork to your right you need to press the button at the end of the passage, return to the left-hand fork and... wait a minute. Go back under the catwalk. There's a secret door to your right where there's also red armour.

Medical supplies and extra weapons are going to become even more important as you progress through the later levels.

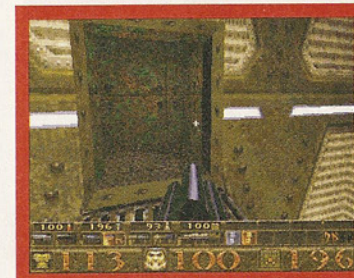
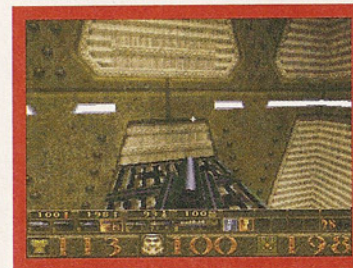


Under the slime you'll go through a doorway into a big room with a slippgate. Get all the bits in the room before you go through and you'll be high up on a ledge with some green armour in front of you down a passage to the right. Kill the grunt in the passage and drop down to the big hall with the megahealth you



Be careful about dropping off raised platforms - it can really hurt.

Secret 2: When you get to the large room with the catwalk to the platform in the middle that has a quad damage on it, go around the central pillar and dive off the other side. Make sure you've got enough health to do this bit because it hurts, so save or make sure you're at 100% health before you start.



These out of the way places are good places to look for secret areas.

may have seen through the window at the start of the level. Now you should go through the slippgate opposite the megahealth.

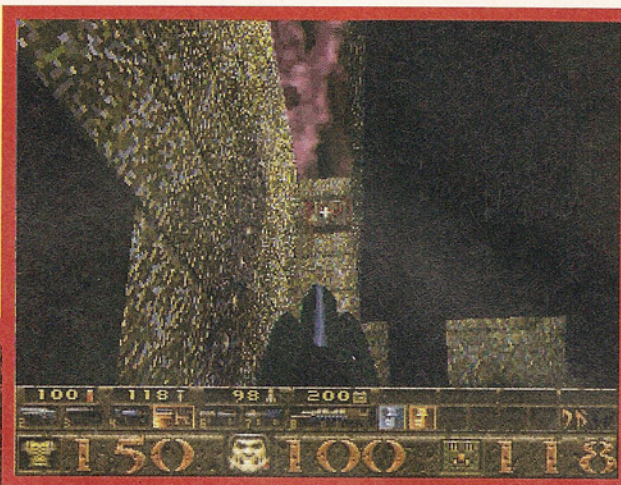
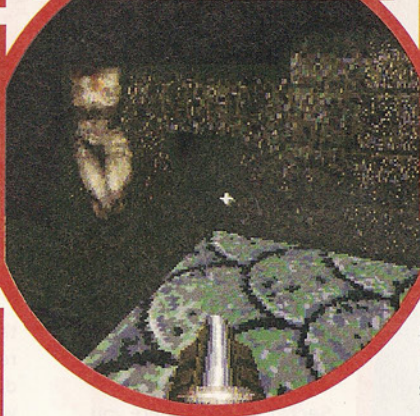
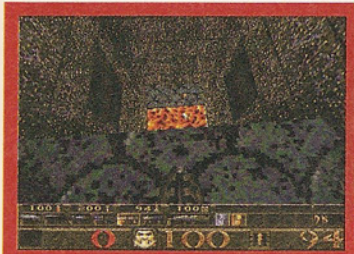
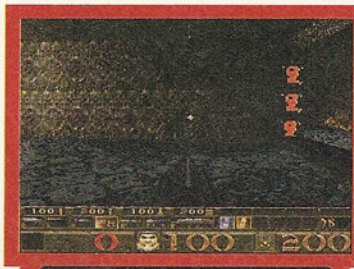
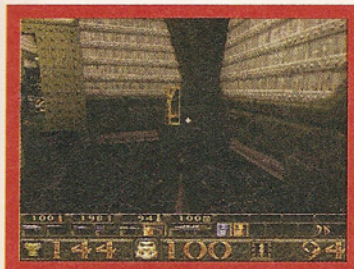
This puts you back in the passage where you got the green armour and killed the baddie, and if you return to where you first came from you'll see another slippgate. Going through it returns you to the main map.



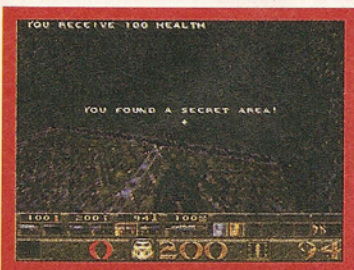
Secret areas galore, and we explain how to get to them.



There's a shady Quake symbol there...

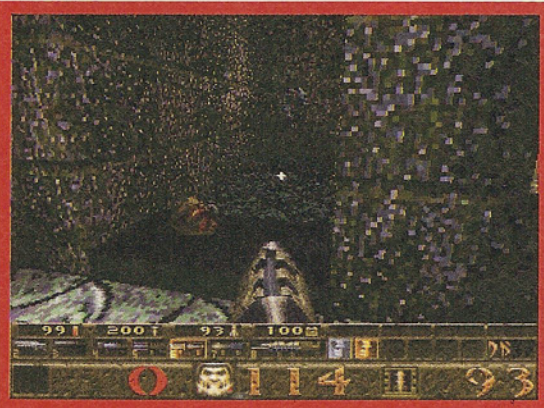


Looks like it's going to rain, so you'd better hurry up and shoot that Quake symbol.



Be careful to avoid the lava and you'll find a secret area.

Secret 3: Head back to the room where you found the start of Secret 2. Go to the stairs on the left of the platform and look to the side and down. You should notice a ledge you can drop to, instead of into the slime. Do so and get the bits you'll find, then step on the elevator pad and go to the top of the room with more catwalks. You can get the health, etc,



It's damp and gloomy - I think I just trod on a slug.

if you need it, then drop back onto the platform.

Secret 4: Just before the elevator pad that takes you up to the boxes on your right and the gold keycard on your left, step back a bit and look to your left. You'll see a ledge in the shadows that you can leap onto.

You can get a quad damage here, and then you can either try to leap back to the walkway or just drop off and get the elevator back to the walkway. In any case, the next secret's not far away...

Secret 5: Go into the block of boxes and get to the top of it. If you turn left you should be facing a wall with some odd texturing. It should be fairly obvious, so if you can't see it you're probably facing the wrong wall. That'll get you a megahealth which will come in very handy over the next couple of corridors.

2. The Vaults of Zin

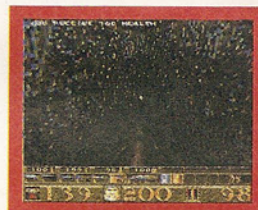
Secret 1: When you start this level you don't have the wherewithal to dispose of the horrible zombies, but never fear. Run past the first lot, turn left and

look right. You'll see a grenade launcher, the answer to your violent prayers. Grab it and look down the shaft you've just leapt.

You'll see fire at the bottom and also a zombie or two. Let 'em have it in short order and then simply drop down the shaft. As long as you're pressing forward while you're falling you should end up on the floor rather than in the lava. Get the megahealth and ride the lift up to where you were before.

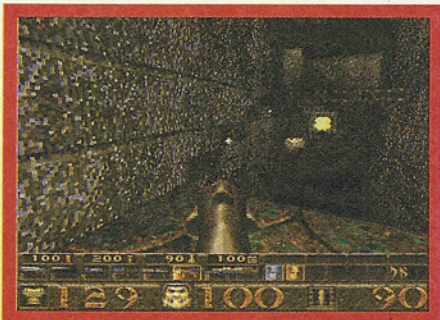
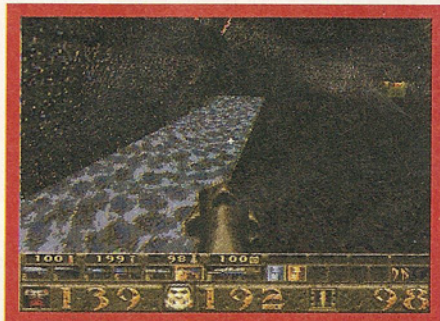
Extra secret: As you come down the stairs in the room with the pillar surrounded by lava, look to your right. You'll see a bit of wall that's lit up. Shoot it to reveal a quad damage and a zombie. I wouldn't bother with the Quad yet... By the way, this secret isn't in the secrets total at the end of the level - it's an extra one.

Secret 2: You'll eventually get to a bit with an ogre above you dropping grenades on your head, with a fiend in a pit below with a picture of a crucifixion on the wall. If you shoot to the right of the picture you'll hit a secret door that leads to a ring of shadows and a slippage.

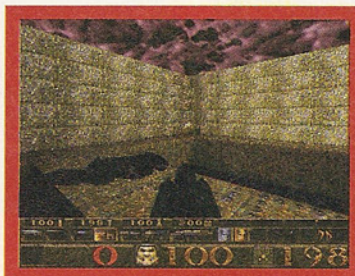


Seek out the secret areas for extra health and armour.

Continued overleaf →

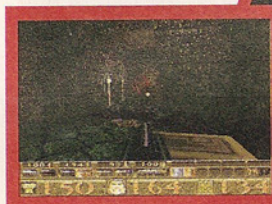


It's a bit dark but it looks like there should be some steps up that wall...





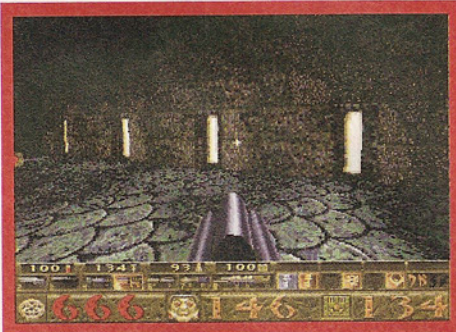
More secret areas than you can poke a spoon at. Unless you're skilled at spoonmanship.



A secret area (right) with a huge amount of supplies for you to stock up with.



← **Secret 3:** This one's pretty easy. After you've finished off the fiends you'll be in their room. Face the Quake tile, turn around and you'll see a discoloured area of wall. This takes you to a sligpate which leads you to the top of this building where the ogre was dropping grenades on your head. There are plenty of goodies here.



The light (below) looks like it might be worth a closer inspection.



3. The Tomb of Terror

Secret 1: At the start of the level you'll go into a room that has a Quake tile that makes some steps rise from the lava. Go up them and then turn around 90° to your right and you should see a Quake tile up on the wall. Shoot it and then jump to the ledge that opens up. Go through the sligpate to get some red armour.

Secret 2: Back where you found Secret 1, go through the passageway killing zombies and deathknights and you'll come to a room with a gutter filled with water. Drop into it and walk forwards to get a megahealth.

4. Satan's Dark Delight

Secret 1: You'll get to a room with two ramps and some thunderbolt cells. If you descend one of the ramps to get in the room you'll see a Quake tile. Ignore it for a moment and go up the other ramp and look to your right. You'll see some blocks sticking out of the wall ever so slightly. You can walk up to them to get some goodies.

Secrets 2&3: When you're on the moving platforms in the tall room there's a bit where the platform goes around a pillar and there's an ogre under you guarding a couple of healths. Drop him, then drop down to



Top: Lava's bad, passageway's good. Above: extra health - that's good too.

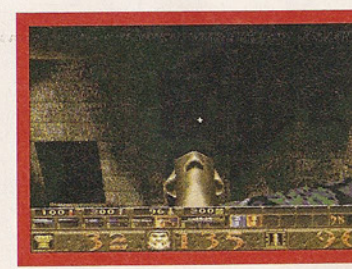


That Quake sign looks like it could be hiding something secret to me.

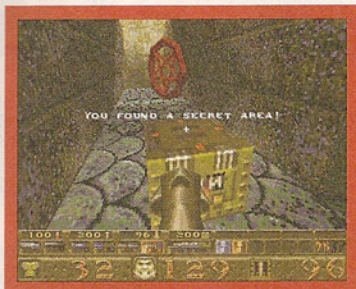
the platform he was on and you'll reveal a secret area. There's a Quad damage inside, but if you really wanna get meaty, shoot all the rectangular lights to open up a further secret area containing a Pentagram of Protection.

Secret 4: On getting the lift up to the room with the fiend and ogre, you'll notice that one of the ceiling lights is actually Secret Area 4, containing another Pentagram of Protection.

Secret 5: Not really a secret, but the way to get to a secret level: The Haunted Halls. Near the end of the level you can go down some stairs to where there's a thunderbolt just waiting for you, but a shambler appears. Take him out and then, instead of proceeding, look back at the stairs and you'll see a thin little ledge extending back under the stairs. Going along one of these you'll see a pit to your side and dropping into it will bring you to the sligpate for the secret level.



Top: It's not a secret area any more, as we explain exactly how to get there.



A Pentagram of Protection always comes in handy.

Secret level: The Haunted Halls

Secret 1: After the room with loads of ogres there's a lift. Get on to make it go but get off again so it goes without you. Drop down into the hole it leaves and you'll be in the first secret area. Go through the sligpate and you'll find...

Secret 2: Secret 2 will be opposite you. It's the grill in the wall covered with blood. Shoot it and you can get a quad damage.

Secret 3: Near the end of the level, where you have a vore facing you across some lava and a Quake tile to your left, look up and you should also see a Quake tile on the ceiling. Shoot it and arm your grenade launcher. A door will open just to the left of the more visible Quake tile. Bang a couple of grenades in there and be ready to chuck a couple more in if you haven't managed to kill the two zombies.

Secret 4: After you've got the bits in Secret 3, killed the vore, pressed the other Quake tile, lowered the barrier at the end of the walkway and gone up in the lift and killed the bad guys at the top, start crossing the walkway. Look to your right and you'll see the



shadow of a doorway. Jump across to it and it'll open just as you reach it and it'll give you some more secrets.

5. Wind Tunnels

Secret 1: After going up the second pipe you'll be bouncing on the air while shooting bad guys. Get off the air column and go up the stairs. There'll probably be several fiends waiting for you, but once you've got rid of them you'll see a hole in the corner of the hallway you're in. Drop through it to get to the nails and Secret Area 1.

Secret 2: Where the green armour is, just before you jump up the tube, drop down into the water, find a tunnel and swim up inside it. That should bring you to a room with nails and health.

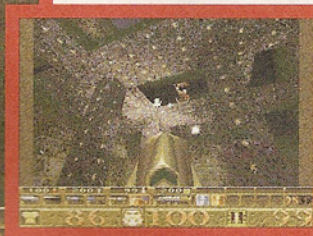
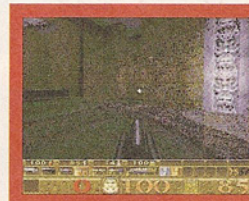
Secret 3: In the big room after you've killed the shambler, you'll see that there's only a narrow ledge all round it. Go to the end of the ledge to your right and then turn around and have a look up. You should see the telltale



Secret area, secret box, secret stuff? Nope, just a load of nails. Drat.



If the ogres paid their electricity bill, maybe Quake wouldn't be so gloomy...



Red sky at night, shepherd's delight. But never mind sheep - find something to kill!



Quake tile that'll open the secret door you need.

A cunningly hidden Quake tile that'll lead to treasure's unseen by human eye. Except for Ben's, of course.

Secret 4: Just before the exit sligpate there's a weird bit of floor. Shoot it to open a hole, but don't just drop in because you'll go straight through the secret room.

6. Chambers of Torment

Secret 1: Where you get the silver key, after you've killed the ogres, look up and you should see a Quake tile in the ceiling. Shoot it and one of the patterned columns will drop down, giving you access to that trellised-off area the ogres were in before. Beyond it there will be a quad damage, some nails and another Quake tile.

Secret 2: After you've killed the ogres on the girders above you (after the silver key door) and got on the lift, you'll see a Quake tile right above you. This opens a bit of wall so you can jump onto the girders where the ogres were and collect some ammo.

In the next issue we'll have the very last episode of Quake for you to go through, finding all the secrets on the way. We'll also try to get footage of them on the CD for you.

SEND US YOUR TIPS!

Helping Hands

If you've got some hints, cheats, tips or general good advice on any Amiga games - especially some of the newer ones like Napalm, Sixth Sense Investigations or whatever, then don't keep them to yourself - send them in so we can pass 'em on to other gamers out there who might be having more problems than you.

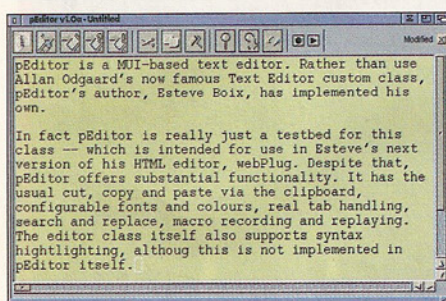
Also, if you've got a query about a game (and no, we don't really mind people asking about The Secret of Monkey Island), then drop us a line and we might be able to answer it in Helping Hands.

HELPING HANDS • Amiga Format
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BA1 2BW

PD Select

Richard Drummond takes his first steps into the world of PD games and utilities in our new-look PD Select...

pEditor v1.0a



Text editors can be user-friendly too.

This is a MUI-based text editor. Rather than employ Allan Odgaard's now famous Text Editor custom class (as used by YAM, for instance), pEditor's author has implemented his own. In fact, pEditor is really just a testbed for this class which is intended for use in the next version of his HTML editor, webPlug. Unfortunately, Esteve has no plans to turn his class into a standalone MCC. He definitely needs to be persuaded.

However, for all its preview status, pEditor offers substantial functionality. It has the usual cut, copy and paste of selected text via the system clipboard, dragging of selected text, configurable fonts and colours, real tab handling, automatic indenting, search and replace, plus macro recording and replaying. The editor class itself also supports syntax highlighting, although this isn't implemented in pEditor itself.

pEditor may only be a demo but it's a fast and friendly editor, ideal for knocking up quick pieces of text.

BY: Esteve Boix
WARE: Freeware
FROM AMINET: comm/www/pEditor10a.lha
SIZE: 49K
REQUIRES: MUI

Scalos v1.2

When Workbench 3.5 finally does get released, I hope that one thing Amiga Inc. have managed to update is the desktop. I know that they plan NewIcon support, but much more is needed. However, if you don't want to wait for OS3.5 to arrive, one way to overhaul your Workbench right now is to install a desktop replacement. Alien Design's Scalos is just such an animal.

Scalos adds power and flexibility to your desktop. In fact, if you do try it and then go back to using a standard Workbench, you'll soon end up cursing in frustration. Scalos is

Scalos has, in no particular order, progress bars, configurable menus, built-in NewIcon support, custom BOB routines for icon-dragging, context-sensitive pop-up menus, more intelligent pen sharing, plug-in modules for easy expandability... the list goes on.

Revision 1.2 of Scalos corrects a few bugs from previous releases. Perhaps the single most important fix is that the location for a project icon's default tool is now searched for in the system's command path. The glaring omission of this feature previously meant that, for example, Scalos wouldn't function

correctly with the AFCDView system provided on Amiga Format coverdiscs.

There are a few minor flaws with the Scalos distribution. The documentation is a bit thin for a start. Most of the Scalos GUI elements lack adequate keyboards short-cuts and the Prefs programs could really do with being re-designed, perhaps integrating some elements from the standard WB prefs. For instance, at the moment you need two programs to control the Workbench font and colour. There are also still a few bugs in Scalos's plug-in default icon system.

Nevertheless, this is an excellent piece of software. It doesn't quite offer the power of DOpus Magellan, but it's cheaper and a lot easier to configure. With a Shareware fee of only £18, it really is a bargain. Go get a copy now and improve your Workbench.

BY: AlienDesign
WARE: Shareware
FROM AMINET: util/wb/scalos.lha
SIZE: 533K



Give your desktop a new lease of life with Scalos.

streets ahead of Workbench and yet it retains almost 100% compatibility.

One big advantage afforded by Scalos is multi-threading, where each WB window is controlled by a separate task. This means you may perform operations simultaneously; for example, you can copy files between drawers of your hard drive and still browse the contents of a CD before the copy is finished. There are loads of other life-saving features, though.

Outfall

Tetris is probably the most cloned game ever. However, none of the copies has ever captured my interest as much as the original Commodore 64 version. *Outfall*, however, is different.

The twist that *Outfall* provides on the *Tetris* theme is that it's played against (possibly a computer-controlled) opponent, and instead of making complete lines of blocks you must group coloured blocks or "beans" together. When four or more similarly coloured beans come together they'll be eliminated and grey beans will be dropped onto your opponent's pile. If two or more groups are made at the same time, multiple grey beans will be sent. The grey beans can only be removed when they're adjacent to any coloured groups of beans formed. It plays a lot better than it sounds!

Outfall is slickly presented and is very addictive. The head-to-head aspect of the gameplay successfully spruces up an old and tired gaming concept.



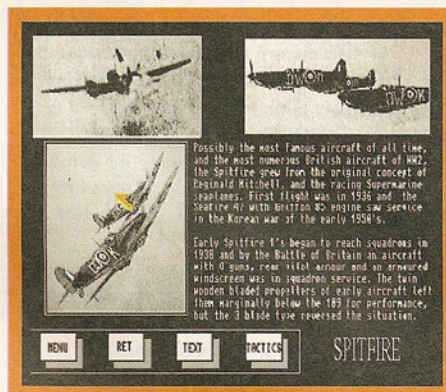
Snatching defeat from the jaws of victory - getting thoroughly trounced at *Outfall*.

BY: David Papworth
WARE: Licence
FROM: F1 Software
DISKS: 1
PRICE: 80p (+£1.00 P&P)

Battle of Britain

Battle of Britain is an attempt to provide multimedia information on one of the most important battles of the Second World War. It works via a menu system and gives detailed text describing the decisions, tactics, aircraft, equipment used and the people involved. A large amount of scanned photographs are also provided.

While the content of this software seems accurate, there are some major flaws. With very few exceptions, I find that software which tries to be encyclopaedic tends to have novelty value only and a physical library is still the best source of information. Combine this with fact that the *Battle of Britain* program itself is archaic - it was



Everything you wanted to know (and didn't) about the Battle of Britain.

written in AMOS, is shipped as a Workbench 1.3 boot disk, is a pain to install to your hard drive and falls over flat on an '060 machine - and you've got the sort software the Amiga could well do without.

Battle of Britain is definitely one for enthusiasts only.

BY: Paul Broadbent
WARE: Freeware
FROM: OnLine PD
DISKS: 2
PRICE £1.50 (plus 75p P&P per order)

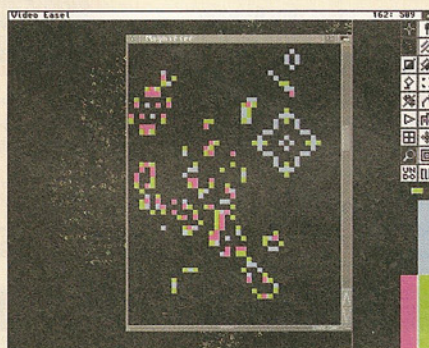
VideoEasel

The title of this software is perhaps a bit misleading. It is, in fact, a tool for experimenting with cellular automata. "What's that?" I hear you ask. Well, now concentrate - here comes the science bit.

Cellular automata (CA) are mathematical constructs. Picture a universe which is discrete throughout space and time. Each element of space is termed a cell and can be in only one of a finite number of states. Each time-slice is called a generation. The evolution of this universe from one generation to the next is governed by determinate rules. A cell's next state depends only on its current state (and perhaps previous states), as well as the states of its neighbours.

A familiar example of a CA is Conway's Life. This universe is flat, planar and divided into a grid. Each cell of the grid is either alive or dead. If a cell is alive and has three neighbouring cells which are alive then in the next generation it will remain alive; if a cell is dead and has exactly three neighbours, in the next generation it will be alive; otherwise the cell will be dead. Despite these simple rules, rich dynamics can be produced in Life. In fact, it's possible to build what are, in effect, logic gates and even a whole computer within this abstract universe.

Now translate this concept to a computer screen. Each cell will be represented by a pixel on the screen, the different states represented by different colours. *VideoEasel* takes this metaphor further. It equips you with paint package-like tools with which to draw pixels on screen, and hence set the starting conditions of the cells. Once you've 'drawn' the



It's life, Jim, but not as we know it.

initial set up, you hit the start button and watch the drama unfold.

The software lets you define any CA you like. You may change the rules and the topology of the universe, etc. You can save out these settings as what *VideoEasel* calls an application, and a multitude of example apps are provided.

VideoEasel is Shareware. Paying the \$20 fee gets you the full version which has full documentation, 450K of examples, extra AREXX scripts and RTG support. While this is undoubtedly a powerful package, the restricted demo version with its minimal documentation isn't going to encourage somebody who isn't already interested in Artificial Life to register.

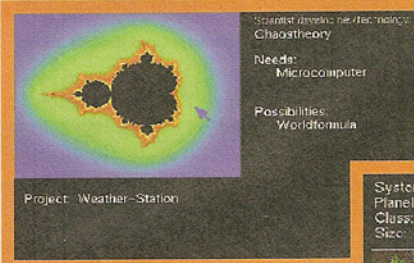
Continued overleaf →

BY: Thomas Richter
WARE: Shareware
FROM AMINET: graphics/misc/VideoEasel.lha
SIZE: 630K

Imperium Terranum 2

When I first saw this game, I thought what a superb concept: it's a fusion of two of my favourite games of all time, *Civilization* and *Elite*. *Imperium Terranum 2* is a strategic simulation on a galactic scale.

The major difference between this game and *Civ* is that the gameplay in *IT2* kicks off in the year 1900, rather than ancient-historical times, and conflict takes place between planets, not tribes. The idea is similar, though: you must organise the resources of your planet, encourage technological development, manage the foreign policy, overcome



Above: another great scientific breakthrough is achieved. Right: the planet Earth, ticking along nicely, thank you.

catastrophes and hopefully, one day, establish a galactic empire. Gradually, as your civilisation progresses with each scientific discovery, there will be new projects for your people to undertake (some engineering, some governmental) – first Continental, then Global Union, a recycling plant, space stations, the Internet, etc.

IT2 also features a great intro sequence, stirring classical music and amusing cut scenes of dog-fighting spaceships. But, alas, the

whole thing is marred by poor production quality. The menu and GUI system isn't particularly intuitive, the text is poorly-translated from its original German (there's no English documentation at all) and the game runs in a non-promotable PAL screenmode.

OnLine supply the game compressed onto four disks using *ABackUp*, the HD backup system. This employs a custom disk format and so the only way to unpack and install it is with *ABackUp* itself. I don't know why they chose this method. A more usual split-up *LhA* or *LZX* archive and an installation script would have been much easier.

IT2 is Shareware. With the unregistered version you can only progress so far. If the developers had put a bit more polish into *Imperium Terranum 2*, it would have been more than worth its \$20 fee.



BY: Virtual Worlds Productions
WARE: Shareware
FROM: OnLine PD
DISKS: 4
PRICE: £3.00 (plus 75p P&P per order)
REQUIRES: ABackUp

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1 Lower Mill Close, Goldthorpe, Rotherham, South Yorkshire, S63 9BY. Tel/Fax: 01709 888127. Email: phil@ware5d.demon.co.uk

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Aminet titles are available from these libraries.

RXSocket 7.1

ARexx is one of the Amiga's secret weapons. It's not merely a useful scripting language; its ability to control and communicate with application software also offers tremendous power. Not only that, anyone can write libraries with which they can extend ARexx's functionality.

RXSocket by Alfonso Ranieri is a shared library to interface ARexx with a TCP/IP stack. Basically, it allows you to use all standard socket functions from an ARexx script. You can now even create inetd (Internet Daemon) services with ARexx. The archive also contains comprehensive documentation and a large set of examples. One script provided allows you to log in to a POP3 mailbox and send commands to list, read and delete mails, etc. Another script retrieves web pages by http.

RXSocket is nothing short of genius – in a single stroke it doubles ARexx's usefulness.

BY: Alfonso Ranieri
WARE: Freeware
FROM AMINET: comm/tcp/rsocket.lha
SIZE: 90K
REQUIRES: A TCP/IP stack

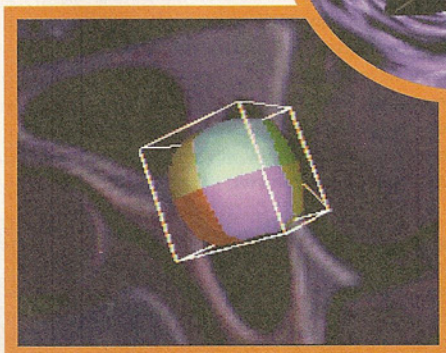
Nuance-Vendetta

The system requirements for even demos are escalating these days. This one, released at the Meka Symposium, Fallingbostal in April, is no exception, needing a minimum of '030/50 and 8Mb RAM with an '060 or PPC recommended (the PPC support is via WarpUp) for full enjoyment.

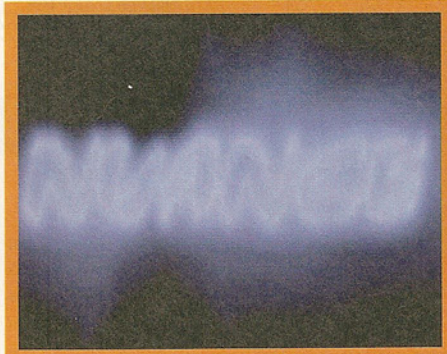
Nuance-Vendetta is the usual demo fare, with hypnotic patterns, swirly plasma effects and thumping tunes. It does have a few nice effects, such as a series of full-screen shots of flowers morphed into one another and the face of woman which is gradually scaled in real-time to give

the effect of a camera zooming straight into the pupil of her eye.

As with all demos though, you'll probably only fully appreciate it if you're part of the 'scene' and speak the 'language'. Hey, Amiga Rulez, man!



It's just swirly stuff on your screen, really.



BY: Sniper, Odin, Evrimsson and Andy
WARE: Freeware
FROM AMINET: comm/www/NCE-VEND.lha
SIZE: 1.8Mb

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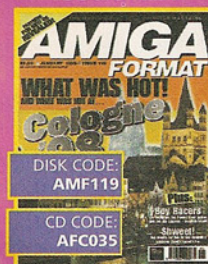
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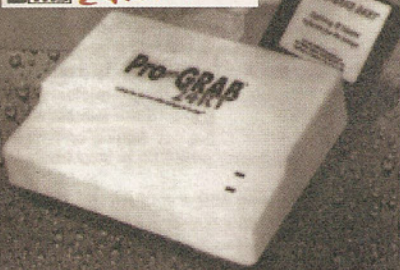
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Since Amiga development is as expensive as it ever was, it's not easy to be able to afford the glossy printed manuals we once took for granted, and development tools aren't as easy to come by as they once were, especially when so few people actually buy the software as are supposed to. At least there'll be updates...

Ben Vost

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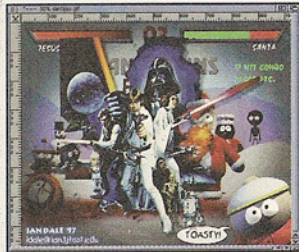
...is very simple. **Amiga Format** is written by nearly all of the most experienced Amiga users in the world and what we say goes. OK?

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| 90+% | The crème de la crème. Only the very best, most versatile and effective products are awarded an AF Gold – the most highly prized rating there is. |
| 80-89% | These products are very good, but there are minor flaws or areas that could be improved upon. |
| 70-79% | Not a bad product but quite possibly one that needs a serious update. |
| 60-69% | Average products with somewhat limited features and appeal. Products in this category tend to be flawed. |
| 50-59% | Below average products which are unlikely to impress your mates or your wallet. Avoid. |
| 40-49% | Overwhelmingly poor quality products with major flaws. |
| Under 40% | The absolute pits. |

44 ART EFFECT 3

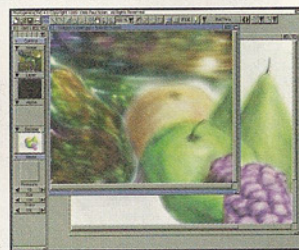
Have Haage & Partner got this latest version of their paint package right? **Ben Vost** finds out.



Compositing made easy the Art Effect way.

48 PHOTOGENICS 4.0

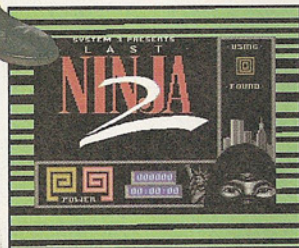
Nick Veitch tries his hand at a little freehand artwork thanks to *Photogenics*.



Time to go up those apples and pears, Maureen m'love.

54 FLASH ROM2

Simon Goodwin presents more MSX action.

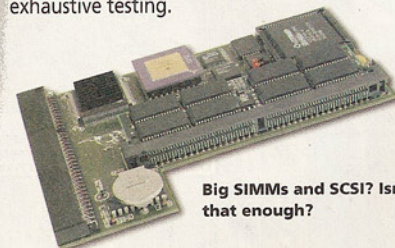


Hmm, good name for a mag, that...

Last Ninja 2, with authentic loading stripes.

56 TYPHOON MK2

Is it any good? **Simon Goodwin** puts it through exhaustive testing.



Big SIMMs and SCSI? Isn't that enough?

60 WORKBENCH

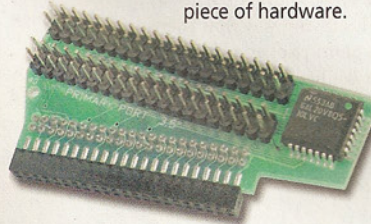
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Keyboards are much easier to deal with than love lives.

47 IDE 4-WAY ADAPTOR

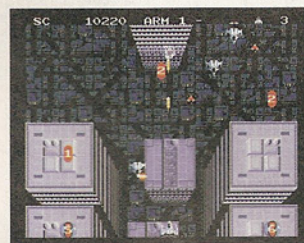
Simon Goodwin looks fondly at this natty little piece of hardware.



It may be small, but **Simon** thinks it's perfectly formed.

52 MSX

Have you a yen for that old-style computing?



Simon Goodwin shows you the way...

Ahhh, remember Aleste?

55 ZIP 250

It's brand new, it's dead clever, it's **Ben Vost's** brand new Zip 250.



Sleeker-looking than the first, it's also able to hold 2.5 times as much data.

59 READER REVIEW

Power's 2x CD-ROM won an **AF Gold** award when we reviewed it.

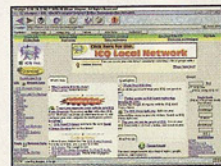
Danny Shepherd sees if it's aged well.



The case still looks very sleek and slimline.

64 AMIGA.NET

Dave Cusick digs deep into web caches and proxies.



See that page? It's cached on someone else's machine, it is.

Art Effect 3

Art Effect gets an upgrade and **Ben Vost** whoops with joy.

For those of you living in the dark, *Art Effect 3* is Haage & Partner's best attempt so far at creating a version of *Photoshop* for the Amiga. It emulates a lot of the way that the world's best-selling paint package does things, including asynchronous redraws, virtual memory, layers and so on, although it hasn't had the amount of development time that Adobe's monster application has had, nor the amount of developers devoted to it. As such, and bearing in mind that not only is it a damned sight cheaper but it's on your Amiga, it would be churlish of me not to give it a Format Gold award. But, and it's a big but (as the bishop said to the actress), it's definitely not perfect yet and it still needs a lot more development.

That said, this is probably one of the nicest all-purpose art packages I've used for the Amiga, and while *ImageFX*, *ADPro*, *PPaint*, *TVPaint* et al have features that they do better or faster than *Art Effect*, if you were to only have one art package I wouldn't hesitate to say that you should choose *Art Effect*. Well, and *PPaint* – it's hardly expensive and it's far more useful for pixel-level editing than any of the 24-bit packages are, for obvious reasons.

So what does the new version offer over previous ones? Is it worth getting an upgrade if you already have v2.6? The answer is yes. Not only has the layering function been extended and improved

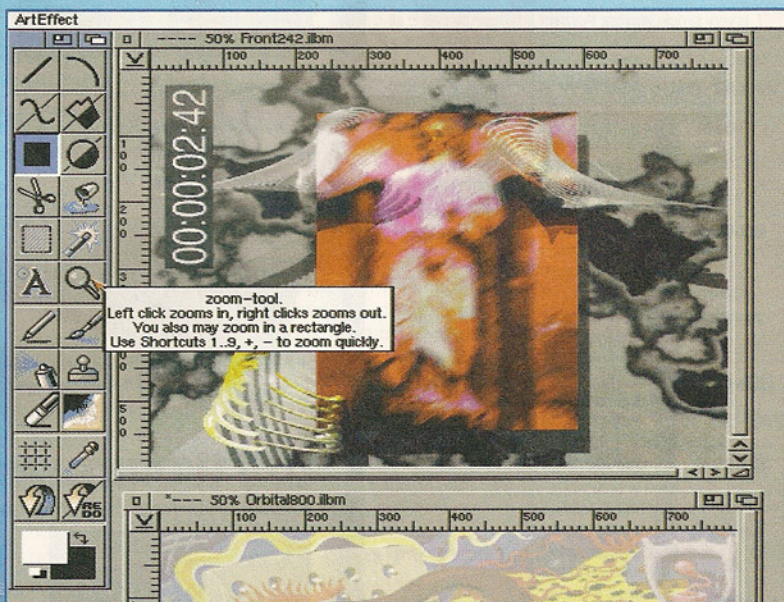
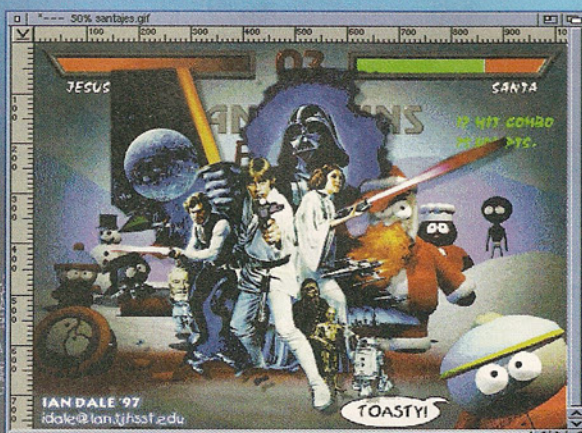


Art Effect now has much lower memory requirements for multiple images than before.

to the point where it's not only useable but almost indispensable, there have been numerous other improvements too, not least of which is the new gradient mixer, more on which later. *Art Effect* can now edit palette-mapped

images (that's pictures with 256 colours or fewer to me and you), although it seems somewhat flaky at recognising exactly what format an image is in, loading all of them as 24-bit and forcing a lengthy conversion down to 256

“One big addition to *Art Effect* is a long-awaited **ARexx** interface for some of the more popular functions...”



Bubble help exists for all the tools in the program. You have to make sure the window you want help in is selected, though.

OTHER PLUG-INS:

All plug-ins cost £24.95.

Power Effects 1: New effects.

Power Effects 2: More new effects.

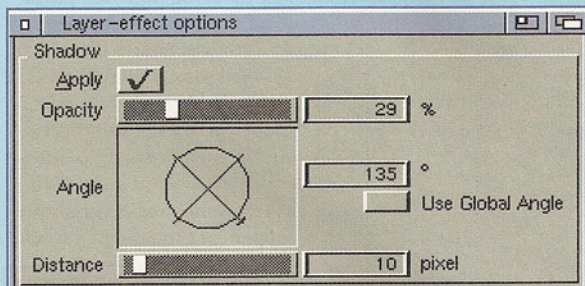
Colour Separator: CMYK separation of images for print.

PowerUP PPC Effects: New effects that use the PowerPC for their processing.

colours once loaded. The online docs give you a good idea of what's changed, but the manual shipped with the package is still dated from 1996, back to version one, which is something of a pity since so much has changed it's hardly worth reading it at all any more.

In addition to the changes within the program there are now two new additions in the shape of the Kodak DC20 plug-in, which lets you download images from said camera, and the gradient mixer. This powerful tool, much like the one in *DPaint* but 24-bit, allows you to make up gradients for

You can apply shadows to layers automatically.

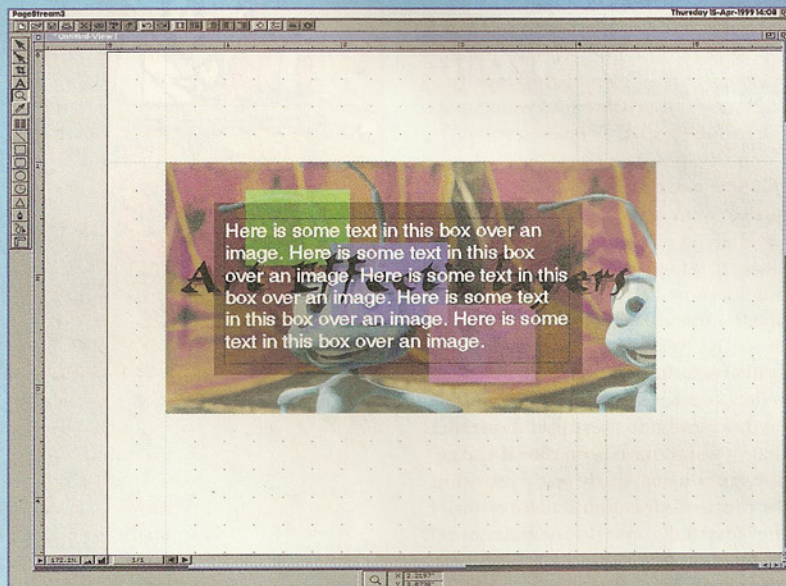


filling shapes and, most importantly, saving them. This means that once you've found the gradient setup for a "chromed" surface, there's no reason why you shouldn't save it for future use.

You've also got a new filter in the shape of Polar co-ordinates. While this can be used for funky effects, its best use is for 3D modellers who'd like lighted windows in the underside of their flying saucers. By painting rectangles onto a normal image and

then applying polar co-ordinates, you get a much better effect which can be flat-mapped onto your object's underside a lot better than either trying to morph your object to the correct shape or by trying to draw circular windows, if you see what I mean.

Continued overleaf →



LAYER CAKE

One of *Art Effect*'s main features is its ability to produce layered images. These images are ILBM files so any picture viewer can see them normally, but load them back into *Art Effect* and you get your layers back. This is much better than the *Photoshop* or *ImageFX* way of doing things where a special file format is required.

Layers can have their own transparency set so you can overlay shadows on top of images that are already there. A good example of this would be a large image with a 50% black box over the top of it which could be taken into *PageStream* as an IFF ILBM file. The advantage is that the black box is still mutable, without affecting the picture underneath, so if it's a bit dark or light you can simply load it back up in *Art Effect* and change the layer's opacity, or even change the shape of the box and so on. You can even have hidden layers, although these do bump up the image size, which could contain

copyright information or simply details about the image. The test image shown is 1.5Mb big with layers and only 578K in size when flattened.

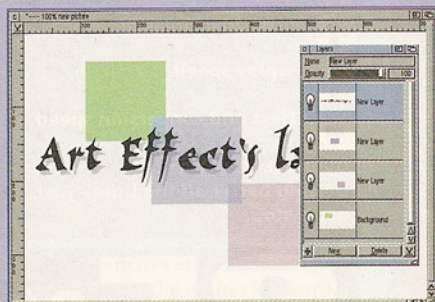
Art Effect allows you to reorder the layers as you see fit and to change the opacity levels. You can also ask for a drop shadow for a layer in the "Adjust Effects" box and this will add a drop shadow to each layer you choose it for. If you're happy with the way several layers fit together, you can merge them by simply dragging one layer onto another in the Layers window and they'll become one layer – the opacity of the original layer becomes set and a new layer opacity of 100% is given.

You can move layers around the picture area. This is especially handy if the layers aren't completely filled so you can reposition picture elements to suit you. However, all isn't perfect in layer paradise. Moving layers around doesn't work properly in the sense that if you're trying

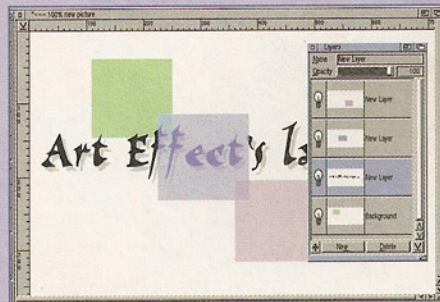
to move a lower layer around, you really need to bring it to the top of the pile before the changes seem to take place, then you have to move it back down the stack.

It's also very hard to have two separate images brought together as layers (image one as layer one and image two as layer two), or to apply filters to layers that are inherently transparent. You'll find you have to fill the layer before applying an effect and, although there's the new eraser function, there's no easy way of removing colour once it's on a layer – you have to make a stencil, which can be time-consuming.

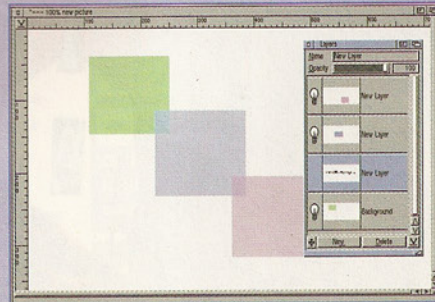
The only other thing that's sadly missing is the ability to use a layer as an effect, rather than simply adding colour to an image. I guess that doing this would make it awkward to stick to the IFF standard, but I hope Haage & Partner can work out some way of doing it for future revisions of this package.



Start with four layers, three with a box of colour and one with some text. Use opacity and shadows.



You want the blue box in front of the writing? Just drag the layer higher then.



Now you see it, now you don't. You can also easily hide layers and save your image with them.

◀ One problem that *Art Effect* still has is font handling. Rather than giving you the ability to really play with fonts, as befits an art package, you have to use whatever bitmaps and CG fonts you have installed and make do with only one line of text.

To make use of *Photoshop's* example, not only can you have multiple lines of text previewed in the font window, but you can say how they'll be rendered – vertically, horizontally, centred, left justified and so on. You've also got control over things like leading and spacing, something that *Candy Factory Pro* offers but *Art Effect* doesn't.

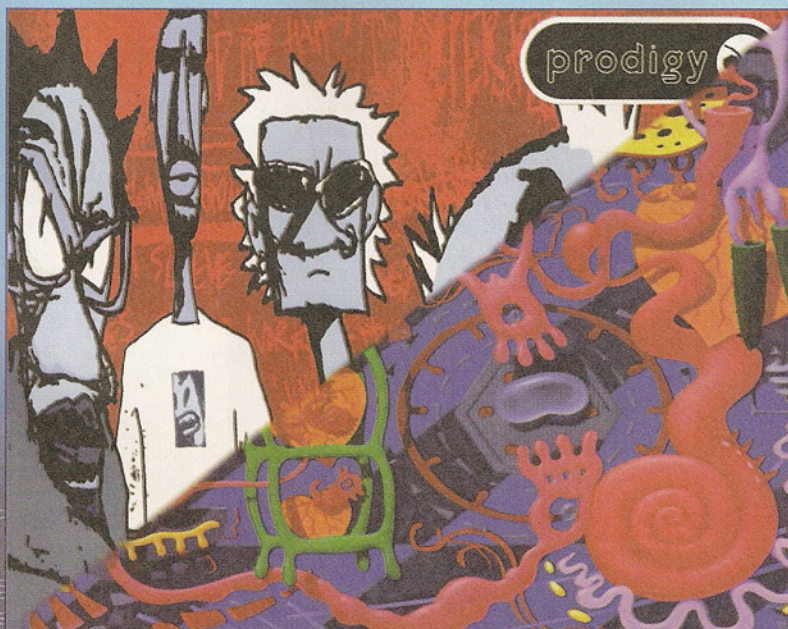
Apparently it does work with the third party *TrueType* and *PostScript* type 1 engines out there that fool your Amiga into thinking that it's dealing with Compugraphic typefaces, but these solutions are only designed for screen work and aren't really suitable for print.

Talking of which, *Art Effect* still allows you to work with a CMYK palette, but doesn't allow you to convert your images into CMYK for it to work properly. As it's used so far, CMYK (which stands for Cyan, Magenta, Yellow, black) is only another palette method, and not a very useful one at that. It would have been nice if Haage & Partner had actually made provision for proper four-colour images when they inserted greyscale and palette-mapped modes. However, there's apparently an additional plug-in available for this purpose. See the boxout on these pages for details.

One big addition to *Art Effect* for this revision is a long-awaited ARexx interface for some of the more popular functions provided by the software. Unfortunately, the command range isn't particularly extensive at only 41 commands, although they do seem quite powerful. Even worse, the only documentation for them is in German, making it hard, though not impossible, for monoglots to understand.

Compositing still seems to be a weak point in *Art Effect's* armour. Although you can chop out a brush and paste it down, or use the admittedly very useful pantograph, there's no direct mating of one

Using layers means it's easy to composite two images together like this.



THINGS TO IMPROVE

- Magnify should also be available at 75% and 66%, instead of just 100%, 50%, 33%, etc.
- Layer opacity shouldn't change when re-arranging layers.
- Font handling should be vastly improved (still).
- Better handling of palette-mapped images.
- Better stability.
- Better anti-aliasing of layers and images.
- More pointers to show which mode you're in.
- A user-adjustable time delay for the bubble help.

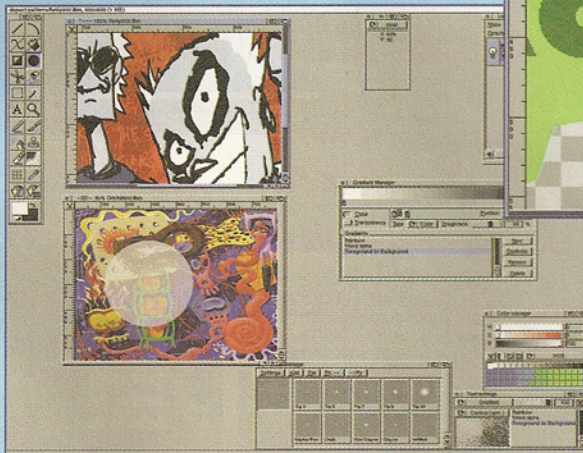
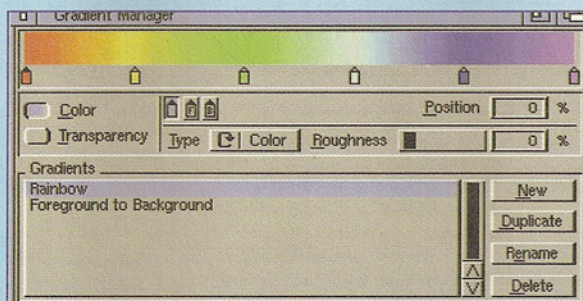
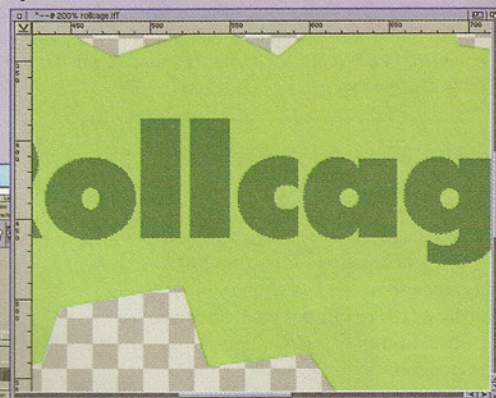


image on another, which is an essential tool to have in an image processing program.

Overall, *Art Effect* is a fine piece of software. It still isn't as rock solid as it might be, especially when compared to some of the paint package competition,



The handy new gradient editor can be a bit flaky.

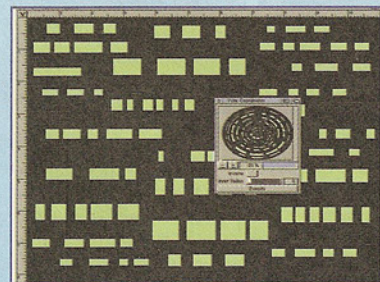


Because fonts are bitmapped, they aren't readily anti-aliased.

but it's certainly more stable and better-featured than previous versions, and at a much more reasonable price.

The idea of having separate plug-ins for sale on their own is a bit steep, but even so, if they're things that not many people will want to have then I guess it's fair enough.

As I said at the start of this piece, *Art Effect* is oh-so nearly worthy of an Amiga Format Gold award as it's getting so good. Perhaps the next version will see that happen. AF



How to make a ring of windows for your spaceship, thanks to polar co-ordinates.

DEVELOPER: Haage & Partner
SUPPLIER: Blittersoft (01908) 261466
PRICE: £79.95
REQUIREMENTS: Hard drive, AGA or preferably a graphics card, lots of memory, a fast processor

Pros and Cons

- ⊕ Superb layers functionality.
- ⊕ Better than the last version.
- ⊕ Display speed.
- ⊖ Effect and conversion speed.

OVERALL VERDICT:
 Getting better all the time – just don't stop.

85%

4x EIDE '99



Atapi days are here again, as **Simon Goodwin** tests the 4x EIDE '99 package from **Elbox** via **Power Computing**.

There's no shortage of Amiga IDE expanders, but Elbox have devised one so elegant it makes all its rivals look like hasty bodes. The 4x EIDE adaptor slots vertically into the 44-way IDE connector on the Amiga 1200 or 600 motherboard. A duplicate connector sticks out at right angles, nicely positioned for a 2.5" drive. Two 40-way connectors project from the other side, ready for standard cables to 3.5" drives or CD-ROMs with separate power.

You don't need to remove the shielding, but the adaptor might get in the way if you've shoehorned a big drive into the bay intended for a little one, and the Amiga case has no convenient outlet for external cables.

The IDE specification limits these to 18" in length, barely enough to reach drives in an adjacent tower. IDE was designed for use inside the computer case and is much fussier than SCSI about cable length.

Setup software allows speed tweaks and automatic spin-down of unused drives after preset delays.

The floppy disk includes a standard installer for the patch to support large EIDE drives and four A4 pages of clear documentation. Setup software allows speed tweaks and automatic spin-down of unused drives after preset delays. Elbox also supply a speed tester and formatter for removable drives like Zips or LS120s.

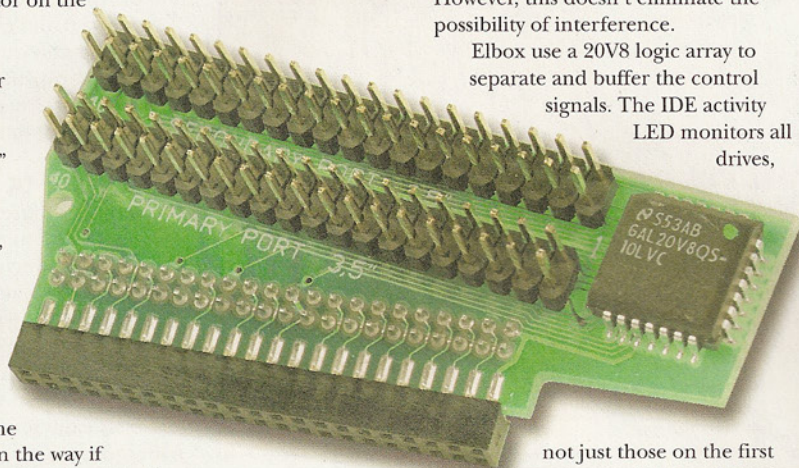
IDE DOGMA

Each IDE connector allows two drives, master and slave, distinguished by cable twists or jumper settings. Stock Amigas support two drives and can boot from either. Typically the master is a hard drive and the slave is a CD-ROM.

In practice, hassle-prone jumper settings and interactions prevent some

combinations sharing a cable. IDE ports are just cut-down ISA slots so it's easy enough to provide two, with their own connectors. The simplest circuit, on Aminet, does this with just two diodes. However, this doesn't eliminate the possibility of interference.

Elbox use a 20V8 logic array to separate and buffer the control signals. The IDE activity LED monitors all drives,



The tiny adaptor slots vertically onto the Amiga motherboard.

not just those on the first port, as on the most-hyped 'buffered' interface, and logic prevents interference from antisocial drives like HP210s.

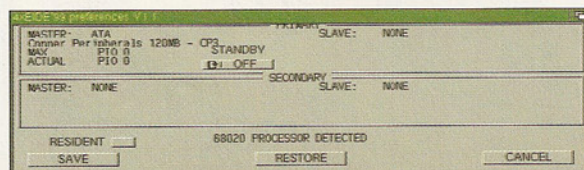
The 16 data lines aren't buffered as that's unnecessary on this mode 0 port. The A4000 boasts buffers intended for faster PIO modes 1 and 2, though Commodore never finished that job. Flyer and Express accelerators incorporate the buffers and termination necessary for modes 3 and 4.

DIVIDE AND CONQUER

Modern EIDE drives can be very big. The Amiga uses 32-bit signed numbers to 'seek' file positions, giving the standard Fast File System a maximum range of +/- 2Gb. This is the upper limit on FFS partition sizes. If a drive uses more than 4Gb, the unsigned 32-bit limit, data intended for the end wraps back to the start, just as car mileometers wrap round when they run out of digits.

Amiga International's *TrackDisk64* patch uses 64-bit addressing to remove this limit. This works but requires new partitioning, format and recovery software. Vital programs like *DiskSav*

EIDE '99 Preferences suffer if you use a custom font.



EIDE PERIPHERAL INPUT/OUTPUT (PIO) MODE LIMITS

| PIO | Word Time | Top Rate |
|-----|-----------|-----------|
| 0 | 600 nS | 3.33 Mb/S |
| 1 | 390 nS | 5.25 Mb/S |
| 2 | 240 nS | 8.33 Mb/S |
| 3 | 180 nS | 11.1 Mb/S |
| 4 | 120 nS | 16.7 Mb/S |

ignore the patch. Elbox avoid such catastrophes with a simpler patch that makes each 4Gb area appear to be a separate drive so you can use up to 128Gb (four drives in 64 partitions) with total software compatibility.

In the long run, *TrackDisk64* is the way to go, but right now Elbox have the best solution.

CONCLUSION

This adaptor is well-made, well-documented and easily installed. It simplifies adding a 40-way ATAPI CD ROM cable and making backups to another big IDE drive.

You still need *IDEFix* or suchlike for CD-ROM access as there's no ATAPI device or CD file system, but compatible code is freely available on Aminet. Elbox have also started developing their own fast, hand-coded one for a future bundle.

SUPPLIER: Power Computing 01234 851500
PRICE: £24.95
REQUIREMENTS: A600 or A1200 with Kickstart 3, IDE drives

Pros and Cons

- + An exceptionally neat fit inside the A1200.
- + Compatibly supports up to four 32Gb drives.
- + Buffered control and activity LED signals.
- No faster than Commodore's IDE interface.

OVERALL VERDICT:
 Highly recommended if you can't stretch to SCSI.

92%

Photogenics 4.0

Nick Veitch desperately tries to avoid any paint-type puns. Does he succeed? Draw your own conclusions. Doh!

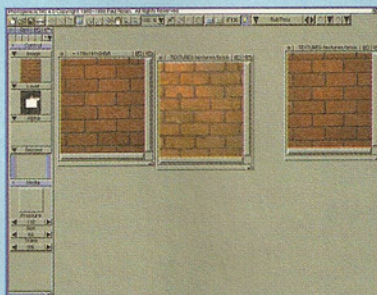
The Amiga has always been home to great graphics software, and also the birthplace of some very innovative programs. One example of both of these phenomena is *Photogenics*, which is pretty unique in a lot of respects. Originally published by Almathera, it has continued to be developed by the original author of the software, Paul Nolan.

Having many images open at once is fine, but occasionally, as here, *Photogenics* won't let you select any of them as an alpha channel.

“One of the great features of *Photogenics* is that it allows you to paint in different ways, using its different media types.”

Photogenics 4 is his latest release, which, as well as having a host of new features, has been fundamentally redesigned in terms of its GUI and the way the software actually functions.

The fire mode is useful for some effects, but it's probably not one you'd use every day.



LAYERS

One of the new features of this version of *Photogenics* is the addition of multiple layers. *Photogenics* has always had a layer system of sorts, as the “paint” layer has always been flexible until it's fixed. Now, however, you can have multiple paint layers which you can apply different effects to, and you can change their order for real flexibility.

The layer system isn't that easy to use, though. Unlike other layered software such as *Art Effect*, or indeed *Photoshop* on the Mac, the layers are just shown as thumbnails in a strip which pops out when you hold the mouse button down on the main layer thumbnail. It's relatively easy to select the layers, but the fact that they work from left to right instead of from top to bottom may take a little bit of getting used to.



Using a secondary image means that you can rub through drawings, which is a very effective way of compositing.

Unlike other software, the layers can't have effects applied solely to them because these layers are the effects. If you're used to more conventional software, it may take a bit of figuring out how to achieve the results you want.

That said, this extra flexibility is a welcome addition, and the layers don't rely on buffering the entire image into huge banks of virtual memory, which comes as a great relief.

PAINT MEDIA

One of the great features of *Photogenics* is that it allows you to paint in different ways, using its different “media” types. These include an airbrush, a pencil, watercolours, two types of finger painting and a special effects mode.

These media effects are very easy to control and adjust. You can alter their sensitivity easily via the sliders on the side panel to generate any effect you want. They can be a bit slow when the brushes are large, or if you're using complicated patterns like the sponge. It's just about bearable on an '040, but if you're planning on doing a lot of this sort of work, an upgrade is going to be pretty much essential.

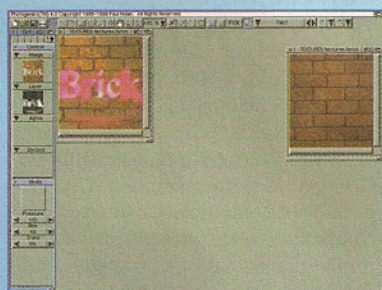
However, these natural media are implemented in *Photogenics* to a much greater extent than in any other Amiga graphics package, so if you want to create computer graphics that look like they were hand-drawn, this is pretty much the only choice.

MODES

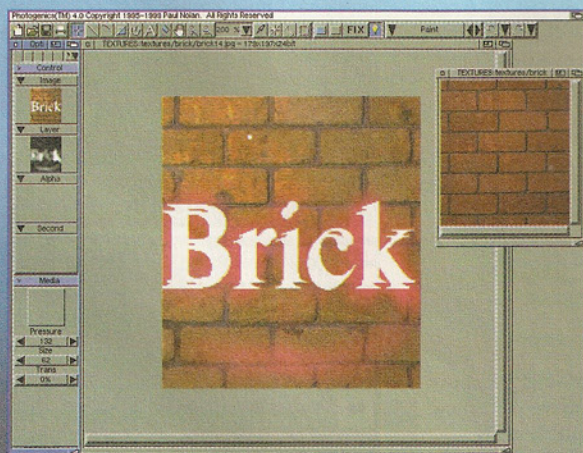
Another unique feature of *Photogenics* is the ability to paint with effects. The Mode bar allows you to select the drawing mode, which in addition to paint includes things like “fire”, various types of blur, rub through, bas relief, a



Oops. There are still one or two bugs to be ironed out. Still, at least this time it didn't make the whole system fall over...



Having many layers means you can construct quite complicated paint effects (not shown) and also rearrange things to suit.



Here the spraycan layer has been put to the back so it appears as a backdrop to the text.

THE MAIN CONTROL SCREEN



1 There are different icons for opening, closing and printing files, as long as your screen is big enough.

2 The drawing tools include a line tool, a curve tool (similar to the one in *DPaint*), a polygon tool and a box tool. For some reason there are no circular drawing tools, which is a bit of an omission.

3 The Text tool will allow you to draw a box on the screen. Then you can choose a font from the side panel and type in some text. You can move the box and resize it to get the text flowing as you want, which is nice. However, it's a bit glitchy.

4 The Hand tool is for positioning the layer. *Photogenics* is quite unique in its ability to "paint on" an effect and then be able to move it around the screen.

5 The colour picker allows you to grab a colour value from the image window. The crop, fill layer and clear layer tools are quite self explanatory.

6 The Fix button makes your drawing permanent, effectively combining the paint layer with the image layer.

7 The lightbulb enables experiment mode. With this active, painting and modes aren't automatically fixed so you could draw in "blur" mode, for example, but then change the drawing mode to "emboss" to see what another effect would look like.

8 The mode bar scrolls down to reveal all the available painting modes, which are now hierarchically grouped into themes.

9 It's possible to have two windows open at once which relate to the same image. This is very handy for doing close-up work.

10 All of the image windows can be scaled between 10% and 800%.

11 The image palette shows you a thumbnail of the current fixed image. You can use this to swap between different images you may have open. There's a pull down menu here for quick access to loading and saving.

12 The layer palette show you the current paint layer. You can now have multiple paint layers and the pull down menu allows you to add or delete them, or rearrange the order which they're in.

13 The alpha channel palette works in pretty much the same way as the image palette, allowing you to swap between images. The menu also allows you to invert it.

14 Secondary images are used for rub through effects. You can choose any open image to be the secondary one by holding the mouse button down on the thumbnail and then selecting from the range of images which will then appear.

15 From here you can select special types of natural media, including pencils, charcoal, watercolours, finger painting, sponge and several types of special effect.

16 These sliders are used to adjust the weight, size and transparency of the current brush settings.

whole range of colour processing effects and so on. Disappointingly, there are no options to add your own convolution-type effects, and there are absolutely no twirl or swirl effects either. This is obviously a bit of an oversight, but as these modes are all created as plug-ins, perhaps one will be added at a later date.

Since you can literally paint these effects on, they can be made to work in ways which simply aren't possible, or at least are extremely time consuming, in other software packages.

EXPERIMENTATION

Another new feature is the experimentation mode, or, in fact, the non-experimentation mode. Basically, with experimentation mode on, *Photogenics* behaves like it used to in the very beginning. You can paint with a brush, move the whole layer around, change the colour and effect and, only when you're happy, finally "Fix" the paint layer into the image.

With experimentation mode disabled, the image is now automatically fixed when you change

brush types or colours, or if you choose a new effect. This is quite useful if you know exactly how to achieve the effect you're after because you don't have to keep pressing the Fix button, and if you've made a mistake you can always use the Undo feature.

Photogenics 4 keeps an undo list which you can see on a pop up menu any time you want. It keeps track of the last adjustments made to the image, and you can obviously click on the undo button to undo the last thing you

Continued overleaf →

← did. The undo buffer doesn't consume a huge amount of memory, but if it does get a bit too large you can always flush it to get back those valuable extra kilobytes. The software also includes a redo function, which works in almost exactly the same way but in reverse if you see what I mean.

STABILITY

Unfortunately, for all its good points, in this release the software is rather unstable. On testing it crashed numerous times while trying to do anything with the access menus or when using fonts, changing drawing modes and it also crashed several dozen times while using the Options panel.

Perhaps it's simply that it doesn't like the particular test machine, but it smacks of poor testing. The release notes confess to some minor bugs but I lost count of the number of times I had to reboot. Occasionally it crashes nicely, but most often it just returns a system failure message.

COMPARISONS

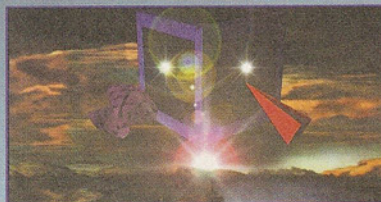
There are few graphics packages on the Amiga with which *Photogenics* can properly be compared. *ImageFX* is more geared towards image processing rather than actual drawing, and while it has better ARexx script support and more customisable effects, it certainly isn't very friendly for artists.

Art Effect is closer with its different media types and more flexible drawing tools, but it's bulky and heavy on memory and processor time. Then again, it does work most of the time.

DOCUMENTATION

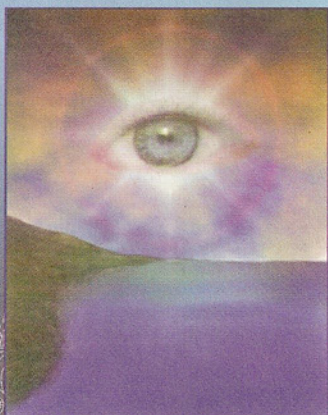
The author originally intended to complete full HTML documentation to accompany the software on the CD, but he hasn't quite managed to finish it yet. This means that the current extent of the documentation is a text file, which simply lists the basic functions of each button and clears up some common queries.

If you're very familiar with earlier versions of *Photogenics*, this might be enough to get you going, in spite of the fact that the layout of the software has

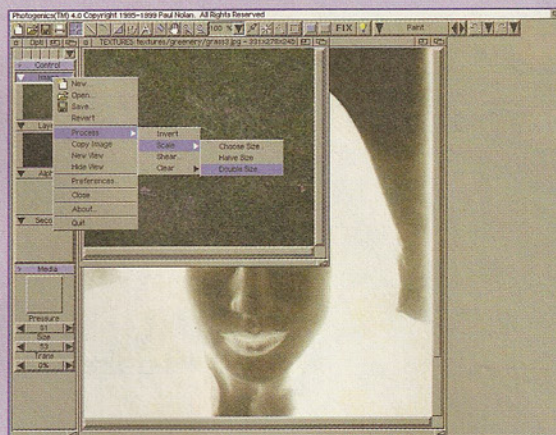


Just two of the impressive images you can create in *Photogenics*.

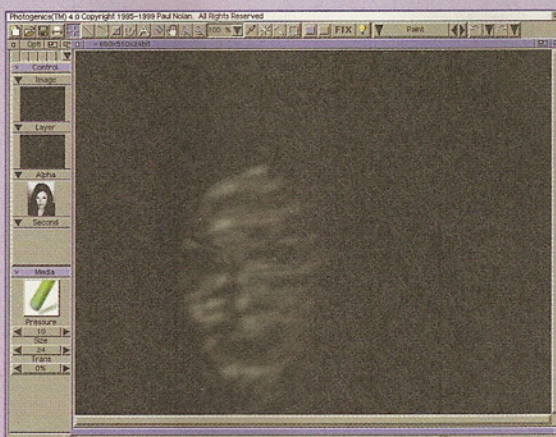
A good example of the rub through special effect.



SPECIAL EFFECTS



Control of the layers and channels is pretty comprehensive, but often not quite as straightforward as you might want.



The natural media, like charcoal used here, are useful for drawing your own images, or for applying some interesting effects to existing images.



The colour chooser palette is pretty comprehensive and offers RGB and HSV models.

radically changed, but as *Photogenics* is quite unlike any other Amiga graphics software, beginners might find it a bit tough going. Even old hands may be a little confused by some of the newer elements, such as the multiple layers.

I'm sure that the HTML documentation will be completed shortly, but at the moment, if you haven't used previous versions of *Photogenics*, it's probably going to take you quite some time to get to grips with this version.

CONCLUSION

Photogenics certainly has great scope to be the best drawing package on the Amiga ever, but perhaps it hasn't quite reached that potential yet. However, the software is fundamentally sound and all of its problems could probably be sorted out rather easily. It just doesn't seem quite finished yet.

If you want to actually draw images, as opposed to just processing them, this software offers you the best features you're likely to find, though you'll need a graphics tablet if you want to get the best out of it. You'll also need a decent graphics card – the software does

support all Amiga screenmodes, but because of the nature of this software the updates on HAM8 and DBLPAL screens, never mind Multiscan ones, are very, very slow.

PUBLISHER: Paul Nolan

<http://www.photogenics.co.uk>

REQUIREMENTS: Not stated in documentation

RECOMMENDED: 16Mb+ RAM, graphics card, graphics tablet

Pros and Cons

- ✚ Excellent natural media support.
- ✚ Unique layer/paint system.
- ✚ Poor documentation.
- ✚ A little unstable.

OVERALL VERDICT:

If you want to draw rather than process, this is the software to use.

80%

STAR WARS UNCOVERED

Are the *Star Wars* films based on science fact or fiction? Find out in the next issue of *Frontiers*, together with an in-depth preview of *Episode One: The Phantom Menace*.

Frontiers

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Errors & Omissions Excepted - 19 April 99

MSX Nostalgia

Simon Goodwin appraises the latest in Amiga MSX emulation.

MSX enthusiasts can finally look Spectrum and C64 enthusiasts in the eye now that a compilation of emulators and software is available on CD, just for them. This includes *fMSX2*, which generates 68020 routines dynamically from the original Z80 code as it runs.

MSX was a collaboration between Microsoft and hardware manufacturers, mainly in Japan, setting a standard for 8-bit micros. It launched in 1983 but production outlasted Commodore, continuing until 1994. I'll discuss the CD and then wax lyrical about Hans Guijt's ingenious emulator.

Epic's *MSX Nostalgia* CD holds 62Mb, perhaps half of which is directly useful; there's 20Mb of unique MSX software and 4Mb of Amiga code. Many of the 300-odd MSX cartridge games appear several times, with slight variations in location or file name. It's a shame more utilities aren't supplied unpacked, ready to use.

“If MSX is just a passing interest, you may be better off with Freeware *fMSX2* and Flash ROM 2 instead...”

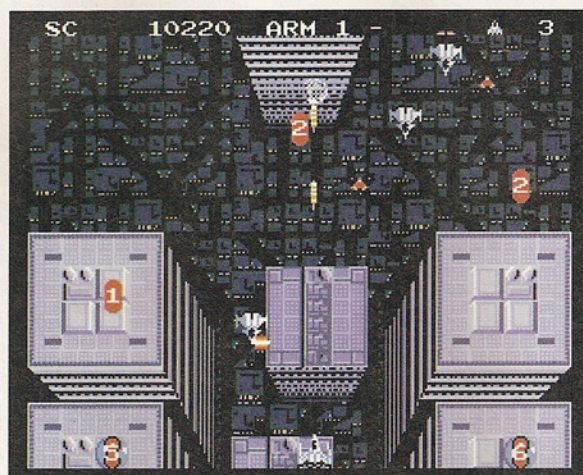
THE SOFTWARE

The two main drawers, GAMES and GAMES2, each hold hundreds of files. These use MS-DOS 8.3 filenames so *LodeRunner1* through 3 became *LODERUNN.ROM* and only the last made it into the GAMES2 drawer. Ironically, *LodeRunner3*, the 'Championship' version, is also present as *CHAMPION.ROM*, clobbering *ChampionProWresting* in the process.

Luckily, the GAMES2-RealNames directory for non-MS-DOS victims uses

MSX

MSX NOSTALGIA



fMSX2 scrolls *Aleste* along nicely.



Higher-resolution *Aleste* on *MSX2*.

full descriptive names, thereby rescuing a dozen files otherwise truncated.

The CD concentrates on cartridge-based games, most of which look and play like Nintendo or Sega console titles. Sadly, given *fMSX2*'s excellent floppy emulation, there are no disk-based applications. There are audio applications, a database and a spreadsheet among the games, but serious MSX programmers must add their own software from floppy.



English not primary my language, sorry.

You get loads of platforms, ladders and map exploration scrollies, and a fair few shoot-em-ups too, often barely distinguishable. PSG sound soon becomes authentically irritating. Konami's SCC is superior but less common. You must install *AHI*, which isn't included, to emulate both at once.

EMULATORS

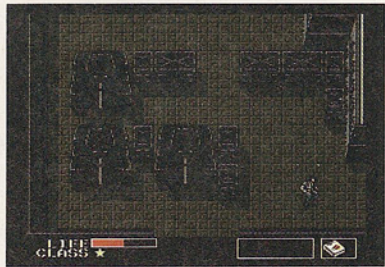
There's 25Mb of material specific to Wintel PCs, along with Mac *FreeMSX* and *fMSX*, and Unix ports which should work on *Linux 68K* or *NetBSD*. Don't expect much speed – the original C-coded *fMSX* was sluggish, even on SPARC workstations. Amiga-specific code runs many times faster.

The CD and *fMSX2* drawers have standard Amiga icons and 8-colour alternatives, which ease Workbench access. The cartridge collections have no icons but are obvious to the emulators' standard requestors.

RETARGETING

fMSX2 offers retargetable graphics and sound, via *CyberGraphX* or *Picasso96*, so it requires Kickstart 3, plus *AHI* for 16-bit audio cards. Programs expecting 256-colour MSX2 modes are 'gracefully degraded' to 64-colour Extra Half Bright mode on ECS Amigas.

Most games run synchronously with the NTSC or PAL display as MSX architecture suits that style of programming. Speed regulation allows authentic timing on accelerated Amigas. *fMSX2* surrenders the processor to other Amiga tasks, rather than furiously, futilely, twiddling its thumbs. Interrupt rates from 24Hz to 100Hz facilitate game speed tweaks, though both the sound and graphics may glitch a little bit at the extremes.



MSX, not CPC, begat the original (non-solid) *Metal Gear*.

NET RESOURCES

<http://www.komkon.org/fms/MSX/Docs>
<http://www.sci.fi/~tonisra/msx.html>
<http://www.dcce.ibilce.unesp.br/~aleck/msxring/>
<http://www2.jcsnet.or.jp/~kojima/msx-e.html>

FTP data archives:

<ftp://funet.fi/pub/msx>
<ftp://komkon.org/pub/MSX>

Usenet News:

<comp.sys.msx>

FMSX2

Hans Guijt's Freeware *FMSX 2* is a dynamic recompiler, the most potent emulation around. It rewrites MSX programs in Amiga machine code while it runs. On an A4000/060 it's almost 20 times faster than the original Unix code on a SPARC 2 workstation.

It's the difference between reading a foreign book by looking up each word in a dictionary as you go along, compared with translating the entire text and then working from the translation. The first approach is enough to get you started fairly promptly, but soon gets bogged down. Programs are often reread as they run, and the 'words' seem simple compared with the effort of looking them up.

This radical development can outrun all the Amiga's interpreting Z80 emulators, which must laboriously look up code for each Z80 instruction. Interpreting emulators have gone about as far as they can on Von Neuman and Harvard architectures and underuse modern pipelined processors. Future compiling emulators will have sophisticated optimisers that merge blocks of code to save time and space.

However, there are pitfalls. A compiler must work hard before its output is any use at all. Programs, unlike books, can change themselves as they go along. A useful compiling emulator must check for this, or else it will carry on running the old code after it's been replaced.

fMSX2 surmounts both obstacles. Like *Qdos ZMI/HT*, it dynamically compiles as it runs. Translation delays are imperceptible, swamped by the time saved when code doesn't need to be re-interpreted. Dynamic recompilation tracks code invalidation, and performance monitoring doesn't need to limit speed.

THE COST

The only cost is extra memory, for dynamically-generated 68020 code, typically more verbose than the Z80 equivalent. *fMSX2* uses 32-bit extensions added for the 68020 and needs more speed and space than chip RAM alone can

provide. It multitasks nicely on a 6Mb Amiga.

By default, *fMSX2* allocates 512K for its recently-translated code cache, and 16K for a 'Hash table' to track it. That's plenty for most game cartridges, but you can boost both as necessary from the 'Z80 settings' window.

For the first time, speedy Amigas can outrun TurboR MSX2+ systems, the ultimate expression of the MSX development, up to eight times faster than the original thanks to Z80-compatible R800 RISC processing. Even stock A1200/020s with fast memory can emulate games at full speed.

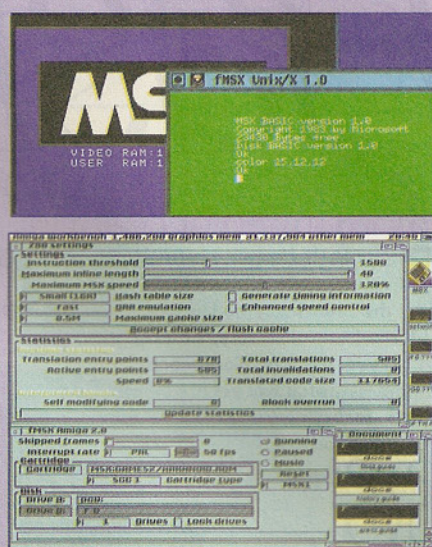
TESTING

fMSX boasts 150K of well-written documents in four AmigaGuides and an AREXX port for remote control and configuration. It doesn't need an installation bar assignment of *fmsx*: to launch applications from Workbench icons. Otherwise use requestors or Select All Files and drag and drop to the Workbench control window. Copy the emulator from CD and create a configuration file to prevent initial 'file not found' errors on cartridge and disk names.

fMSX2 runs virtually all the MSX1 software on the *MSX Nostalgia* CD at once, and is compatible with most of the larger ROMs, 128K and upwards, for MSX2. You may need to cross-reference the cartridge type with the guide, or reload after another has gone awry.

The defaults are apt and nothing actually crashed the Amiga or emulator tasks, as distinct from the emulated MSX. Very few cartridges stubbornly refuse to work, resetting repeatedly or showing corrupt graphics.

fMSX2 handles one or two digital joysticks with an MSX mouse option, Amiga mouse switching and retargeting for MSX joystick 1. A memory window allows RAM pokes and there's a semi-automatic cheat finder, but beware that this gets stuck, sapping Amiga CPU power and stopping emulation if started without a seed.



fMSX2 puts responsive windows on Workbench.

fMSX2 lacks direct cassette input code but can read MSX tape images. It can access original MSX floppies via *CrossDOS* and a suitable drive, simulate 'temporary disks' from Amiga directories, and *RAMSX* allows fast MSX disk images in recoverable Amiga RAM drives. Microsoft MSXDOS operation requires *COMMAND.COM* and *MSXDOS.SYS* on real 360K or 720K MS(X)DOS disks. *fMSX2* also supports Cyrillic and 8192-code Japanese Kanji characters as many MSX releases were in markets that don't use Roman letters. The environment details in the MSX2 battery-backed RAM are stored in an Amiga file.

Besides PSG and SCC, *fMSX2* offers nine-channel FMPAC plug-in sound, currently via *AHI*, but soon through *Concierto OPL3* hardware. Future MSX2+ modes with up to 19,628 colours will require AGA Amigas or graphics cards.

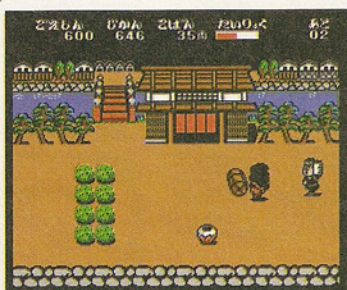
This CD also includes *Amiga fMSX 0.6* and *0.8* (twice) and three versions of erstwhile rival *AmiMSX*, compared in *AF93*. *AmiMSX* updates from 2.3 require AGA. The CD has the registered version 2.51, without the essential keyfile. Versions 2.1 and 2.3 are demos which have a five minute time limit.

AmiMSX runs fast on 68020 and 68030s, but dislikes the copyback cache on later processors. It's quite comprehensive, \$30 Shareware, but less system-friendly than *fMSX* and lacks some MSX2 features. *fMSX2* is superior unless you're stuck with Kickstart 2 or trying to squeeze everything

Oriental Samurai action comes naturally to *fMSX*.



Elementary Double Dutch from *MSX Nostalgia*, Ja?



into 2Mb RAM. The old *fMSX* may still be preferable on quick Amigas.

VERDICT

We deserve an MSX compilation CD to rival the Spectrum ones – MSX software was often superior, at least in graphics and sound – but sadly *MSX Nostalgia* isn't it. This is just a collection of games of dodgy legality, plus free and Shareware emulators; an MSX devotee could have collected far more.

You don't even get the *FAQ* or *AHI*. *MSX Nostalgia* is thrown together and there seems to be a hole in Epic's shovel. If MSX is just a passing interest, you may be better off with Freeware



Ashguine action on *MSX2*.

fMSX2 and *Flash ROM 2* instead, which contain more than half of the games which are included on this CD, plus other emulators.

SUPPLIER: Epic Marketing,
0500 131486

<http://www.epicmarketing.ltd.net>

PRICE: £9.99

REQUIREMENTS: 32-bit Amiga with fast memory and CD drive

Pros and Cons

- + Workbench-friendly, including Amiga *fMSX 2.0*.
- + The biggest MSX game collection yet on CD.
- + Disorganised with many duplicate files.
- + No MSX documentation or disk images.

OVERALL VERDICT:
A missed opportunity but okay for MSX gamers.

58%

Flash ROM 2

Simon Goodwin wades through the latest Flash ROM collection.

Flash ROM 2 comprises 670Mb of emulation archives culled from the Internet, aimed at Unix, Mac and Wintel, as well as Amiga users. Don't expect icons or Workbench-friendliness – what you get are piles of archives, including some old versions and duplication.



Commodore 64 emulation is prominent on Flash ROM 2.

Don't expect Workbench-friendliness – what you get is piles of archives, including old versions and duplication.

The CD contains over 250 C64 games, A64, Frodo and Magic64 emulators, and lots of demos too. The Amiga VIC20 0.65 is featured, with



The Jurassic classic *DinoWar* for Dragons and Tandy's CoCo.

Games like *Aleste* demand an up-to-date MSX emulator.



Revisit *Buck Rogers' Planet of Zoom* with a VIC emulator.

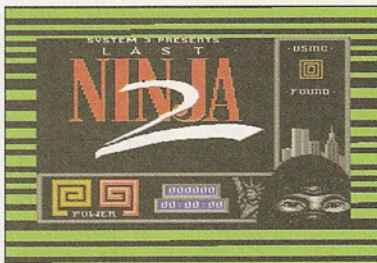
ROMs and some 60 common games. Oric aficionados will appreciate *AmOric 1.4a*, copious history and information culled from the web and about 3Mb of Zipped software, with GIFs to show you what to expect.

250 Atari 8-bit games and disk images accompany good Atari 800 emulators for Amigas from Fenton and Firth. There's one tiny ST emulation hack, one spoof and *ST4Amiga.lha*, which can unaccountably be found in the '8-bit Atari' drawer.

Over 700 ZX-81 titles include small games, utilities and High Res programs. There are 150+ Coleco ROMs but no Amiga emulator, as a decent one only recently arrived. One DREaM archive is corrupt but the later 1.02 is okay. You get hundreds of Dragon games and dozens for Amstrad CPCs, but none for the Spectrum, which is well-served on dedicated CDs. Amiga Apple 2 emulators appear, but there are no example programs for those either.

Oddly there's no *ShapeShifter*, although you do get a current Amiga *Qdos* (unlike *Flash ROM 1*'s Neanderthal version), but sadly no example QL programs. PC *Qdos* emulator *QLAY* is filed under Spectrum Support, surely signifying Shovelware.

The CD includes MGT Sam emulators for Mac, MS-DOS and Unix,



Authentic loading stripes to savour in Commodore 64 emulation.

sadly unavailable to Amigans. '500 Amiga games' are compilation ADF images: mostly Assassins PD, plus a Workbench 2/PARnet system disk.

MANY GAPS

Flash ROM 2 includes the slothful VGB, but none of the decent Amiga GameBoy engines, and only two GameBoy games. The port of FMSX included is ancient, eclipsed by FMSX 2, or even v1.4, itself over two years old now. However, the CD has over 200 FMSX-compatible programs. *ABeeb* lacks the vital OS or BASIC ROMs.

There are obvious gaps, besides old versions. *Flash ROM 2*'s Amiga coverage is weak, lacking native versions of UAE or the 2600, ZX80 or ZX81 emulators for the Amiga, though it includes compatible applications.

The Amiga Sega and TRS80 emulators are missing; there's no sign of the three Spectrum 128 emulators for Amigas, no Jupiter Ace and no Nintendo 8-bit emulators either.

OVERALL

Flash ROM 2 includes good stuff unseen on Amineer or *AFC* CDs, but also some dross. Purchasers are going to have to dredge through the lot because the anonymous publishers haven't checked or organised the files particularly well. However, if you like emulators, you'll find plenty of treasure on this CD. **AF**

SUPPLIER: Epic Marketing, 0500 131486

<http://www.epicmarketing.ltd.net>

PRICE: £14.99

REQUIRES: CD drive, extraction software (*Lha*, *UNZIP*, etc)

Pros and Cons

- + Large Atari 8-bit, C64, Dragon and ZX-81 collections.
- + Wedges of CPC, Coleco, MSX, Oric and VIC stuff.
- + Some games included may not be Public Domain.
- + Few concessions to convenience for Amiga users.

OVERALL VERDICT: Mostly PC Shovelware but could still save much downloading time.

64%

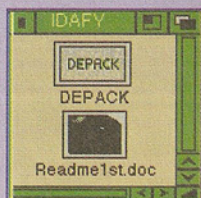
DAFY DISK

Epic's *IDAfy* costs £2 with this CD. The name optimistically stands for 'I Do Anything For You', but it doesn't.

In theory you drag files from the CD to *DEPACK*, a Workbench appicon, for *IDAfy* to identify and process appropriately. For instance, .doc and .txt files load via *PPMORE*, mysteriously leaving a window labelled "Decompactage en cours", then sulking until that's manually closed. Raw .html files zoom past in a Shell window.

Many of the emulation data files are in .zip format, unrecognised by *IDAfy* which bleats "caution: filename not matched: ram:" from its Shell. Ubiquitous .tar Tape Archives are also unsupported, though easily decoded by Amigas. Guide and .Text files are dismissed with "Le suffixe est inconnue" or "Ce fichier n'a pas de suffixe".

Epic pitch *IDAfy* at people who can't otherwise unpack an *Lha* to RAM: or view a GIF, and thus far it works. *IDAfy* includes essential Shell tools but its front end is inadequate. This CD isn't easily browsed on a standard Amiga, menu-selecting Show All Files for each subdirectory among so many. Use *Directory Opus* or something similar or you'll go mad.





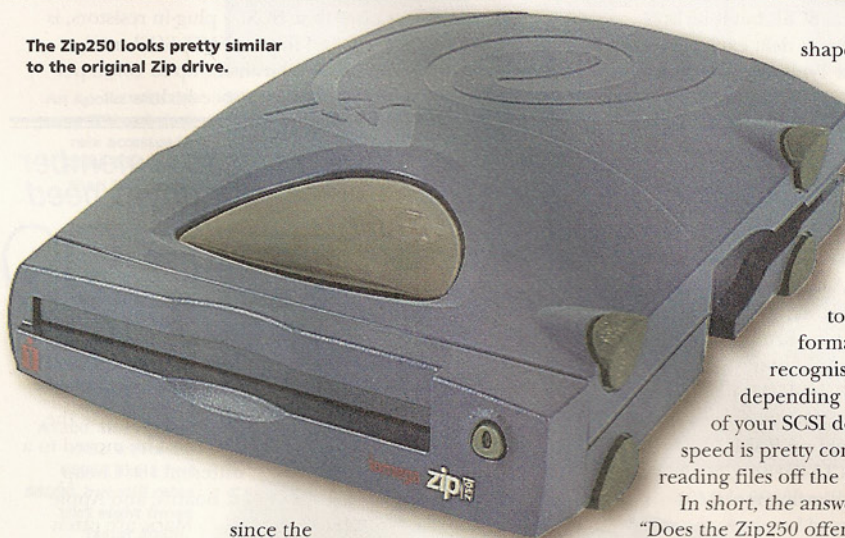
Zip 250

The third in the Zip range, this one offers more storage space, but does it offer anything else?
Ben Vost investigates...

At first glance you'd easily mistake the Zip250 for its smaller brother. Cased in the same blue plastic, the family resemblance is undeniable. However, instead of the familiar two lights on the standard Zip we only have a light in the eject button, and instead of what seemed luxurious lines when the original Zip came out, but actually turned out to be quite rectilinear, we now have the smooth curves of the Jaz 2. If anything, the drive is somewhat lighter than the original Zip, but still has the limitation of only two SCSI IDs.

But what of the media? Well, the Zip250 takes the standard Zip disks with no trouble, recognising them just as easily as its own native 250 million-byte carts (I hesitate to say 250Mb rather than 250 million bytes because they

The Zip250 looks pretty similar to the original Zip drive.



shape, but with a lump on a Zip250 disk that would mean it wouldn't fit in a Zip100 drive. In performance the Zip250 seems much like the original Zip to me. RDB-

formatted Zip disks get recognised or don't, depending on the capabilities of your SCSI device, and the speed is pretty comparable for reading files off the Zip250.

In short, the answer to the question "Does the Zip250 offer anything over and above increased storage?" seems to be "no". iomega have removed the parallel capabilities found in the ZipPlus which seemed to cause more problems than they solved, and reckon that they've upped the read speed of the drive to 1.7Mb, but little evidence of this could be found. Even so, the Zip 250 offers significantly more space to hold files on a disk, and the disks aren't more than double the price of their 100Mb counterparts, making this drive good value for money.

since the only noticeable physical difference between the disks is that while the Zip100 has a prism affair in the corner of the disk, the same corner on the Zip250 disk looks like it's been filled with chewing gum. Green chewing gum.

Other than that, the disks feel the same, seem to weigh the same and look the same, so it's only the saving grace of having a big yellow label on the Zip250 disk that has "250" written all over it that saves the day.

As with the Jaz2 drive, it would have been sensible of iomega to make the disks somewhat different – still the same

The Zip250 takes the standard Zip disks with no trouble, recognising them just as easily as its own native carts.

only format to about 238Mb). However, putting a 250Mb disk into a standard Zip drive is a recipe for a disaster.

Working out the distinction between the two formats might be tricky

SPEED DEMON

While reading files on a Zip250 is only slightly faster than off a Zip100 for either 250 or 100 disks, writing speeds are definitely different. We got the following results by copying a large, dense file (an 80Mb LZX file) to and from the combinations of Zips we have here in the office. The Zip was formatted using *HDInstTools*, with a standard 512-byte block size and the normal 30 buffers. The hard drive is an IDE drive with the same 512-byte blocks but with 250 buffers. The Zip drive was controlled by an A4091 SCSI II controller, the hard drive by the A4000's built-in IDE controller.

READING:

Zip250: 0.879Mb/sec (1:31.36 to copy the file from the Zip to the hard drive)
Zip250 (with Zip100 disk): 0.689Mb/sec (1:55.84, rounded up to the nearest second)
ZipPlus: 0.689Mb/sec (1:55.60, rounded up)

WRITING:

Zip250: 0.452Mb/sec (2:57.52, rounded up)
Zip250 (with Zip100 disk): 0.085Mb/sec (15:33.88, rounded up)
ZipPlus: 0.322Mb/sec (3:34.88, rounded up)

Obviously, better results can be achieved with more buffers, bigger block sizes and so on, but this is an interesting result, particularly the 85K/sec that a Zip250 gives writing to a Zip100 disk. Timing results were generated using the Unix *Time* command.

SUPPLIED BY: iomega

<http://www.iomega.com>

AVAILABLE FROM: Power Computing

PRICE: £189.95 (disks cost £19.95 each)

Pros and Cons

- Increased capacity.
- Slightly faster.
- Better looks.
- Slow write speed to Zip100 disks.

OVERALL VERDICT:

Great for your own data, slow to share with others.

80%

Typhoon Mark 2

Simon Goodwin compares the Mark 2 Typhoon with other A1200 accelerators and judges the merits of its on-board SCSI interface.

The Typhoon Mark 2 comes from DCE in Germany via Power Computing. This is the latest version with integral SCSI, but it lacks the on-board RAM and neat external port of the original Typhoon. The four-layer board is densely packed, with 10 chips on each side. The FPU and disk controller are socketed, with everything else surface-mounted.

Once again, Typhoon uses a SCSI 2 FAST interface chip made by NCR. This resembles the Mac controller, rather than the later DMA co-processors used on top-notch boards. Typhoon 2 has one 32-bit SIMM socket for RAM expansion up to 64Mb. This could potentially accommodate 128Mb SIMMs if available, but even 64Mb ones are rare and expensive. Typhoon RAM expansion is PCMCIA-friendly, as always, for A1200 boards allowing more than 8Mb.

Jumpers configure SIMM size, refresh type (to suit Apple variants) and SCSI termination. Active termination, rather than SCSI 1 plug-in resistors, is preferred for the FAST SCSI mode, which could transfer up to 10Mb per second between speedy drives.

The vital things to remember are that all your drives need distinct ID numbers, usually set with back-panel switches.

The SCSI interface is fixed at ID 7, which isn't a problem unless you want to connect machines via a short SCSI network, in which case the others must be moved to a different ID. Cheap boards, and Apple Macs, are often hardwired to use ID 7 to simplify their circuits.

This unit seems primarily aimed at tower users, with just one 50-pin SCSI connector poking up towards the inside of a standard A1200. It's easily accessible in a tower case such as the Atéo, but there's no obvious way to get the box shut after you've put it into a desktop A1200 and have made SCSI connections to the outside world. This is the big disadvantage compared to the Mark 1 Typhoon which Ben reviewed last year (AF117, 90%).

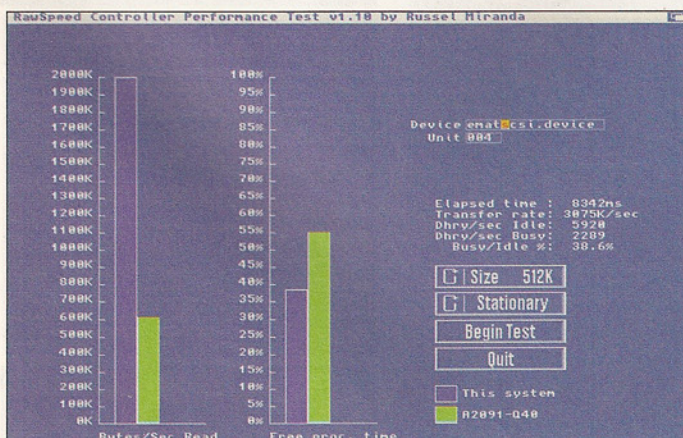
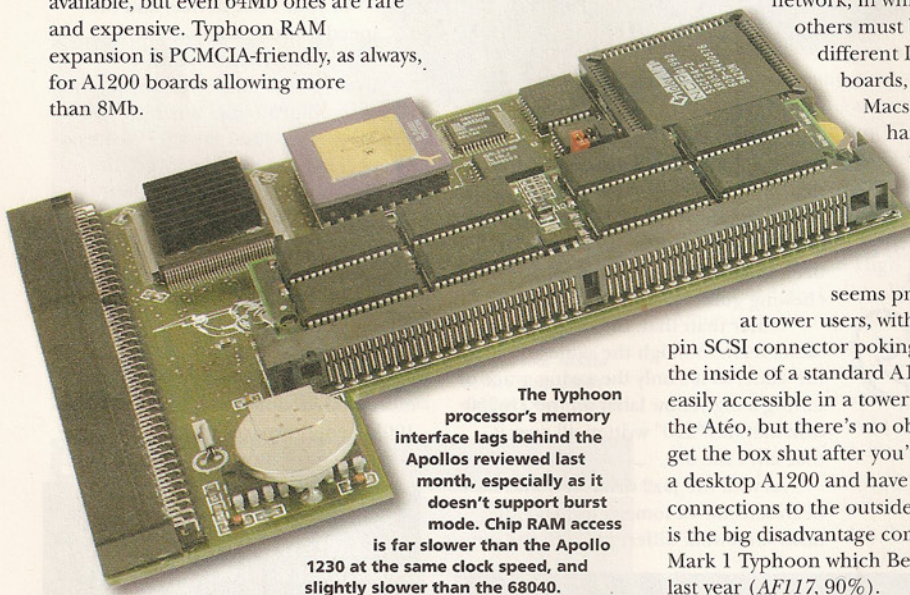
Typically, the trapdoor expansion is too big to comfortably accommodate the plastic panel which fits under the Amiga. You can make it fit properly by filing down the panel's ribs to clear components on the board, but many users opt to leave the trapdoor open, improving the heatflow around the components. The board is clocked at 40MHz, the 68030 has a heatsink and the FPU is located in a high-dissipation PGA metal package, so overheating shouldn't be the problem which it can be on faster boards.

The final jumper disables the entire accelerator, leaving you with a bare 14MHz 68020 A1200 with only chip RAM, PCMCIA, IDE and floppy, as if there was nothing in the trapdoor slot. This suits badly-written games that can't cope with extra speed or 32-bit addressing. The jumper points could be connected to the Turbo button on a tower case, though you can't switch back and forth without resetting the machine as Amiga OS doesn't take kindly to switching processors on the fly.

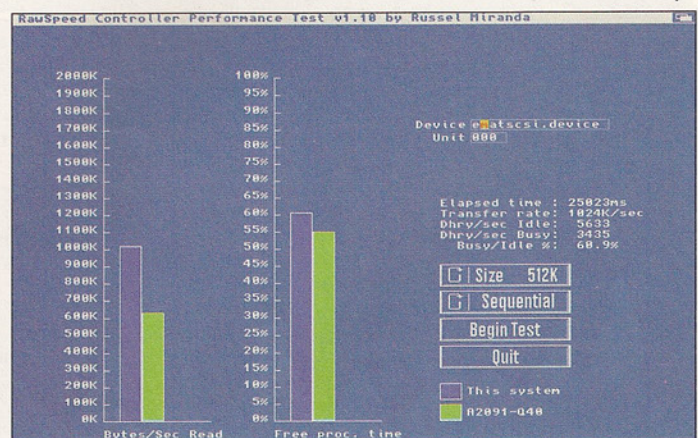
SCSI PERFORMANCE

The Typhoon incorporates an autoboot ROM so, unlike Classic Squirrels or Vipers, you don't need a floppy or IDE drive to get it started. If you do ditch IDE, you should seek out patches from Aminet and our CD to eliminate the startup delay while the Amiga looks for IDE drives, especially on Workbench 3.1.

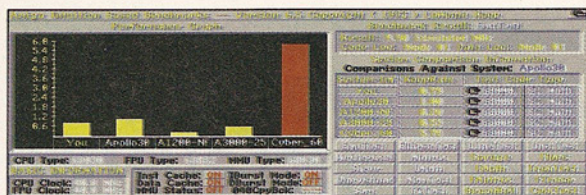
There's a delay of about a minute while the SCSI bus checks IDs 0 to 6 in vain if you run it without connecting any drives, but if you're doing that, why buy



Typhoon SCSI transfers on a 1Gb drive overflow the RawSpeed scale, tailored for Zorro 2 and A3000 tests, but clobber CPU performance.



An 80Mb Apple drive delivers around 1Mb per second and leaves most of the CPU time intact.



a Typhoon? The system starts quickly if you give bootable drives low ID numbers and set the 'last device' flag on the final boot drive so the Amiga doesn't wait in vain for boot information from scanners, CD and DAT devices with higher IDs. The maximum of seven devices should be enough for most people and the generous SCSI cable rules make it practical to approach this limit.

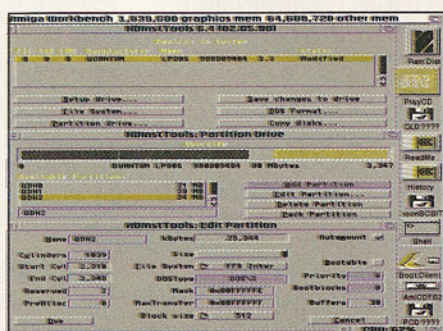
The vital things to remember are that all your drives need distinct ID numbers, usually set with back-panel switches or jumpers, and pin 1 (by the cable stripe) plugs in towards the middle of the board. Also make sure that the final drive on the 50-way cable is terminated. The jumper on the board should normally be closed, to terminate the other end of the chain, but there's nothing to stop you putting the interface in the middle of a cable with termination at both ends if that simplifies wiring in your tower. If so, leave the interface's termination jumper open.

SCSI 2 FAST interfaces should offer three times the throughput of the IDE or PCMCIA ports, but the Typhoon 2 controller hands the 68030 a lot of work when drives are active. My 1Gb IBM drive managed 3.3Mb per second, but sapped two thirds of the Typhoon's speed in the process.

Even 128K stationary reads devoured half the CPU time, delivering 2,403K per second. The difference indicates time spent seeking data when the 68030 can get on with other things. A smaller SCSI drive, rescued from a dead Mac, managed just 1Mb per second, leaving 61% CPU free.

The Typhoon comes with a support disk of PD utilities, convenient if you're using removable drives such as Zip or Syquest, and *AmiCDFS2*. This needs no Shareware ATAPI device as the superior ematcsi.device is linked from ROM as soon as you turn on the Typhoon system. Oliver Kastl's *HDInstTools 6.4* combines the functions of *RDBsalv* with Commodore's *HDToolbox*, *FORMAT* and *COPY*, adding support for password protection, big drives (via *TrackDisk64* and *NSD*) and optional 'head parking' when drives remain idle for five minutes or more.

The Typhoon 2 comes bundled with *HDInstTool* and *AmiCDFS2*.



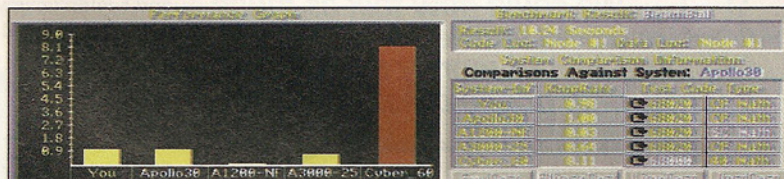
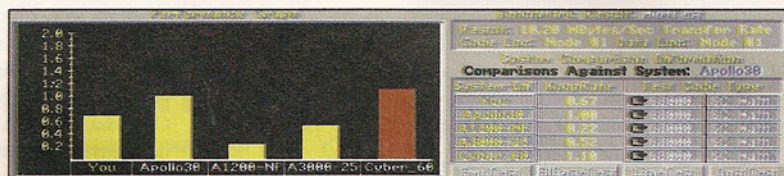
AIBB's emulator test rates Typhoon 2 four times faster than a stock A1200, between the A3000 and Apollo '030, and at a seventh of the speed of a CyberStorm 2.

An Apollo with the same CPU and clock rate accesses its SIMM 50% faster than Typhoon 2.

The Beach Ball rendering test puts Typhoon neck and neck with Apollo, 30-odd times faster than the stock A1200. The vintage AIBB treats the 68060 like a fast 68000, but still rates that eight times faster again.

32-BIT SIMM RAM SPEEDS COMPARED BY BUSTEST (in Mb/s)

| SYSTEM | Word | Long | Multi | Word | Long | Multi |
|---------------------------|------|------|-------|------|------|-------|
| Access | | | | | | |
| READ | | | | | | |
| WRITE | | | | | | |
| Typhoon 2 A1230/40 | | | | | | |
| Standard | 12.8 | 19.0 | 18.5 | 10.7 | 21.5 | 21.5 |
| Chip RAM | 2.2 | 4.4 | 4.4 | 2.2 | 4.4 | 4.4 |
| Apollo A1230/40 | | | | | | |
| Standard | 14.2 | 22.3 | 24.6 | 15.6 | 31.1 | 34.9 |
| Std+Burst | 16.4 | 27.4 | 21.9 | 15.6 | 31.1 | 34.5 |
| Chip RAM | 3.5 | 7.0 | 6.2 | 3.5 | 7.0 | 7.0 |
| Apollo A1240/28 | | | | | | |
| Burst+MMU | 34.2 | 38.1 | 35.4 | 22.4 | 23.0 | 22.6 |
| Chip RAM | 2.3 | 4.6 | 4.6 | 2.3 | 4.6 | 4.7 |



SUMMARY

The Typhoon Mark 2 would be unexceptional if it wasn't for its built-in SCSI interface. This could justify choosing it over a processor-only accelerator, unless phase 5's true DMA Blizzard 1230 is revived, once you've solved the problem of making connections to your SCSI drives.

Typhoon SCSI can outrun Squirrels and the motherboard interface because the controller doesn't have to squeeze data through the PCMCIA or IDE port. SCSI facilitates DAT drive backups, CD writing and the serious use of scanners, as well as CD-ROM, fixed and removable hard drives.

SCSI peripherals potentially outperform IDE or (worst by far) parallel port devices, but you need an intelligent DMA controller to see the full benefit. SCSI still commands a slight price premium but it's worth the extra; with DAT drives now available at around £50, there's little excuse for being caught without a backup.

The Typhoon's RAM interface is cautiously specified, but this allows more leeway for slow SIMMs. It's less fussy than the Apollos, even supporting the weird refresh pattern of Apple memories. It's a pity it just has one SIMM socket, especially as its internal SCSI connector suggests it's aimed mainly at tower users.

40MHz 68030 and 68882 processors are unexceptional by modern standards but they're adequate for Internet and Workbench activities and are compatible with most A1200 games. The MMU helps to track any program bugs and it can also boost emulation and Kickstart.

If you're into heavy rendering of sound or graphics, whether 3D, *AHI* or *JPEG*, you need to weigh the advantage of onboard SCSI against costlier rivals which have more bandwidth and processor power.

SUPPLIER: Power Computing 01234 851500, <http://www.powerc.co.uk> or <http://www.dccom.de>
PRICE: £89.95
REQUIREMENTS: Amiga 1200, SCSI drive(s)

Pros and Cons

- Built-in FAST SCSI controller.
- Can support a 128Mb SIMM.
- No external SCSI connection.
- Disappointing bus bandwidth.

OVERALL VERDICT:
A plausible choice for A1200 SCSI towers.

72%

STRICQ

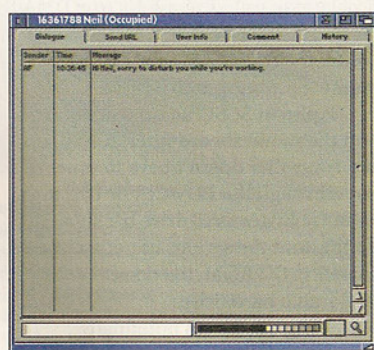
An Interview with
**Douglas
McLaughlin**

Ben Vost talks to the man who's trying to make talking on the net easier.

The ICQ program is becoming increasingly popular with Amiga users on the net, and we use it here ourselves. But it's surrounded in mystery because of the fact that its author, Doug McLaughlin, doesn't really want to attract unwelcome attention from its inventors, Mirabilis, especially now they're owned by multinational ISP AOL. In case you don't know, ICQ is a tool that enables you to check to see whether your friends and contacts are

“...we could now talk as much as we wanted to, without spending a lot of money on international phone calls...”

online, and lets you chat to them, send them files and so on. We had a chat with Douglas McLaughlin, the author of the Amiga's premier port *STRICQ*.



The chat window usually has a lot more going on in it than this.

The main window is as customisable as MUI programs usually are...

CONTACTS

STRICQ: <http://www.owl.net/Amiga/stricq>
Doug McLaughlin: UIN: 8083608
Amiga Format: UIN: 20459449

AF: What attracted you to writing a port of ICQ?

DMcL: In the first few months of 1998, my brother and mother started using ICQ on their PCs to chat in real-time and they kept telling me to get the program so I could talk as well. This was especially important to my mom, living in Texas, and myself being in the US Air Force and stationed at Kadena AB, Okinawa, Japan. At the time I didn't have any other computer than my Amiga 3000 and my wife's Amiga 2000 and couldn't enjoy the benefits of ICQ.

Then I started hearing about the Official AmigaICQ effort and started following their website's news updates. This became increasingly frustrating as it was soon obvious that this effort was going nowhere. This was when I started thinking about writing my own version.

AF: How long have you been writing the STRICQ program?

DMcL: I started searching on the web early in June 1998, going to different web search sites, and after about a week I found some hits pointing to some messages talking about how to hack and spoof the ICQ clients. One of these messages pointed to a website that had just been

set up with preliminary information on the ICQ protocol packets. I started writing STRICQ during the second to last weekend in June, and by the end of the next weekend I had a version of STRICQ that could log in, send and receive messages. Of course, I was talking to my mom and brother right away, using them to test the program.

They loved it that we could now talk as much as we wanted to, without spending a lot of money on international long distance phone calls.

AF: I know anyone who's read the FAQ will know, but can you tell everyone else why it's called STRICQ?

DMcL: The letters ST and R have prefaced every program that I've

written, starting with the Commodore 64 back in 1986 when I first released ST/R BBS and ST/R Term. ST stands for Star Trek and the R stands for Robotech.

These were my two favourite TV shows at the time. When I moved from my C64 to my Amiga 3000 in 1990 I had to drop the slash because it's a directory marker, something the C64 didn't have.

AF: Have you had any contact or help directly from Mirabilis in creating this Amiga client?

DMcL: None whatsoever. I think their attitude towards externally created clones became very evident during the first few months of 1998.

AF: So how have you done it?

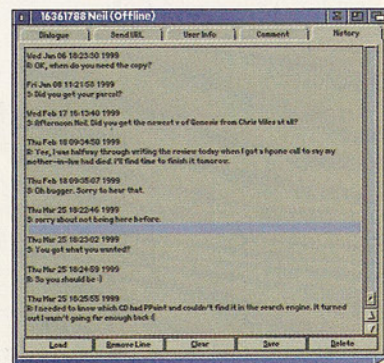
DMcL: There are several sources of information on the Internet and several clone authors, including myself, have pooled our knowledge to help make each client better and more compatible.

AF: What plans have you got for the future of STRICQ?

DMcL: Most of my plans for future enhancements come from user suggestions on the STRICQ support mailing list. My largest current plan is to move from the old protocol version STRICQ currently uses to the latest protocol which is used by the new ICQ99a clients.

AF: Do you intend to try to get "official" status for it at any point?

DMcL: There may be something developing in this area, but at this point I'd rather not say any more.



Here's the history of what I was talking to Neil about.

Power 2x CD-ROM

Reader Reviews

Danny Shepherd takes this CD drive for a spin.

Power's AF Gold award winning CD-ROM drive doesn't require hacking your machine apart. In fact, you won't need any common (or uncommon, for that matter) tools because it comes complete with HiSoft's innovative Squirrel SCSI PCMCIA interface. So not only will you have a nice new CD-ROM drive, you'll also have a passport into the world of SCSI, although the Power CD-ROM has no through port so it must go on the end of the chain.

The CD drive I got was obviously designed for a laptop. It's very slim and black which won't look good if you decide to put it in a tower at a later stage. It's also the only drive I've ever seen where the entire mechanism pops out when you press eject. The drawer isn't a servo type and so it only pops out a short way. You have to do the rest.

The case is a basic, black, hammered finish which serves its purpose. The external power supply is very sparse in that it doesn't even have a power switch so I just left the drive on all the time. It's been on for about a year now and is none the worse for it.

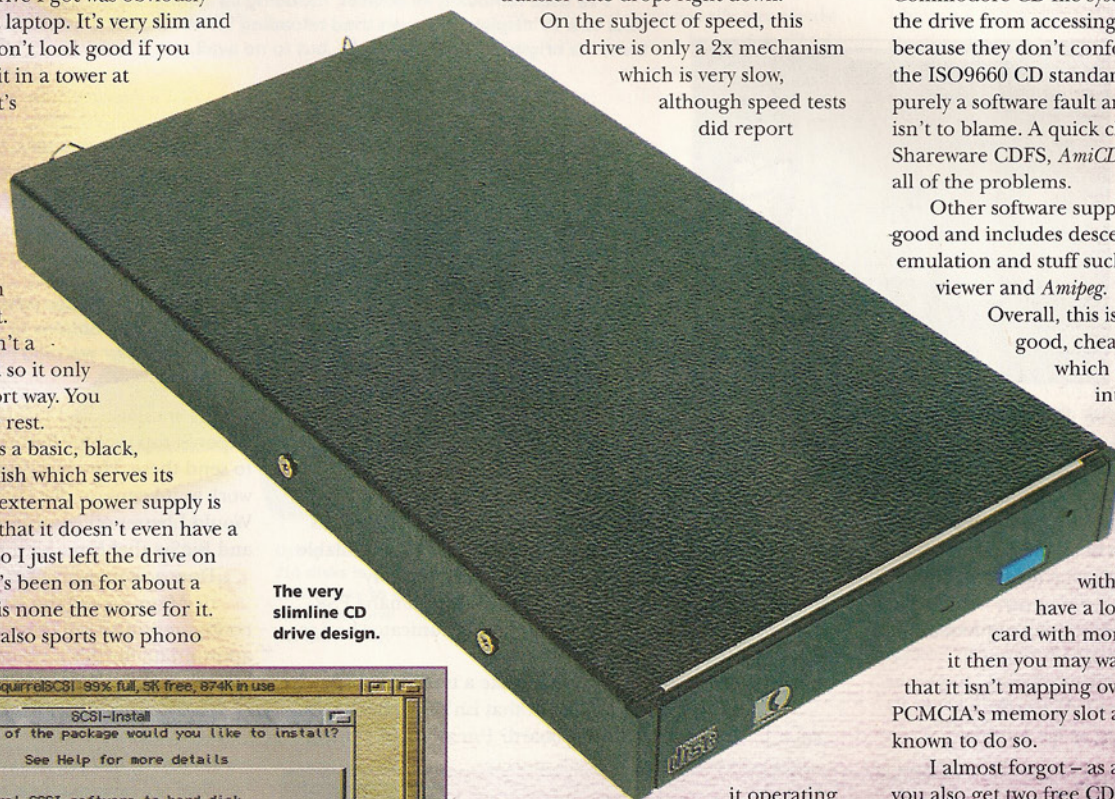
The drive also sports two phono

connectors for the audio which can be fed into speakers, or you might want to run it through a mixer so that your Amiga's audio comes through the same speakers. The audio playback is surprisingly good for such a cheap mechanism and it tolerates damaged disks much better than my cheap audio

66 The audio playback is surprisingly good for such a cheap mechanism and it tolerates damaged disks well. 99

CD player. It also tolerates damaged CD-ROM disks too, although the transfer rate drops right down.

On the subject of speed, this drive is only a 2x mechanism which is very slow, although speed tests did report



The very slimline CD drive design.



BEN'S VERDICT

Although Power's cheap CD was praised for its cheapness back at the start of last year, it's starting to look positively expensive these days, considering how cheap very fast ATAPI CD-ROM drives are, even with external casing. All the same, having access to the possibility of multiple SCSI devices can only be a good thing.

YOUR REVIEWS

Have you got any software or hardware you couldn't live without? Got any that you'd happily chuck in the bin? Write a fair and accurate review of about 750 words and you could see your work appear in AF!

We will also need some good photographs of any hardware you review and a passport photo of you. Send your reviews to:

Amiga Format • Reader Reviews • 30 Monmouth Street • Bath • Somerset • BA1 2BW.

The major downside for this bundle is the software. Power used the official Commodore CD file system which stops the drive from accessing some CDs because they don't conform exactly to the ISO9660 CD standards. This is purely a software fault and the drive isn't to blame. A quick change to the Shareware CDFS, *AmiCDFS*, will sort out all of the problems.

Other software supplied is pretty good and includes descent CD³² emulation and stuff such as a *PhotoCD* viewer and *Amipeg*.

Overall, this is an extremely good, cheap bundle, of which the SCSI interface is the most expensive component. I've never had any problems with it at all. If you have a low-tech RAM card with more than 4Mb on it then you may want to check that it isn't mapping over the PCMCIA's memory slot as some are known to do so.

I almost forgot – as a final bonus you also get two free CDs with the drive, both of which are games.

it operating at speeds just above the 2x standard. The only applications that will suffer from 2x drives are spooling anims; icons on the Workbench will appear quickly enough.

The drive is a Toshiba mechanism, which is known to be reliable, and is set up to use SCSI ID 3. This can be changed by setting the required jumpers. Unfortunately, they can only be accessed by opening the drive. This probably won't pose a problem as if you had any conflicting devices you wouldn't be buying the bundle.

SUPPLIED BY: Power Computing
PRICE: I bought mine in February 1998 for £79.95

OVERALL VERDICT: A great drive at a fairly cheap price, let down by poor software support.

90%



Workbench

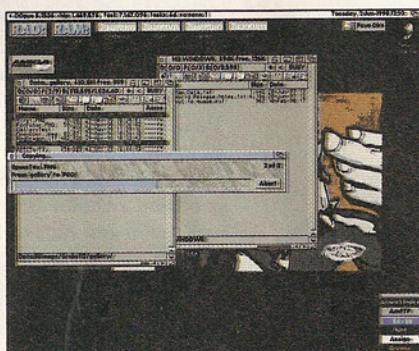
Technical queries solved by **John Kennedy**. Email: amformat@futurenet.co.uk, putting Workbench in the subject line, or write to: **Workbench • Amiga Format • 30 Monmouth Street • Bath • Somerset • BA1 2BW.**

MS? MUSTN'T SAY!

Here's a very basic question from a "not as young as I would like to be" novice. I'm trying to extract a picture file from a PC-formatted floppy. Is the MS-DOS set up in the *CrossDos* program the correct way to go? I assume the MS stands for Microsoft but I can't actually see it written anywhere.

*Terry Davis
via email*

You probably won't see it written anywhere either, as the Lawyers of Bill are always lurking where you least expect them. Yes, CrossDos is the utility to use. It'll mount a new virtual device which can read and write to 720K MS-DOS-formatted floppy disks.



CrossDos is just what you need for copying PC files.

PATCHING IT UP

Having a girlfriend who's singing and playing keyboards in an electro-band, I've been trying to make myself invaluable to her by using my A4000/'040 25MHz to help out her, and the rest of the band, with demo recording and sampling. Now I want to sequence the keyboard parts of their songs on my Amiga, as the internal

MODE CHANGE

I have an 18Mb Amiga 1200 running Workbench v3.0, 68030 Typhoon processor, 260Mb hard drive, 32x IDE CD-ROM and a 15" VGA monitor connected with a Scandoubler. Whenever I boot up, I get the following message: "Intuition is attempting to reset the Workbench screen. Please close all windows, except drawers - Reply Retry or Cancel".

It happens just around when it executes the IPREFS command. I can't progress any further with the boot until I hit Cancel, then it does one of two things: the screen goes to four-colour screen in PAL mode, which I have to reboot from, or it goes into the correct screenmode of 16 colours in VGA mode.

I've tried removing all devices, including swapping the hard drive and reverting back to a TV display. I've even tried reloading ENVARC: prefs & startup-sequence from the original Workbench disks, but to no avail.

*Andrew Wells
Bookham*

During the boot process, your Amiga is trying to change screen modes. However, another program has opened a window, and before it can close and reopen the screen, this window must be closed. Looking at your startup-sequence, I can see the following line:

```
syspic dh0:syspics/1*.pic 1 25 2 fadein 8 fadeout 8 bf r=255 g=0 b=0
```

which immediately jumps out at me. Try commenting it out and see what happens. If this is the culprit, you should experiment with the various options to ensure it opens its display in the right mode. This should prevent your warning message.

sequencer of her keyboard doesn't have enough memory for storing all the songs.

However, unlike the sequencer of the keyboard, I'm unable to make sequences using the "right" sounds as only General MIDI sounds are available to me. I use *Bars & Pipes Pro*. My girlfriend's keyboard is a Yamaha PSR-520. I use a CD32 communicator box as a MIDI interface.

1 How can I make a track use an instrument that isn't GM, but exists on her keyboard? I'm aware of control

change messages and I've been using the Super Setup tool on *Bars & Pipes* to try to send these. However, I can't make it work as it keeps on playing GM sounds. Would I better off trying Sysex messages and BigSys that came with *B&P*?

2 Does a sequencer like *Sequencer One* or *Music-X* need the same kind of configuration or will they be more appropriate for this kind of job?

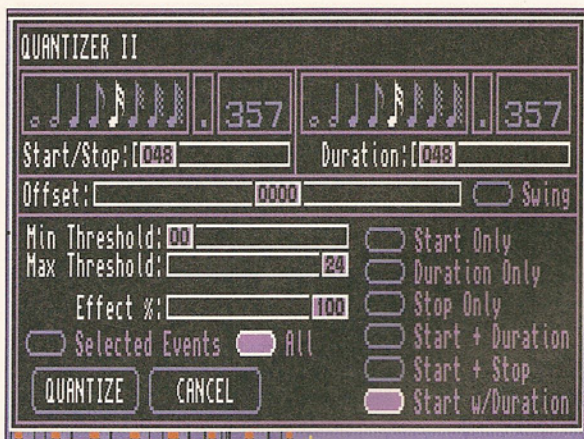
*Tore Welde
Trondheim Norway*

1 I'm hoping that you shouldn't have to get down to SysEx level. One of the first things to try is to change the program number on the keyboard, and check to see if Bars and Pipes can capture that particular MIDI message. I'm not sure how exactly the PSR orders its internal voices, but if you can't reach the ones you want with GM messages, you'll have to start experimenting to see if you can send MSB/LSB Bank Select messages. It can get a bit messy, which is why capturing a program change is easier.

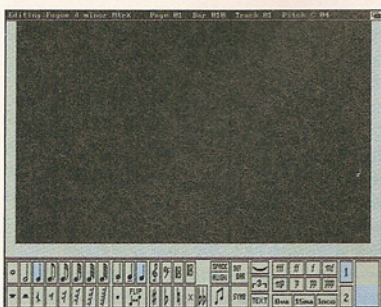
If all else fails, it's out with the synth manual to work out the pattern of bytes you need to send it in order to select the other voices as a SysEx message. Not much fun I know, but often a blast of SysEx information



If your keyboard isn't General MIDI compatible, what do you do?



Other sequencers might not be as capable as B&P Pro when it comes to dealing with non-standard MIDI keyboards.



at the start of your tune is the only way to configure equipment.

2 Sequencer One is probably a little basic for your needs. MusicX v2 is definitely my favourite sequencing tool, although it's very difficult to find these days. You'll find both have the same problem of addressing non-standard voices on synthesizers which provide them. In fact, if you can't find the SysEx values to send, you might have to stick with manually setting the patches. Sorry!

MUSIC MASTER

Just a short note about the Sound Advice column on sound devices. You mention in the feature boxout that you can use Minidisc for mastering and some more information on that would be very useful as I've recently purchased a Minidisc recorder.

One other point – although it's not that widely available any more, can you offer some advice on using the Miracle

keyboard for MIDI use, etc? As well as the Amiga-specific serial port connections, it also has MIDI in and out sockets, plus a large section of in-built sounds. Along with the touch sensitive ability, I'm sure it would make a very useful addition if some information on accessing these functions was available.

They're pretty cheap to get too – I've seen a couple on the net for around £100, and that includes the tuition software and cables, which isn't bad for a keyboard with full size keys and touch sensitivity. Apart from that, trackers aside, could you recommend any software that I could use for standard musical notation? I'm pretty old fashioned about writing my music and it's easier to send notational script to other musicians.

Nimrod
via email

Minidisk is a digital format and is therefore a useful, high quality recording tool. Although a lossy system, it's still high enough quality to be useful. The big question is what you plan on doing with your recordings. If you want them duplicated professionally, you should first ask your mastering house if they'll take Minidisk as an acceptable format. They might not, in which case DAT or CD-R are your best bets.

Both MusicX v2 and Bars and Pipes have notation features, and Bars and Pipes at least is available free on the Internet if you know where to look.

ZIPPITY DO DAH

In a few weeks I'll be getting a lovely Yamaha A3000 sampler. If I buy a Zip drive (SCSI 2) for the sampler, could I use it on the Amiga, i.e. getting lots of net stuff from the local cybercafe and then transferring it to my computer? Does it matter if the cybercafe's Zip drive is IDE?

I really need your help to get hold of Music X v2, boxed with manual, too. I've tried everywhere. Will it even work on my A600, 2Mb? If someone has a copy, please email me.

Finally, in the near future I'll be getting the fastest A1200 PPC I can afford, shortly followed by net access. I also have to pay £8 for the CD version of AF here in the Republic of Ireland but it's worth every penny.

Rocky
Rocky@cisl.ie

It doesn't matter than one drive is IDE and the other is SCSI. I've swapped discs between systems like this and it works fine. What is a problem is that each of the three systems in your Zip love triangle is going to use a different format: PC, Amiga and Yamaha's own Sampler Format, which may or may not be PC compatible. To share files between the PC system and the Amiga, you'll have to

Feedback

Having read John Hart from Liverpool's query regarding his Blizzard 603e causing his A1200 to hang on bootup, I can offer some help as I had exactly the same problem.

I narrowed it down to SetPatch and cured the problem by moving it nearer the beginning of my startup-sequence. Hope it works for him too.

Gavin Williams
via email

make sure your Amiga is configured to read the Zip drive as a PC device. You'll have to create a new MountList for it, using CrossDos to read the files written to it by the PC.

I'd definitely get net access before new hardware, just so I could shop around online for news, the latest prices and bug fixes. Perhaps the answer to the eight quid Amiga Format is to subscribe, saving a lot of money, or you could always nip over the border to Newry and buy it there instead.

DON'T LEAVE ME HANGING

I have a CD³² with an SX-1 and I've got the thing up and running with everything working well: the hard drive is running, the floppy drive is okay, the keyboard is fine and the FMV card is working with CDVideo films. Normal CDs and CD³² games are booting up and working as normal.

I've just hit a snag and I know it's only a software hitch, not hardware. I use Ami-FileSafe Pro and my internal hard drive is 127Mb (in my SX-1). I'm using RDPrep to configure my HD as normal, as I've done loads of times before. When I'm trying to copy my Workbench 3.0 disks over to the HD (after formatting) it goes okay and then just stops. It just hangs there and won't do anything else.

I know this is only a MaxTransfer and/or DMAMASK setting. Do you know what settings I should use? One other thing: these are the Workbench disks from my A1200, which use a different Kickstart chip to the CD³². Would this make a difference? I've tried these settings: MaxTransfer 0x1fe00 and 0xf000 DMAMASK 0x1fffff (7).

Ken Walsh
via email

How do you know for certain it's software and not hardware? I'm intrigued why you've had to prep and install your system "loads of times" – have there been problems in the past? I know that Ami-FileSafe has been generally considered risky and, to be honest, it's this that I'd first point the finger of suspicion towards.

Try setting up your system without using AmiFileSafe to see what happens. More good news is that it's also possible that your hard drive is starting to fail. The fact that the disks are from your A1200 shouldn't make any difference: the Kickstarts are similar enough.

Continued overleaf →

HIGH SPEED

I have an A1200, an Apollo '060 accelerator with 32Mb of fast RAM and a 2.1Gb hard drive, running Workbench 3.1. I recently purchased a Zyxel Omni.net modem and I've had some problems entering the Internet. Do I need to get a high speed serial port?

Rune Kinnerod
Norway

That really depends on the nature of your problems. It would be easy to configure your Internet access software to talk to your modem at 19,200bps, for example, and wait for problems to occur. If they don't, maybe a faster serial port is indeed what you need.

If you still get problems, it could be that speed isn't the issue and that something else is to blame.

SNAIL EMAIL?

I have an A1200, 16Mb of fast RAM, Blizzard '030 at 50MHz, 540Mb IDE hard drive and a Dynalink 56K modem, all running on OS 3.0. My problem is with my modem. I'm using the email software called YAM and my problem is with getting mail from pop3 servers.

When I use FTP, or even the web, I manage to get CPS speeds of up to 40,00, but when downloading and uploading mail I sometimes don't even get 500cps. This is a very irritating problem, as you could imagine, and I'd be glad if you could help.

Mike Cardwell
via email



Your mail server might be to blame for slow loading times, rather than your modem.

As the mail and FTP systems use the same transport mechanism – that is, a TCP/IP stack operating over your modem's serial link – it sounds to me like the blame actually lies with the mail server your ISP is using. Perhaps it's seriously overloaded or perhaps it's not completely compatible with your email client and is operating with lots of errors (or "sub-optimally" as the Americans like to say). Try using your ISP at an obscure time to see whether using it when it's not as busy solves the problem.

Better still, try using another ISP (there are plenty of free ones about to experiment with) to ensure that it's not your Amiga which is to blame.

APPLE PRINTER

I would like to make use of my (expensive) HP Laserjet 6MP under Mac emulation (*Fusion/Shapeshifter*). This printer features both an Apple "local talk" and a parallel port.

I understand that I need to have an appropriate driver that redirects the serial output to the parallel port of the Amiga. Where can I find such a driver? I've tried emailing Microcode Solutions but I didn't get a reply.

Ben Hermans
Antwerp, Belgium

DON'T TELL ME: DEAD DISK?

I have an A1200 (Power Towered), Blizzard '030 with 8Mb RAM, 4-way buffered IDE interface, 2.5" 540Mb HDD and a 24x IDE CD-ROM.

My problem is that my hard drive has died on me. A couple of days ago it loaded up Workbench (v3.0) fine, except that during loading it told me that my "Boot" partition (DH0:) had a read error. I didn't note down the block number but it may have been a two-digit number.

Once Workbench had loaded I ran DiskSalv on the partition but it found no errors and came up with nothing. The next time I booted up, the following day, it gave me two similar warnings regarding dodgy bits on "Boot" and refused to load up any more. I reset the machine and was greeted with the 'Insert disk' screen.

Resetting again, I accessed the Early Startup screen only to find that my hard drive partitions (DH0:, DH1: and DH2:) had vanished. Switching off and powering up again did no good, and while the hard drive wasn't working my A1200 refused to recognise my CD drive when I tried to boot it from floppy. Removing my IDE buffer from the setup didn't help – the problem remained.

I tried loading up FastPrep but it told me that there was no hard drive connected. I continued to reset the machine and try again (as I have previously had a problem with the angle of my HDD and hoped this might be related), and on one occasion the partitions reappeared on the Early Startup screen, but the next reset failed to boot the HDD. Since then my

Amiga hasn't even acknowledged my hard drive's presence. It's as if there's nothing plugged into the IDE port on the motherboard.

Firstly, any idea what's happened? Also, assuming, as I am, that the files are still intact, is there any chance of retrieving them? I'm hoping so; I had recent work that wasn't backed up on the hard drive and it would be gutting to lose it. This is the first major problem I've had with my Amiga in over five years so it may have given me a false sense of security.

James Potter
via email

Ooh, nasty. It doesn't look good. It looks a lot like your hard drive has started operating in a mode of non-functionality. Or, to put it another way, it's broken. Assuming you've checked the obvious: loose cables, disconnected power or data plugs, drive being fouled by wires, then it really doesn't seem good. Hard drives do wear out: a disk spinning at 5,200 rpm will have problems at some point – the read error could have been your only warning. It's even possible a stray cosmic ray passed through one of the controller ICs and zapped it. Possible, but unlikely.

Try using HDToolbox to locate the drive and read its parameters. You can write these to the disk, and if you recreate the partition information exactly as before, this shouldn't lose any data. If the drive still fails to appear in the list of devices in the boot menu, I think it's time to consider the very real possibility that the worst has happened and the disk is dead.

You need the printer driver which is mentioned in the Shapeshifter documentation. It's called Chucks printer driver and you'll find a link to it at this very useful website:

<http://www.ozemail.com.au/~cyberwlf/MacEmul.html>

BAD BUS CRASH

I'm having difficulty in getting my towered Amiga 1200 (board rev. 1D4) to recognise any Zorro cards with a MicroniK Zorro 2 busboard while a Blizzard PPC '060 accelerator is active.

If I disable the accelerator holding the number 2 key while booting the machine, the Amiga recognises the busboard and Zorro cards, but while active it can't find anything. What's the problem? Does it sound like a busboard

incompatibility with the Blizzard accelerator? Do you know of anybody who has a functioning towered A1200 with a Zorro busboard (MicroniK/EZ4 busboard) which is working with an '060 PPC accelerator?

Joe Vitale
via email

Erk, that doesn't sound good. In fact, it sounds as though the bus system is just incompatible with the Blizzard. Perhaps there's a software patch to update the bus. Anyone out there know or have a solution?

DIY PARTITION

How do I make real PC partitions on my hard drive for PC-Task or Emplant Deluxe? The docs in PC-Task suck and the Emplant docs are too brief.

LAY IT ON ME...

Do you know where I can find layers.library? Thank you.

LaMoine MacLaughlin
Wisconsin, USA

It's been part of the Amiga Workbench release since, well, before release 2 anyway, so as far as I know it's in ROM. This is very likely as it's quite a low level

library. The Layers Library provides routines to manage overlapping rectangular drawing areas, so you can imagine how important this is to the ordinary

Amiga for looking after windows. You can open it from within your programs, like any other Amiga library, using the OpenLibrary() function, like this:

```
struct Library *LayersBase;
if (NULL != (LayersBase = OpenLibrary("layers.library", 33L))) { // Use the library CloseLibrary((struct Library *)LayersBase; )
```


I have a GVP '040/33, GVP Spectrum in a 16Mb A2000HD.

Tony Kowalski
via email

A partition is a way of logically dividing your hard drive into separate virtual drives. So, instead of your drive appearing as Workbench: on the Amiga desktop, it could appear as Workbench: and Work:. To you, and the Amiga, it's the same as having two separate drives, except that they're both on the same disk.

Using a utility such as HDToolBox, you can edit existing partitions and create new ones. For example, to create a new partition you first reduce the size of the existing one and then add a new one. The total size of both partitions cannot exceed the capacity of the disk.

Warning: if you alter the properties of an existing partition, everything stored on it will be lost. It isn't possible to resize a partition and retain data, even if there's plenty of free space on the disk.

SEND IN A REPLACEMENT

I have heard that I can use a replacement file system instead of the standard Workbench file system, which will eliminate hard disk validation errors. Does anybody at Amiga Format use a different file system? I'd like to know where to get hold of

the software and whether it would be compatible with all my current Amiga software, including *Directory Opus*.

I bought a second hand CD³² over the weekend for £25 (bargain!). I was suitably impressed at how well the Amiga Format CDs work on it (excellent work and support from the Amiga Format Team). As there was no manual, I wanted to find out what the AUX port (next to the game ports) and the S-VHS port were for?

Mass Cerritelli
via email

Yes, there are various third party filing systems available, like PFS2 from Greed Development. Personally, I wouldn't use it. If you're getting a lot of hard disk validation errors, there has to be a reason. Maybe it's a failing hard drive, unbuffered IDE interface or a lack of power – I'd check all these before trying to solve the problem by using another file system.

The AUX port is a serial port and can be used for various purposes, such as linking the CD³² to another Amiga with a networking utility such as SERnet.

The S-VHS port outputs video which is suitable for display on an S-VHS compatible television set. S-VHS separates colour and brightness information, and as a result it gives a slightly better picture than you'll get on an ordinary video.

MORE CHIPS, PLEASE

I have an A4000T with a Cyberstorm PPC/060 and CyberVision PPC, OS 3.1, 128Mb of fast RAM, a Zip and a Jaz drive, a CD-ROM, a CD-rewriter, 2.1Gb HD and a 1,200 dpi scanner. There's nothing really wrong with them, I just wanted to brag! No, seriously, I run a photo imaging business on my Amiga. I use Photogenics 2a for my graphics work, but when I'm working with very large image files (30+ Mb files) I keep getting a fatal error about running out of chip RAM. I have tons of fast RAM left and I use the graphics card to keep my system from using the chip memory for display, so how can I get Photogenics to use my fast RAM instead of my chip memory?

I keep having to reset my clock after I turn off my computer for more than five minutes. I figured it's a battery problem so I opened up my tower and located the coin-type battery at the bottom of the computer by the slots. According to my dealer and everything I've read, the battery should be held in place by a clip, yet mine seems to be soldered in or something similar and it won't come out. Any ideas?

My little brother bought my A1200 from me and he has one problem with it. His has an A1200 with a DKB Cobra 68030 card with 64Mb of fast RAM, OS 3.0, 170Mb internal IDE HD. His problem is with the Surf Squirrel he uses to connect a hard drive and CD-ROM to his A1200.

The chain is terminated correctly yet whenever we hook up the Squirrel it will have transfer problems, no matter what we have hooked up or in what order. For example, the HD will work fine, then the access light will come on and stay on and the drive is then locked up. He loves Amigas, so please tell me how to solve this problem.

Bob Gilbert
Grove City, Ohio

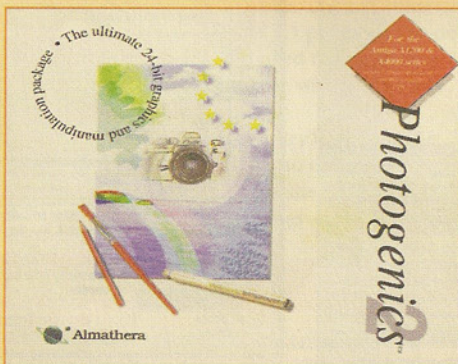
Photo imaging on the Amiga with Photogenics 2a.

Make sure that Photogenics is using the right kind of video driver and is using the video card directly, rather than re-directing the screen by a mode promotion utility. Many graphics cards will store graphics data outside the chip RAM space, thus preventing the memory problems you experience. Also ensure that blitter operations are turned off (for the blitter to work on data, it needs to be in chip RAM) and switch off the Workbench display in the background.

If the battery really is soldered into place, you'll either have to snip it out or unsolder it, both of which are scary operations. Once removed you can attach a new battery with similar specifications.

If this is too much, your local PC dealer should be happy to do it for you. Just don't tell him it's an Amiga beforehand.

First check that you have the latest drivers for the Surf Squirrel. Secondly, are you really, really sure you have everything terminated properly? Try swapping the order of the CD-ROM drive and hard drive, and try a new cable, keeping the length to the minimum possible.



IF YOU HAVE A QUERY...

At Amiga Format we aim to answer as many questions as possible. Unlike some magazines, we don't just



John Kennedy.

concentrate on our areas of expertise – we take on all your problems (as long as an Amiga is involved).

Also:

- Be concise.
- Do your best to detail the problem.

- Describe the events that caused it.
- Give full details of your equipment.
- Make sure your question is relevant and wouldn't be more easily solved by contacting the dealer from whom you bought the goods.

Fill in, photocopy or copy the form below as best you can. Unfortunately we cannot reply personally.

You can email your queries to amformat@futurenet.co.uk, putting "Workbench" in the subject line.

Send your letters to Workbench, Amiga Format, 30 Monmouth Street, Bath, Avon BA1 2BW.

Your Amiga:

- | | | |
|-----------------------------|---------------------------------|-----------------------------|
| <input type="radio"/> A500 | <input type="radio"/> A500 Plus | <input type="radio"/> A600 |
| <input type="radio"/> A1000 | <input type="radio"/> A1200 | <input type="radio"/> A1500 |
| <input type="radio"/> A2000 | <input type="radio"/> A3000 | <input type="radio"/> A4000 |

Kickstart version

- ☐ 1.2 ☐ 1.3 ☐ 2.x ☐ 3.x

Hard Disk: Mb

Manufacturer:

Extra RAM fitted – type, size, (Mb) and manufacturer:

Details of other hardware:

Amiga.net

Dave Cusick explains the pros and cons of making use of web caches.

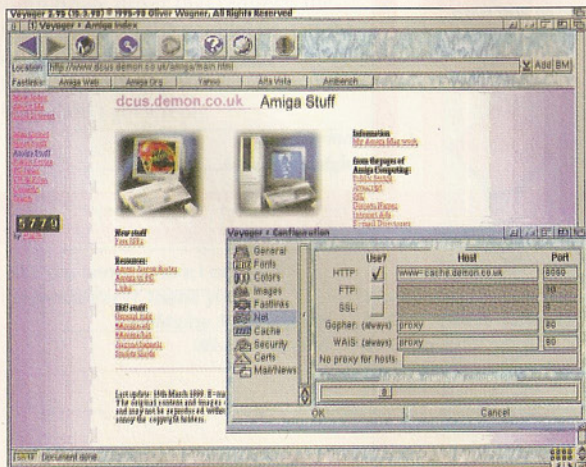
The Internet is clogged up. As more and more people come online around the world, the infrastructure upon which the network depends is becoming increasingly stretched. It's not a new problem; things have been getting progressively worse since the web started to become popular around 1994.

Attempting to apply the law of copyright to proxy caches is about as appropriate as using a carrot to mow your lawn.

The web has contributed in a huge way to the strain on the Internet. That's because every time you request a web page, a series of requests has to be made to the server on which it resides. Data then has to be passed from that server through a series of routers around the world to your Internet Service Provider, and thence on to you.

Internet Proxy Caches can help to reduce the strain on the network. They work on the same principle as local caches. Typically, every web browser uses its own local cache, which is simply an area on your hard drive where pages you've requested in the past are stored

In Voyager, the proxy settings are located on the net page of the General Settings screen.



CONTACT POINT

I can be reached with comments, suggestions and feedback at dave@dcus.demon.co.uk or via my website at <http://www.dcus.demon.co.uk/>.

The next time you ask to see those pages, they can be loaded from your hard drive rather than having to be requested from a remote site.

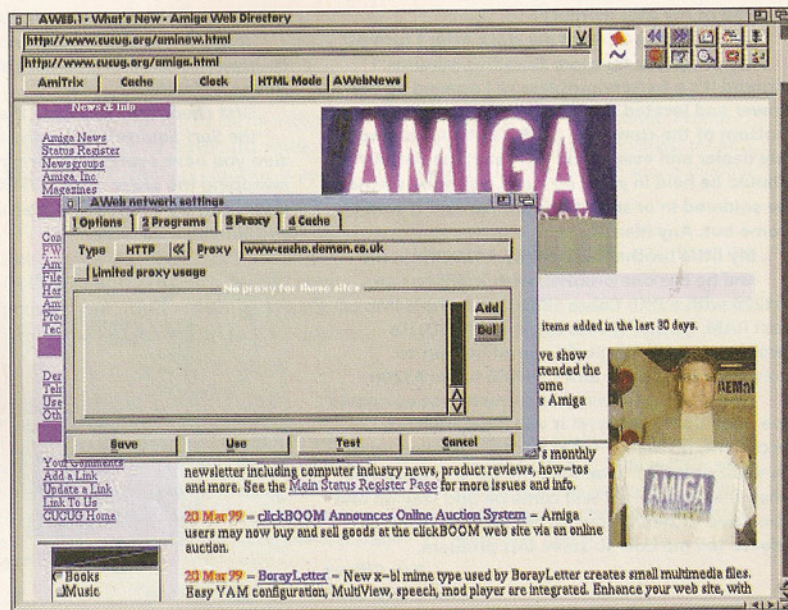
Proxy caches work in the same way except that they're located at remote sites and serve multiple users. When your browser is configured correctly, every time you request a site the program will see if there's a copy stored in the proxy cache. You might have requested this copy yourself in the past, or another user of the cache might have requested it. If there's a copy there, your browser will display that copy and a request will never actually be sent to the remote site from which the page actually originates.

Caching obviously has a beneficial effect in reducing network load, but it also offers fast access to pages; because the request is travelling directly to the proxy cache, if that proxy is located relatively close to you – for instance, if it's maintained by your ISP – then there's a single hop between you and the source of the pages you're viewing.

Many ISPs provide their customers with a proxy server address which they can enter into their browsers. If you're not already using one, it could well be worth contacting your ISP, finding out the address details and entering them into the appropriate requestor within your browser's settings screen.

This being the real world, of course, there are bad sides to caching. Firstly, because a cache holds a copy of the remote site you're accessing, it may not provide the most up-to-date version of the pages on that remote site. Fortunately, most browsers let you check for more up-to-date versions of pages before accessing the cache; the options are generally located in a window called Network Settings, or something similar.

Secondly, the European Union has recently begun debating whether caches infringe copyright laws. Because copyright exists in web pages just as it does in any other form of document, broadcast or whatever, it's been suggested that caching pages on proxy servers is in fact illegal.



In AWeb, the proxy cache settings page is to be found under Network Settings

Suffice to say that if it were to be deemed illegal and proxy caches were to be forbidden, the web would grind almost to a complete halt, such would be the strain on its already overburdened paths. Not only that, but the law would also by extension make local caches illegal, so you couldn't even store pages on your hard drive temporarily. Essentially, attempting to apply the law of copyright to proxy caches is about as appropriate as using a carrot to mow your back lawn.

Thirdly, caches cause practical problems for webmasters. Let's imagine for a moment that you've created a wonderful website which you want the whole world to see, and you've set up an elaborate counter on your index page so you know exactly how many people are visiting it. Well, the chances are that your precious counter won't produce especially accurate results because the counter image will be cached by proxy servers around the world, and people who are accessing your site via those proxy caches won't show up on your counter at all.

Similarly, users who view your site through a proxy server won't necessarily be getting the latest, most up-to-date version of it – they'll be getting the site stored on the cache. While many computer users would know how to ensure they were getting the latest version despite coming through the proxy cache, there's a fair chance that a lot of newcomers wouldn't, and they would remain in blissful ignorance of the fact that they weren't seeing the latest version of the site.

There's even a danger that people could come across a cached version of your site when using a search engine, and proceed to the cached version without ever coming across your actual site. Fortunately, this is exceedingly unlikely because web crawlers don't usually index caches.

As a Webmaster, it's therefore worth thinking about the implications of web caches and making use of the HTML elements which are designed to allow you to control how caches treat your pages. In theory, the easiest way of instructing caches not to store copies of your pages is to include the appropriate <META> tag in the header of your pages, like this:

```
<META HTTP-EQUIV="Pragma" CONTENT="no-cache">
```

Alternatively, you can specify a date after which a cache should not store the page:

```
<META HTTP-EQUIV="expires" CONTENT="Sun, 21 Mar 1999 20:00:00 GMT">
```

Most browsers follow this rule, although, notably, Microsoft's *Internet Explorer* browsers don't, and according to recent statistics, upwards of 50% of web users may now be using various versions of

ICQ UPDATE

Although there are now a number of extremely impressive Amiga ICQ ports out there, Brian Gilbert, the chap who originally contacted Mirabilis in an attempt to organise an official conversion, is still beaver away on his own *AmigaICQ*.

Brian has created all the graphics for the project within the capabilities of the somewhat outdated *MUIBuilder* and has constructed an extensive mock-up of how the GUI should work. He's now looking for somebody to replace some of the classes, such as string and

listviews, with some of the better alternatives which have become

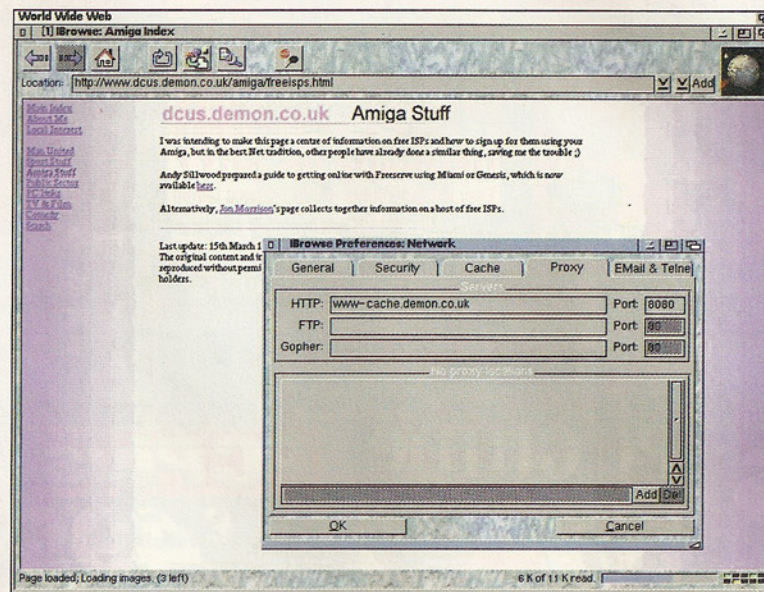
available since *MUIBuilder* development ceased, and for any help with the interfacing of the ICQ protocol handling library. Fairly advanced *MUI* experience is probably essential.

If you reckon you can help, Brian can be contacted via his ICQ UINs, 6880132 and 421330, or via email on brian@mcmedia.com.au.

StriCQ is probably the best Amiga ICQ client currently available.



With Mirabilis now being owned by AOL, ICQ is becoming more common than ever across the computing world.



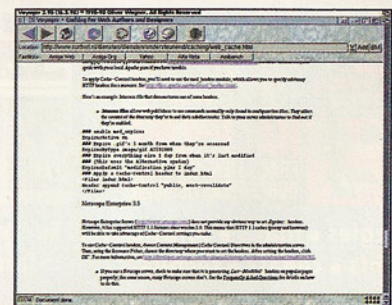
Again, it's the Network Settings window which contains the proxy settings in *iBrowse*.

this program. Even worse, many proxy caches don't take any notice of META tags at all.

The only way to instruct these caches not to store copies of your site's pages is by locating the pages on a server which sends certain elements of the HTTP 1.0 and 1.1 protocols. To do that though, you need to be running your own web server, which, of course, most of us are not.

Another way to try to reduce the effects of caching is to ensure new content within your site is placed on pages with new names – in other words,

as they should be doing.

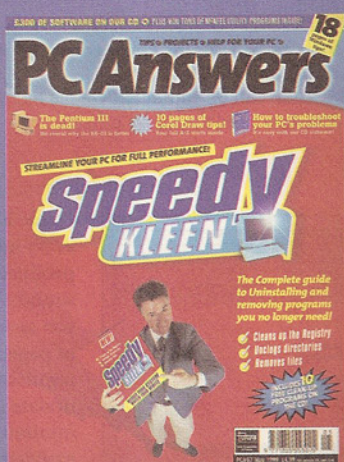


Caching for Web Authors may not be much to look at, but it makes interesting reading.

USEFUL URLS

Caching for Web Authors: http://www.surfnet.nl/diensten/diensten/ondersteunen/caching/web_cache.html
Cache Now! <http://www.vancouver-webpages.com/CacheNow/>

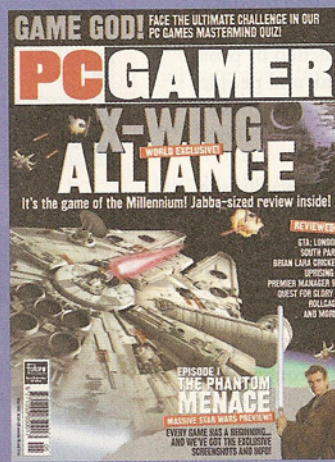
If you've got a PC as well, WE'VE GOT IT COVERED!



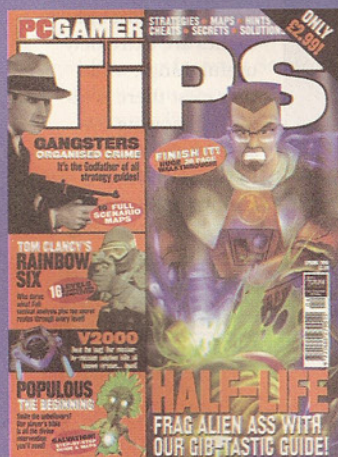
The essential guide for anyone who wants to make the most of their PC.



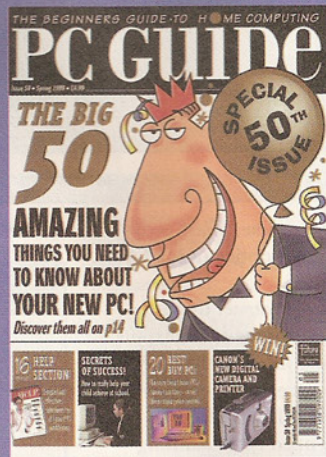
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CREATIVE

The indispensable guide to getting the most out of your Amiga

By the time that you lot will be reading this, it will be almost summer. You'll be thinking of spending time in the garden or at the beach, but just because there's a bit more ultra-violet radiation kicking about the atmosphere, it doesn't mean that you should ignore your Amiga. To make sure that you don't, we have three more fact-packed tutorials to get those creative juices flowing.

Nick is getting closer to making ARExx useful, this month showing you how to loop-the-loop in your scripts, Simon carries on banging the metal with a look at CIAs (which has nothing to do with shady intelligence agencies, but everything to do with timer chips in your Amiga), and, in the penultimate part of his HTML tutorial, Neil guides you through imagemaps, a fairly simple way to liven up navigation of your website.

Richard Drummond

SEND IT IN!

WE NEED YOUR INPUT.

Is there something that you would like to see covered in one of the current tutorial series? Why not send your suggestion to us at the magazine. Here are some things you might like to think about:

PROGRAMMING

Is there a language you can't get to grips with? Or maybe you want to know how to do a specific thing in C or ARExx? You might never find the answer unless you write in and tell us about it!

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Unsure of how how your Amiga really works. Not sure if you are getting the best from your hardware? Write to us.

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Is there something you desperately want to be able to draw? Drop us a line! Contact us at:

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Bath • Somerset • BA1 2BW
or email: amformat@futurenet.co.uk
putting "Creative" in the subject line.

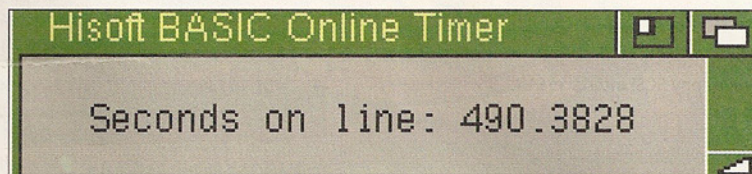
68 USEFUL AREXX

Loops are a vital programming construct. Nick Veitch shows you how to use them.



70 BANGING THE METAL

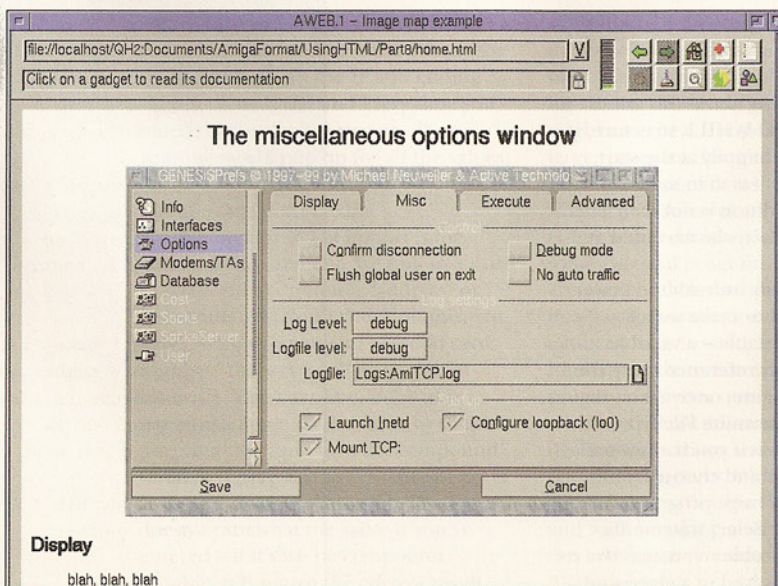
Simon Goodwin exposes yet more of your Amiga's inner secrets.



Banging the Amiga's hardware to find out how long you've been online.

72 HTML

Neil Bothwick shows you an alternative to boring old text links in your web pages.



Imagemaps enable you to make this screen grab act just like the real thing.

Useful ARExx

In the third tutorial in this series, Nick Veitch explains how going loopy can be useful.

This month we're going to talk some more about loops and how they can be used. In actual fact, we've already used a lot of different types of loop already, particularly last month, although there are still three more types we should take into consideration.

The first is a slightly different style of the common indexed loop, but it includes a step. For example, if you wanted to loop down, decrementing by a step of two, you would use:

```
Do loop = 10 TO 2 BY -2
  Say loop
END
```

This loop would output 10, 8, 6, 4, 2 and stop. BY is an extra keyword, used to identify the step amount.

DO WHILE is a useful loop structure which keeps the loop going as long as a particular condition is met. For example:

```
DO WHILE name = "Nick"
  SAY "Do you want a Guinness"
END
```

What makes this loop different is that it will only be executed at all if the condition is met before the loop starts. In this example there will be no output at all if name doesn't contain "Nick" when ARExx gets to the Do statement. The final type is the DO UNTIL:

```
DO UNTIL z < x
  z = z - x
END
```

The important thing about this one is that, unlike the DO WHILE structure, it will execute quite happily at the start, even if z is already less than x, and therefore the condition is not met. This type of loop will always be executed at least once.

In order to truly unleash the power of a loop, we need to make use of another type of variable – a variable which we can easily reference using the loop counter. Imagine, once again, that we're trying to determine FileTypes. What would happen if you had several dozen to check for and choose from? You'd end up with huge programs full of If statements or Select statements. Fortunately, this problem has already been solved, and solved in a classy and

Contents

Chapter 1: Basics

Chapter 2: Maths and Variables

Chapter 3: Loops

Chapter 4: Strings and Functions

Chapter 5: More Commands

Chapter 6: More to come...

If you've missed any tutorials in this series, call our back issue hotline on 01458 271102.

spectacular way in true ARExx fashion. Now read on...

“Arrays are very good for storing large quantities of similar information, rather like a database.”

ARRAYS

ARExx can handle the complex variable type known as an array. This is simply a

variable which has a name and an index number. Think of it like a library. The array variable name is the name of a book, and the index number is the page number. Each page contains different information, but all the information is easy to access as long as you know the name of the book and the page number. Arrays are very good for storing large quantities of similar information, rather like a database.

ARExx calls its arrays “compound variables”, and they're even more

Listing 1

A SIMPLE DATABASE PROGRAM FOR RETRIEVING DATA

```
record. = "Not Known"
record.ben.phone = "01225 442244"
record.ben.address = "30 Monmouth Street"
record.ben.postcode = "BA1 2BW"
record.mark.phone = "01225 123456"
record.mark.address = "12 Slowly Walk"
record.mark.postcode = "ZZZ 40K"
record.colin.phone = "01225 222345"
record.colin.address = "3 The Gutter"
record.colin.Postcode = "S022 LED"

DO forever
  SAY "I know everyone, go on, ask me about someone"
  PULL name
  IF record.name.phone = "Not Known" THEN DO
    SAY "Well, nearly..."
    LEAVE
  END
  SAY "Oh, old " name "..."
  SAY "His phone number is " record.name.phone
  SAY "His address is " record.name.address
  SAY "His Postcode is " record.name.postcode
  SAY "What did you want to know? (phone/postcode/address)"
  PULL what
  SAY "As I said, his " what " is " record.name.what
  SAY "Ask me another"
END
```


powerful than the array structures you'll find in traditional languages like *BASIC*, but easier to use than the complex pointer structures as found in *C*.

As we said, the variable is made up of two parts: a name, or stem, and an index, which are separated by a full stop. For example:

```
name.1 = Colin
name.2 = Mark
name.3 = Ben
```

are all valid statements in ARExx, and all relate to different variables.

The power of this lies in ARExx's ability to evaluate and parse variable names so that, for example, when *x* is equal to 3, *name.x* is the same as *name.3*

SHORT ARRAY EXAMPLE

```
name.1 = 'Ben'
name.2 = 'Colin'
name.3 = 'Mark'
Do loop = 1 to 3
  Say "name " loop " is "
name.loop
END
```

Okay, I guess you get the general idea of the way ARExx handles simple arrays, but that really isn't the half of it. You can have multi-dimensional arrays just by adding a further component to the compound variable, so there's no reason why you can't have:

```
name.1.1 = ben
```

This is really useful for handling all sorts of data. Think of a three dimensional graph, for example. You could store the *z* values in a two dimensional array, *value.x.y*, and using some nested loops you'd easily be able to extract the *z* value for each *x* and *y* co-ordinate for a graph or whatever.

Just to make ARExx's compound variables even better, you don't even have to use numbers. For example:

```
record.mark.phone = ' 01225 717834'
record.mark.name = 'Mark Wheatley'
```

is perfectly valid, even if 'Mark' and 'phone' are not in themselves variables representing numbers. This is what we're using for our example program this month – a database.

This listing is fairly straightforward in terms of structure, but there are a few special bits and pieces you should pay particular attention to. The first is the very first line (not counting the comment). This line sets up the whole compound variable beginning "record." as having the value "Not Known". This simply means that if you try to get the value of any compound variable beginning "record." which hasn't been defined, it will return that value.

It isn't necessary to do this, but it can be useful because you may want to



return some statement if a record isn't there. You could remove the check (the bit beginning with the IF and ending with the first END) and every time you entered an unknown person, "Not Known" would pop up for all the values; the ARExx program wouldn't even care that the data didn't exist.

The next thing of import is the second Pull statement. We pull in a word which is either "phone", "address" or "postcode" (we don't check on this, but as we've seen, if you enter "credit card number" the script will just say "Not Known"). The next line, we're able to immediately return the value by simply plugging the input into the compound variable. There are no IFs and SELECTs as you might have expected. The script doesn't care what the value is you've entered – if it's in the compound variable, it'll return the correct result.

Although the classic example of a database is an address book, as we've illustrated here, it can obviously be used for storing all sorts of useful stuff. It might even be a component of a much larger program. Imagine, for example, a huge database of convolution matrices which could be applied to graphics data, either within ARExx itself or through some external program. Array structures are very handy for storing complex data in a way that makes it easy for you to extract what you want, when you want it. Remember that when you come to write programs on your own.

In next month's issue we'll be dealing with strings and the functions pertaining to them. We'll also find out about the very flexible Parse command and we'll be taking a look at how you can add argument support to your ARExx scripts.

Banging the Metal

Simon Goodwin reveals 8520 Complex Interface Adaptor
PEEKs and POKEs.

AFCD40: In the mag/Banging The Metal

ON THIS
MONTH'S CD

This part of our advanced tutorial series addresses the Custom Interface Adaptor 8520 'CIA' chips in more ways than one. It shows you how to read counters and flash lights, as well as how to test and set serial and parallel port signals, directly from *BASIC* and from Shell scripts.

Two CIAs provide timing pulses and general purpose control lines used throughout the Amiga system. They culminate generations of interfaces, from the original PIA 'Parallel Interface Adaptors' via 'Versatile' VIAs found in earlier Commodore computers like the VIC20 and C64.

Amiga CIAs are dwarfed in complexity by the DMA custom chips – Paula, Agnes and Denise on 16-bit Amigas, or Paula, Alice and Lisa on 32-bit AGA systems – but they're still neat, and quite essential to the Amiga, as owners of the Draco would-be Amiga-clone will attest. Much Amiga software thrives on Draco's retargetable audio and video, but falls over unless authentic CIAs are added to the MacroSystems board.

CIAs are vital to communication between the Amiga and the outside world, implementing the keyboard and parallel ports, joystick buttons, disk and serial port control lines, audio filters and the power light. They also keep track of time, in various measures; from a few dozen display fields per second, through hundreds of scan lines per field to the hundreds of thousands of 'E clocks' pulses every second.

The CIAs are relatively easy to program because they're passive devices. They don't do anything except tick quietly to themselves, unless explicitly programmed. They're unexciting compared with the DMA

Contents

Chapter 1: Custom Space

Chapter 2: Custom Time

Chapter 3: Complex interface ports and timers

Chapter 4: Mouse Organ

Chapter 5: The elegantly powerful co-processor

Chapter 6: More to come...

Make sure you don't miss a tutorial in this series. Call our subscriptions hotline on 01458 271102.

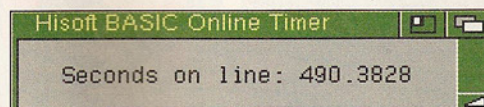
chips, which continuously communicate with one another and main memory, but still do lots of useful work.

The diagram shows how the CIAs contribute to the Amiga system. CIAA manages disk and joystick fire inputs, parallel port data lines and the keyboard link. CIAB adds outputs to control four floppy drives and handshaking lines for the serial and

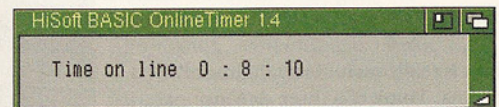
parallel ports. These signals are also available on Zorro internal 'video' connectors where they serve double-duty, controlling Video Toaster and genlock features. The table lists bit assignments by port address.

SERIAL EXAMPLE

The HiSoft *BASIC* listing shows a simple way to record time spent online, for

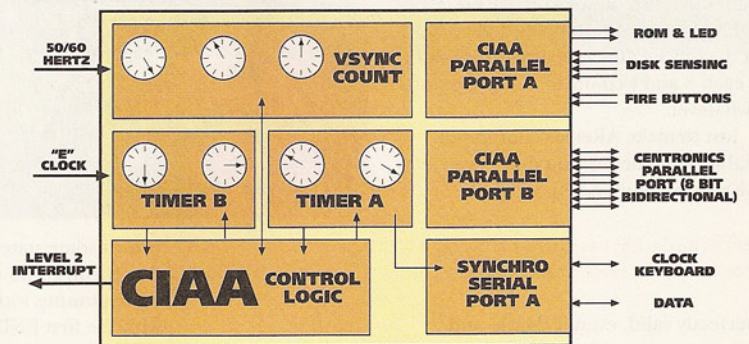


The simple Online Timer in action.



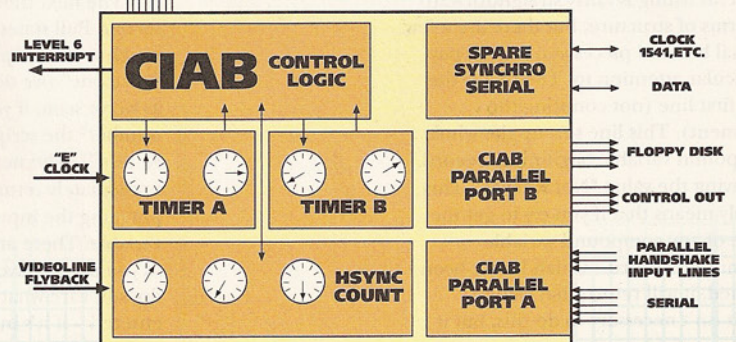
The friendlier Online Timer from the AFCD.

Internal
organisation of the
Amiga CIAs.



AMIGA COMPLEX INTERFACE ADAPTORS

Note: Floppy & RS232 data connects direct to Paula



Flashing Light Digital Output

```
; AF Shell Script Parallel port output back!
; Call should open PAR: to allocate hardware

echo "Press Control D to stop blinking loop"
poke ciaa 768 %11111111 ; Parallel outputs

lab LOOP
  poke ciaa 256 %00000000 ; All outputs off
  wait 1
  poke ciaa 256 %10000000 ; Turn pin 9 high
  wait 1
skip LOOP back
```


CIA PORT BIT ASSIGNMENTS

| BYTE | BIT | DIRECTION | PURPOSE |
|--------|-----|-----------|---------------------------|
| BFD000 | 0 | In | Parallel printer busy |
| BFD000 | 1 | In | Printer out of paper |
| BFD000 | 2 | In | Printer SEL (online) |
| BFD000 | 3 | In | Serial Data Set Ready |
| BFD000 | 4 | In | Serial Clear To Send |
| BFD000 | 5 | In | Serial Carrier Detect |
| BFD000 | 6 | In | Serial Request To Send |
| BFD000 | 7 | In | Serial 'Terminal Ready' |
| BFD100 | 0 | Out | Pulse steps floppy head |
| BFD100 | 1 | Out | Floppy stepping direction |
| BFD100 | 2 | Out | Select floppy disk side |
| BFD100 | 3 | Out | Select floppy drive 0 |
| BFD100 | 4 | Out | Select floppy drive 1 |
| BFD100 | 5 | Out | Select floppy drive 2 |
| BFD100 | 6 | Out | Select floppy drive 3 |
| BFD100 | 7 | Out | Turns on drive motor(s) |
| BFE001 | 0 | Out | Put ROM in low memory |
| BFE001 | 1 | Out | Power LED/Audio Filter |
| BFE001 | 2 | In | Floppy disk changed |
| BFE001 | 3 | In | Floppy disk protected |
| BFE001 | 4 | In | Floppy disk at track 0 |
| BFE001 | 5 | In | Floppy drive is ready |
| BFE001 | 6 | In | Joystick 0 fire on pin 6 |
| BFE001 | 7 | In | Joystick 1 fire on pin 6 |
| BFE101 | In | Out | Eight-bit parallel data |

communication software like *TERM*, as well as TCP/IP stacks. It works by reading the standard serial port hardware. Similar hacks are also possible for other interfaces, given their port addresses. Signals are generally 'active low' so a 0 level on bit 5 of CIAB port A indicates modem carrier detection, for instance. In *Assembler* you'd write:

```
btst #5,$BFD000
bne NoCarrier
```

The *BASIC* equivalent is:

```
IF PEEK(12570624) AND 32 THEN PRINT "No Carrier"
```

When programming the serial or parallel port, utilities like *MapDevice* may

Serial Port Online Timer

```
REM Metal-bashing AF Online Timer by SNG
REM $INCLUDE dos.bh
LIBRARY OPEN "dos.library" ' For Delay
WINDOW 1," Hisoft BASIC Online Timer", _
(200,16)-(240,56),1+2+4+16+256
CIAA_PRA%=12570624
Timing%=0 : LOCATE 2,4
PRINT "Seconds on line: 0";

REPEAT check
  CD%=(PEEK(CIAA_PRA%) AND 32)
  IF CD%
    Timing%=1 : Start!=TIMER
  ELSE
    IF Timing%
      LOCATE 2,20
      PRINT TIMER-Start!;" ";
    END IF
  END IF
  Delay &30 ' Update periodically
END REPEAT check
```

divert calls for SER: or PRT: to alternative hardware. Opening the standard name doesn't necessarily allocate the default hardware. Check this with another PEEK:

```
PEEK DEV=serial long 10 string
```

This returns the name of the real device selected when you open the device named after DEV= above, such as "pit.device".for Multiface parallel redirection or "duart.device" for GVP serial ports.

PARALLEL EXAMPLE

The binary value in register \$BFE301 configures parallel port bits as inputs or outputs. This gives you eight general-purpose control lines, ideal for hardware hacking. Take care to avoid short-circuiting any output, especially on AGA Amigas with unsocketed CIAs. To prevent other programs or the system interfering while you're poking, open PAR: or parallel.device unit 0. Always allocate resources before use; then you can bang the metal without disrupting the rest of the Amiga system.

The Shell script illustrates parallel digital output. POKE CIAA 768 %11111111 selects eight outputs. Substitute 0s for 1s to make some bits TTL-compatible inputs, suitable for UPS or alarm sensing, Brailer switches or other homebrewed hardware. To run the script, click on the CD icon or type:

```
EXECUTE BLINKER <PAR:
```

The redirection <PAR: ensures that the parallel port is allocated while the script runs, so the system leaves it alone.

The program flashes an LED connected between pin 9 (parallel port most significant data bit) and ground (on pins 17 to 25). Less significant bits use pins 2 to 8.

WAITs determine the flash period. Connect the light in series with a resistor of 470 to 2200 ohms to limit the current. Swap the LED pins if it doesn't shine. LEDs only work one way round. Keep connections short, and don't use torch bulbs as they drain too much power.

CIA SERIAL

Each CIA implements a serial port – not the RS232 kind, with its free-running asynchronous data and miscellaneous handshaking lines for flow control, but 'synchronous serial' where each data bit is accompanied by a pulse on a serial clock line. Unlike RS232, sent and sampled at a prearranged rate, the transfer speeds of these ports depend on the rate of synchronising clock pulses. They stop and start arbitrarily as bits of data become available.

CIAA handles the keyboard interface. 'Raw key' events are detected by a separate microprocessor connected to the keyboard, converted to codes corresponding to the key position. Raw key codes take no account of the

marking on the key-top but are useful in emulators when the key's placement and effect is more important than its legend.

Keymaps convert raw codes into ANSI characters. UK Kickstart 1 Amigas have SETMAP GB in their startup to configure Shift 3 as a pound sterling rather than a US hash symbol. Modern Amigas do this by referring to the DEVS:Keymaps drawer.

There's another serial port in CIAB. This isn't used by the Amiga system, but it's ideal for communication with old Commodore and Atari peripherals which expect a synchronous serial interface. See the FS1541 and Easy1541 drivers or vintage Commodore emulators for examples of programming this port.

CIA TIMERS

Each CIA chip contains a 24-bit counter and two 16-bit timers. The timers are clocked at one tenth of the original Amiga clock rate, around 700KHz. The exact value depends on the video standard, PAL or NTSC, and can be checked with:

```
PEEK LONG library exec 568
```

The timers count down from the 16-bit value loaded into their registers. Timer A low is the fifth byte register, with the high byte (count*256) in the sixth register. The counts for Timer B are in the next two registers, in the same order. When they reach zero they can generate an interrupt and optionally start counting down again.

A VERSUS B

All four timers run at the same rate, shared by the system software or allocated by timer.resource's AddICRVector. Timer A in CIAA synchronises keyboard interfacing. CIAA (odd) counts Vertical Sync pulses and can generate level 2 interrupts. Peek LIB exec 530 returns the Vertical field rate, typically 50 for PAL and 60 for NTSC.

CIAB (even) counts horizontal lines (Hsync pulses) and generates correspondingly faster level 6 interrupts. CIAB can reprogram the system at a specific scan line; your programs can read it to check the current line.

PEEK CIAB 2048 gives the scan line number, inevitably outdated by the time scripts have read it. PEEK CIAB 2304 reads the next byte (scans times 256), invariably zero in 200-line NTSC mode, rising to 1 or 2 in DBLscan modes.

NEXT BITS

Part 1 briefly tabulated CIA counter, timer and port addresses. For details of the CIAs and their connections, consult Chapter 8 and Appendix F of Addison-Wesley's *Amiga Hardware Reference Manual*. Next month we bang Paula's metal with elegant *SuperBASIC* to generate polyphonic stereo sound and harmonies unmatched by MIDI.

Using HTML

Neil Bothwick points out that imagemaps can be really useful.

AFCD40: In the mag-/Using HTML



A link is a link and each time you click on it you go to the same page, right? Not so! A text link may jump to the same place each time, but an image may link to a different address depending on where on that image you click.

An imagemap is a clickable image, but unlike the standard construct of an `` tag within an `<A>` tag, this one will jump to a different URL according to the specific point on which the user clicks. There are many ways to use this; for example, you could use a single

An image map is a clickable image, but it will jump to a different URL according to where on the image is clicked.

imagemap across the top of a page as a menu bar, instead of using separate buttons in a table. A company could display a map of the area they cover, with each part of the map linking to the page of the branch covering that area.

TYPES OF IMAGEMAP

There are two ways to implement an imagemap: server side imagemaps and client side imagemaps. Server side imagemaps are the original way of doing it. The image is contained within a normal `` tag where the URL is that of a map file on the server. Clicking on the image sends the name of the file and the co-ordinates selected to the server. A script then reads the map file, calculates the URL for those co-ordinates and returns that document to the browser.

This is useful if your map needs to link to a CGI script anyway, such as a database, but otherwise it involves

```
<MAP NAME="mymap">
<AREA SHAPE="RECT" COORDS="0,0,100,50" HREF="top.html" ALT="top">
<AREA SHAPE="RECT" COORDS="0,51,100,100" HREF="bottom.html" ALT="bottom">
</MAP>

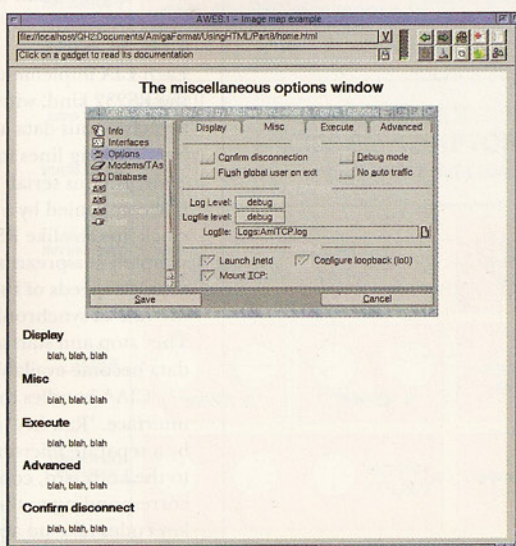
<IMG SRC="mymap.gif" WIDTH="100" HEIGHT="100" ALT="Image map" USEMAP="#mymap">
```

Our example documentation. Note the help text in the browser's status bar.

This displays an image that takes you to one document if you click in the top half and another for the bottom half. Normally you would have the map data in the same document as the map. However, if you want to use the same data on several

pages, you can put it on the home page. This page should already be in the user's cache when they select an imagemap on another page so there's no network access needed. It's a good idea to put the data before the image – if you put the image first and the page is slow in loading, the user could click on the map before the map data has been loaded.

`` has an extra attribute, `USEMAP`. This tells the browser that this is a client side imagemap and to use the map data named "mymap" in the



CREATING IMAGEMAPS

Clearly you don't want to be counting the individual pixels of an image to create the image map data. Fortunately there are several options to generate the `<MAP>` data with only a few mouse clicks. The CD contains ARExx scripts for *ImageFX* and *PPaint 7* (given away on AFCD26) that generate the map data by "drawing" the areas on the image (I used *ImageFX* for the example here). There are also a couple of independent image map creators available on Aminet.

current document (remember, starting a URL with # links to a named item on the current page). The <MAP> tag only takes one attribute, its NAME.

Within the <MAP> tag we have a number of AREA tags to define each clickable area. Each AREA tag takes these attributes:

SHAPE: Can be one of RECT, CIRC, POLY, DEFAULT. The first three define the area as a rectangle, circle or polygon. DEFAULT applies to all parts of the image not specified in another AREA tag. You would normally use this for the last one.

COORDS: The co-ordinates of the area. This varies according to the SHAPE used. For a rectangle, the co-ordinates are x1, y1, x2, y2. The first pair are the co-ordinates of the top left, the other refers to the bottom right corner.

A circle has three co-ordinates, x, y, r, referring to the x, y co-ordinates of the centre of the circle and its radius. A polygon uses x1, y1, x2, y2, x3, y3 and so on to specify each corner.

66 *People may be visiting your site via a slow link so remember to keep imagemaps as small as possible...* 99

HREF: The URL to load when this area is clicked. If you want an area to jump nowhere, use NOHREF. This is normally used for the default, or could be used to stop a part of the image accepting the default action.

ALT: Some browsers will display this text when the image isn't loaded. People may be visiting your site via a slow link so remember to keep imagemaps as small as possible and provide text alternatives wherever you can.

TARGET: The frame or window in which to load the new URL. If you're using an imagemap in a menu bar you'd use this to load the document into the main window.

Apart from TARGET, all of these attributes are compulsory in the latest HTML specification.

JAVASCRIPT

There isn't enough space for a detailed coverage of JavaScript here, just enough to explain the usage in this example. HTML supports "events" for objects. Two of the events for a link are onmouseover and onmouseout, the first occurring when you move the mouse pointer over the object and the second when you move the mouse away again. We use the same JavaScript command for both; window.status='text' sets the contents of the status bar, where you would normally see the URL of the link, to "text". To clear the status line when the mouse moves off the link, onmouseout sets window.status to an empty string.

A MORE USEFUL EXAMPLE

Let's look at a real world application of imagemaps that also illustrates another use for HTML. In addition to online web pages, HTML is good for program documentation with its inline images and hypertext links. Here we see how a client side imagemap can make documentation even easier to use. The image is included in the normal way, with the addition of an ISMAP attribute; the MAP tag contains all the real work. The full version is on the CD, but the edited highlights are shown below.

```
<MAP NAME="optionsmisc.map">
```

First we give it a name.

```
<AREA SHAPE="RECT" COORDS="150,21,249,42" HREF="#display"
ALT="Display" onmouseover="window.status='Display options';return
true" onmouseout="window.status='';return true">
```

A standard rectangular shape, covering the "Display" tab of the image links to a part of the current page and also provides "help" text using JavaScript (see boxout).

```
<AREA SHAPE="RECT" COORDS="177,68,371,93" HREF="#confirmdisconnect"
ALT="Confirm" onmouseover="window.status='Ask for confirmation before
disconnecting';return true" onmouseout="window.status='';return true">
```

As for the tabs at the top of the window, each of the gadgets has an area defined to link to the relevant part of the documentation.

```
<AREA SHAPE="RECT" COORDS="154,59,551,128" HREF="#control"
ALT="Control" onmouseover="window.status='Various control
options';return true" onmouseout="window.status='';return true">
```

The browser reads the map data in the order it appears, stopping at the first match it finds. This means you may have a number of individual shapes and then a larger shape covering them all and the spaces in between. If you click on the smaller shape you get its link and if you click in a space you get the later link. This one covers the Control section of the window.

```
<AREA SHAPE="RECT" COORDS="7,300,183,318" HREF="" ALT="Save"
onmouseover="window.status='Save the settings and exit';return true"
onmouseout="window.status='';return true">
```

We have to cheat a little here. If you use NOHREF you can't use onmouseover (at least it doesn't work in AWeb or Netscape). By using an empty URL to achieve the same result of no action when clicking on the area, you can also display help text with onmouseover.

```
<AREA SHAPE="RECT" COORDS="9,28,125,46" HREF="info.html" ALT=""
onmouseover="window.status='blah';return true"
onmouseout="window.status='';return true">
```

The items on the left of the display would be documented on different pages so these items are linked to a separate page. You can label a point in a page with and jump to it with from the same page or from another page.

```
<AREA SHAPE="RECT" COORDS="6,23,126,291" HREF="main" ALT=""
onmouseover="window.status='blah';return true"
onmouseout="window.status='';return true">
```

The whole of the left side list window is linked back to the main page. As before, this appears after the individual items in the window and so acts as a default for this section.

```
<AREA SHAPE="DEFAULT" HREF="" ALT="Default"
onmouseover="window.status='Click on a gadget to read its
documentation';return true" onmouseout="window.status='';return true">
```

Finally we have a DEFAULT shape. This is used whenever the user selects any area not defined elsewhere. In this case it doesn't link anywhere – default areas often don't – but it does display help information.

```
<IMG SRC="optionsmisc.gif" WIDTH="561" HEIGHT="338" ALT="Image map"
USEMAP="#optionsmisc.map" BORDER=0>
```

Now the map data has been set up, all that's left is to display the image using a normal tag with the additional USEMAP attribute.



MailBag

Send your letters to: **Letters To The Editor**
• Amiga Format • 30 Monmouth Street • Bath •
Somerset • BA1 2BW or email: amformat@futurenet.co.uk
 – putting 'Mailbag' in the subject line.

THE PRICE IS RIGHT?

I'm sure that I'm not the only AF reader who wouldn't object to a price rise. The people who moan about the price going up should consider that if Future were to decide that AF was no longer profitable, it would fold.

I would personally much rather pay more than pay nothing. Besides since CU folded I (and all the other Amiga owners that I know) have had the £6 I used to spend on it burning a hole in my pocket anyway.

*John Monks
via email*

Well, we've certainly had a few floppy issue buyers complaining that the price rise for them has been quite steep (the floppy price is now the same as the CD at £5.99), but as we've explained, the floppy issue actually costs us more money to produce than the CD one does. As always, subscription is the answer. Even if you were still paying £4.50 for the floppy issue, the price of £29.95 for twelve issues is still a significant saving.

HTML PEDANT

I'm writing in relation to the HTML tutorial in AF121 (March 1999) relating to tables. In that article, it was stated that: "<TR> and <TD> are somewhat unusual in that they don't need corresponding </TR> and </TD> tags. <TD> is assumed closed when the next <TD> or <TR> is found. <TR> is closed



SPARE US

- Long letters with loads of points.
- Complaints that AFCDFind and AFCDView don't work without any info as to why.
- Your missives on why company X should port their latest PSX/PC title to the Amiga.
- Letters asking for Richard's job.
- Technical questions which should be addressed to Workbench.

SEND US

- What you want to see in OS3.5.
- Whether you'll pay a deposit for one of phase 5's new accelerators.
- Your ideas for the shape of the Amiga's future.
- General questions you want answered (not technical ones – that's what Workbench is for!).

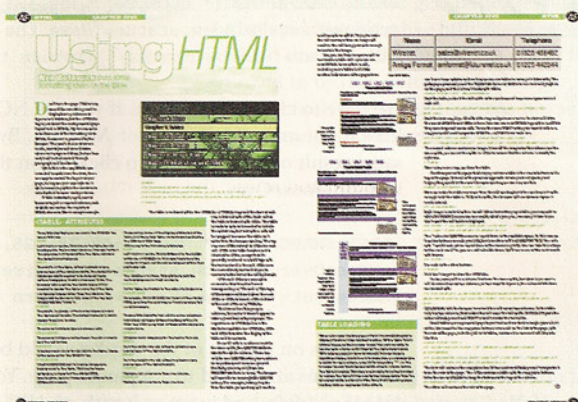
at the next <TR> or </TABLE>". I'd like to point out that this isn't strictly true. Under HTML 4 specifications, both the </TD> and </TR> tags are required. This may seem pedantic, but

although Amiga browsers may display tables without the closing tags, Netscape browsers on other platforms are notoriously fussy about table layout and won't display tables if the closing tags aren't in place.

If you're designing web pages that you know will be used only by Amiga browsers, then by all means leave off the </TD> and </TR> tags, but if designing for the outside world, or if you want as large an audience as possible, then it's prudent to add the closing tags – if you don't, you'll lose a large potential audience.

Also, don't assume that just because you're designing a web page relating to the Amiga it'll only be read by Amiga browsers. Many people, including myself, get Internet access on PCs from work or university, so non-Amiga browsers may read your page.

*Rajnish Bhaskar
via email*



We make our tutorials as accurate as possible, but any corrections or extra tips for readers are always appreciated – thanks, Rajnish!

Sabrina Online by Eric W. Schwartz ©1998

"Yes Virginia, there is Quake for Amiga."



Check out Sabrina Online at <http://www.coach.net/people/eric/>

Alternative title: "Not a complaint, just an observation."

ROUND 'EM UP

As a regular or occasional feature for the magazine, I think round-up type reviews would be a worthwhile addition.

I would find the options for adding a graphics card to an A1200 useful too – as far as I can tell, these are Atéo bus, Pixel 64, phase 5 PPC, BVision, ZIII or Picasso/CyberVision64. Possible future options would be interesting, such as the BoXeR and what graphics card options that will have. Smaller round-ups on scandoublers/flicker fixers and IDE interfaces would make me subscribe right away!

Finally, a small gripe about the otherwise good cover CD: the *Napalm* demo complains about a lack of memory on my 10Mb A1200, and it would have been good to have had the hardware requirements printed in the magazine.

Dan Pidcock
via email

Round-ups are very nice to do, but also time-consuming and take up a lot of space in our office. Even so, we'll endeavour to do more of them. You're quite right about *Napalm*'s requirements – we were under the impression that since the game's been talked about for quite some time, and the fact that it needs 16Mb RAM was quite well-known, we wouldn't need to repeat it. However, you're still right. Sorry!

Napalm needs a top spec machine to run at its best, as you probably already know.



Miami, Voyager, the phone line, everything, until I signed up with Free4All as well and found the joy of instant access every time.

The problem is, I'm stuck with Freeserve because of the amount of work I've put into setting up and publicising the websites. Regrettably, it seems Freeserve won't allow you to ftp into your webspace from other ISPs.

I'm not a happy bunny – it's not free if you waste hundreds of 5ps getting nowhere.

Jonathan Hayles
Hayes

You're not the only one to write to us about Freeserve's poor service – we've had a number of complaints. I'd say you get what you pay for, but Free4all certainly seems to be very popular among Amiga users, perhaps

because they offer specific Amiga technical support. Still, it's worth bearing in mind that Freeserve is several times bigger.

GAME TUTORIAL

Why don't you fatten AF up with a tutorial section, maybe one dedicated to trying to improve the Reader Games?

I mean, people can program, draw, make music, etc, but you haven't told them how to put this all together into a wonderful game. You keep saying that gameplay is the most important part of a computer game.

In this tutorial series, one month you might show us how to do an effective control system, the next month how to make good "interactive" sound and music, the next month how to reward the player.

It's no good working laboriously through 100 levels, just to have a boring screen with "Congratulations!" written on it. Just a thought.

David Thomsen
Wanganui, New Zealand

It's a good thought, and something we'll be addressing, but we can't fatten the mag that

Snippets

I seem to remember in a previous issue one of your readers wanted a program that could decode morse code into text. Well, I've written a program that is able to do this and, along with its source code, it's available from my website: http://members.xoom.com/Mr_Tickle/index.html (and yes, the two underscores are correct).

Peter Gordon
via email

I have a suggestion to make about your scoring system. Could you please go back to the old methods of scoring instead of those plus/minus points? You could replace the spots with stars to make it look a little more modern.

Danny Shephard
via email

I'd like to ask why you want stars instead of spots and why you want the old scoring system back since you give no reasons. We're even thinking of getting rid of scores entirely in the future, so write in and let us know what you think about that.

way. As I've said before, the only way to even keep the magazine as fat as it is to make sure that there are enough advertisers advertising since there's a direct correlation between the number of adverts and the size of the magazine.

AFHTMLCD?

I was thinking that an HTML version of AF would be a great idea. Charge £5.99 and the all new *Amiga Format* CD-ROM Magazine will be the first CD mag from Future Publishing. You won't need AF in paper form any more and people would have to upgrade their computers in order to view the CD mag.

It would be much better than the paper form and with a great HTML design it would be the future – who wants piles of magazines, wasting trees and destroying the ozone layer?

Continued overleaf →

YOU GET NOWT FOR FREE

A word of warning about Freeserve. Like many, I signed up thanks to the articles in *Amiga Format*, and now run three websites from Freeserve.

However, about 80% of calls fail to connect, and I don't mean you get the engaged tone – if only you did.

The phone is answered, the modem whirrs away, but all in vain. Yet another 5p down the drain and more endless hours of frustration as I try desperately to update a page on one of the websites (and I'm talking about seriously off-peak times as well, so it can't be because of demand!).

Naturally I blamed my Amiga,

Sabrina Online by Eric W. Schwartz ©1998



"You call THIS an anniversary?"

Check out Sabrina Online at <http://www.computerspeople.com/>

← The computer was meant to be the paperless office, but we seem to be wasting more paper than ever! You could also have an online magazine, like *Future Gamer*, although that would be restricted solely to those with Internet access. I would be happy to pay for a version of *AF* on CD only. It would also save on printing, colour, duplication and packaging costs.

The future of all magazines should lie in the CD-ROM HTML format, and a demo version cut down on the Internet so people will know what they're buying and the paperless office will be here.

This is my vision of the future and I can't wait for it to be implemented – let's be the first to do it and watch everyone else copy us again.

Kevin Sapwell
West Croydon

Other Future mags have been on CD-only – SFX springs to mind for a start – but they've never proved too popular and I must say that the Amiga is probably one of the worst computers to do it for – how would you read it on the train, or under your desk at work?

It's okay for the PC or Mac because there are laptops versions of those machines that could be used at a pinch, but it wouldn't be ideal for our platform.

AMIGA LOGO TO GO?

Re: the Amiga logo. The Amiga tick is the Amiga and really demonstrates the AGA capabilities of the Amiga and should stay. But isn't the boing ball even older and didn't it cause a real stir in the computer world all those years ago?

However, you've answered your own question by showing the tick and ball on the April's Mailbag pages. It looks

good and I think we should adopt that configuration as the official Amiga logo. It looks great – better than a half eaten apple or a wavy window.

So how about one of your clever people producing a nice animated .gif of the tick and rotating ball? If you do, why not put it on *AF*'s website for us lesser mortals to nick and use on our own websites? Size? The size in the mag looks about right. Go on, do it anyway.

Jim Buckley
via email

Remember that this is only the logo for the current Amiga range – the new Amiga will probably have a completely different one. As for the tick demonstrating AGA, I'm not so sure. The tick logo was used on the earliest Amiga materials and may even pre-date the boing ball.

NAPALM HELP

This is very urgent because it concerns *Napalm*. I got this by pre-ordering it, and it's amazing. However, I had to write a

```
run >NIL: No_Happy
C:SetPatch QUIET
c:newWPA8 QUIET
RUN <>NIL: C:copymemquicker QUIET
C:WFV >NIL:
RUN <>NIL: C:LowFrag
C:Version >NIL:
C:AddBuffers >NIL: DF0: 20
FailAt 21
c:makedir RAM:T RAM:Clipboards
makedir ram:env
assign env: ram:env
Resident >NIL: C:Assign PURE
Resident >NIL: C:Execute PURE
BindDrivers
C:Mount >NIL: DEVS:DOSDrivers/~(#{.info)
IF EXISTS DEVS:Monitors
  IF EXISTS DEVS:Monitors/VGAOnly
    DEVS:Monitors/VGAOnly
  EndIF
```

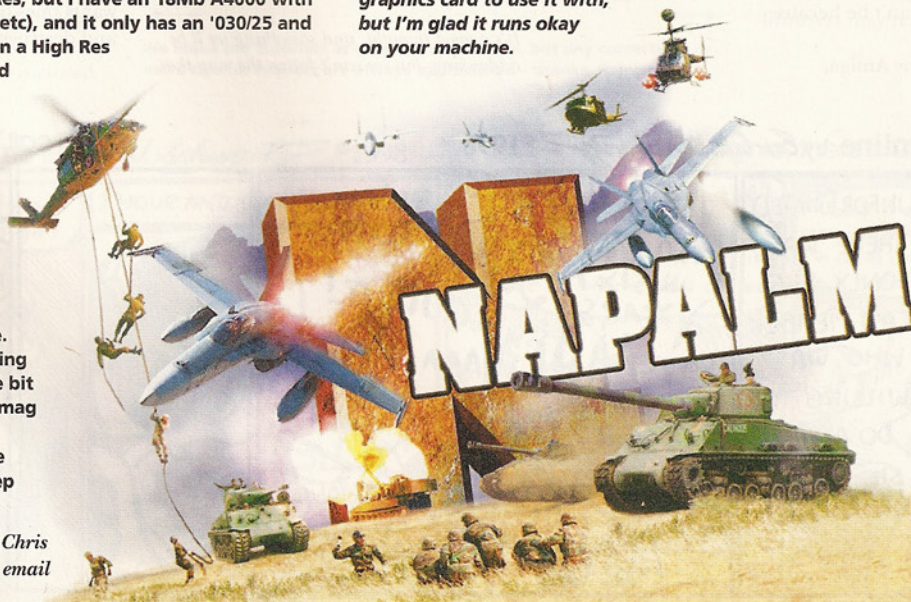
Hope this helps people. You made a serious mistake in your review as you said it couldn't work well on anything less than an '030/50 on Low Res, but I have an 18Mb A4000 with a PicassoIV (and Zip, CD, etc), and it only has an '030/25 and *Napalm* runs brilliantly on a High Res Picasso screen. I also tried it on a High Res screen (not Picasso), and okay, it was a little slow, but it ran really fast on Low Res. Saying that it won't work on lower than an '030/50 might stop people from buying *Napalm* and they'll miss out on a very good game. Might be worth mentioning this as well. Oh, last little bit – I've been reading your mag since it was *ST/Amiga Format*. I think I still have the 6th issue of that! Keep up the good work.

Chris
via email

script to be executed instead of my startup-sequence if I ran *Napalm* because the included *Napalm.Boot* didn't work. Here is the script that I used:

```
C>List >NIL: DEVS:Monitors/~(#{.info|VGAOnly)
TO T:M LFORMAT
"DEVS:Monitors/%s"
Execute T:M
C>Delete >NIL: T:M
EndIF
Resident Execute REMOVE
Resident Assign REMOVE
system:wbstartup/noclick quiet
cd Games:napalm/
assign napalm: ""
assign napalm: cd0: add
assign exec: exec
assign missions: missions
assign fonts: fonts
assign libs: libs add
assign store: store
assign setup: setup
assign units: units
execute napalm
```

I'm not sure saying that you should run in Low Res on an '030 was a serious mistake as most people won't have a graphics card to use it with, but I'm glad it runs okay on your machine.



CD WOES

Having recently invested in a CD-ROM drive, I now find difficulty in using it and find there are messages that I don't understand and references to software that mean little to me.

One of the best things you ever produced was *AF9, Format Special*, which was a guide to the mysteries of the Amiga – 'A1200 secrets revealed'. You might consider a similar issue now, or if that's not possible, maybe a series of articles on CD-ROMs, etc, – not technically what they do, but what you need to know to make use of them.

Many articles assume people understand what may be simple terms like 'patches' or references to 'PP', which some of us may find gobbledigook!

Ronald J. Wylie
Kirkcaldy

If you send a letter to Workbench that actually explains the problem you're having, we may be able to help you.

UNIDENTIFIED FILING OBJECT?

In reply to the letter 'Back To School' in AF121 from Paul Wood, I'd like to thank all of the people who have attempted to get Amigas into the education system.

I'm the co-founder of a software project team called 'Amorphous', which is a member of a network of strategic alliances called UFOAD (United Federation of Amiga Developers). One of the current tasks of UFOAD is to introduce as many Amigas into the education system as possible. I can tell everybody in the Amiga community that Amorphous will be fully supporting UFOAD in this task. We aim to introduce a new character called Cosmo, and we hope to make Cosmo the educational mascot for the Amiga.

Our title will be used by a school in Liverpool (New Heys) to ensure that all activities are effective. It will come with 31 activities, along with a Dizzy-style cartoon adventure, database program, a demo which introduces the user to all of the characters and more. The game will be aimed towards all ages and we hope to have it priced at £14.99.

We also hope to persuade Amiga Inc. to launch new Amiga bundles. One of them will be a basic A1200 bundle, aimed at young children. Together with the help of the Amiga community, I'm sure that it'll be easy for the Amiga to capture the market of Vtech machines.

I'd just like to thank all those who have helped with Amorphous, including Trogladite Software, Maxwell Turpin, Hillary Lewis and Martin Sherwood.

More information about Amorphous can be found at <http://www.trogsoft.freemove.co.uk/amor.htm>

Leon Brown
via email

without a printed manual. Where do these people get their prices from?

The PC and the Mac have some excellent commercial CAD programs at around a third of the cost. This raises the question of the Amiga's viability in any future serious software market.

John Read
Greece

Well, we did have X-CAD 2000 and 3000, but since no-one wanted them the developer shut down.

DRAWING A BLANK

I've had my Amiga for many years and have expanded it to meet the growing requirements over the years. I'm now in need of a structured drawing package. I came across a demo many years ago for Lazarus Engineering's *Design Works*. Is this software still available or is there a similar program as I seem to have drawn a blank?

Mr. B. Skinner
Norwich

Yes it's still available, although it's not very good. I think Epic Marketing may have a few copies of it. Draw Studio is far better, although it's probably not being developed any longer because of the lack of response from users. We had a demo of it on our CD some time ago - go to AFCD32 and look in the +System+/tools drawer.

A COUPLE OF POINTS

Just a couple of points. First, think carefully: if the new Amiga can emulate PCs and Macs so easily, what's to stop people just using them as a cheap alternative to a PC? People might not write PC software if they can write PC software and sell to a much larger market. Secondly, I noticed that when *Sensible Soccer* was released on the PlayStation it was compared to more modern soccer games and given low ratings. I just hope you won't be as biased as this. Obviously a game, whether released 10 years ago, today, or in 10 years' time, is still the same game, and should get the same ratings whenever it was released.

For example, if *Rainbow Islands* was released today on some new console, it should still get the same ratings as it did all those years ago.

David Thomsen
New Zealand

You're quite right. Solid PC emulation might be as much of a millstone as a boon, but as long as there are hundreds of millions of new Amiga users, do we really care that they're using MS products to start with? Surely they'll see the light when they start using really good Amiga software. On your other



Should classic games like *Rainbow Islands* be compared to state of the art modern games?

point, I can agree to a certain extent in that it's the gameplay that really counts, not the look of the game, but apparently Sensi's still a bit of a dog on the PlayStation anyway.

Likewise, if there was an updated *Rainbow Islands* and it offered the same 2D platform action, it could be compared, except for the fact that people might feel a bit gipped if they only got about a meg's worth of game for 40 quid. The fact is that these days people really do expect nice intros and 3D graphics throughout the game, so comparing the two is somewhat unrealistic.

Finally, this month's AFCD features a cracking tune by Apex, created entirely on Amigas. Unfortunately, we lost your letter, so please write in again for the next issue! Meanwhile, have a listen - the song can be found on AFCD40.

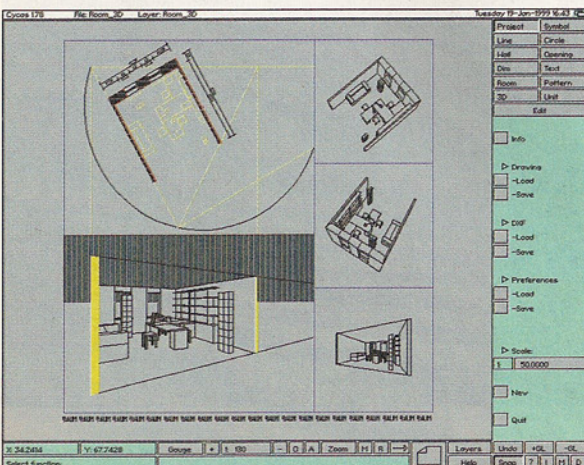
AF

WHY, YOU CAD!

We seem to be pretty well covered in all areas of software for the Amiga except one, and that's for CAD, or more specifically, architectural design and drawing programs. As such, I was more than delighted to see your inclusion of the *Cycas* demo in AF121. As you so rightly pointed out, the Amiga-styled interface was a bit of a letdown, but that's something one could live with.

What I found so disappointing was the general awkwardness of the whole program and the rather poor content of the demo. I won't go into detail but suffice to say that I thought it'd be worth around £30. Shock and horror when I saw that £100 was being asked for the full registered package, and that's

Cycas is a good CAD program, but it does have limitations. Let us know if you think other serious software on the Amiga is overpriced.



STOLEN MUSIC

I was unlucky enough to have my music collection stolen a few years ago and have been slowly rebuilding it ever since. I visited the Virgin and HMV megastores on Oxford Street this week trying to find some CDs and was disheartened to find that the ones I wanted are now deleted from their catalogues and are therefore unavailable. I then had an idea.

This artist is popular in the USA and AF ran a feature on online shopping recently. Hmm. A quick visit to CDNow and I've ordered everything I was after. Thanks for the article, Ben.

Oovis
via email

Hey, no problem. I'm sure you've found out by now that CDNow aren't just good for American artists either, and I still regularly buy quite a lot of my music from there.



CDNow is just one of many superb online CD stores.

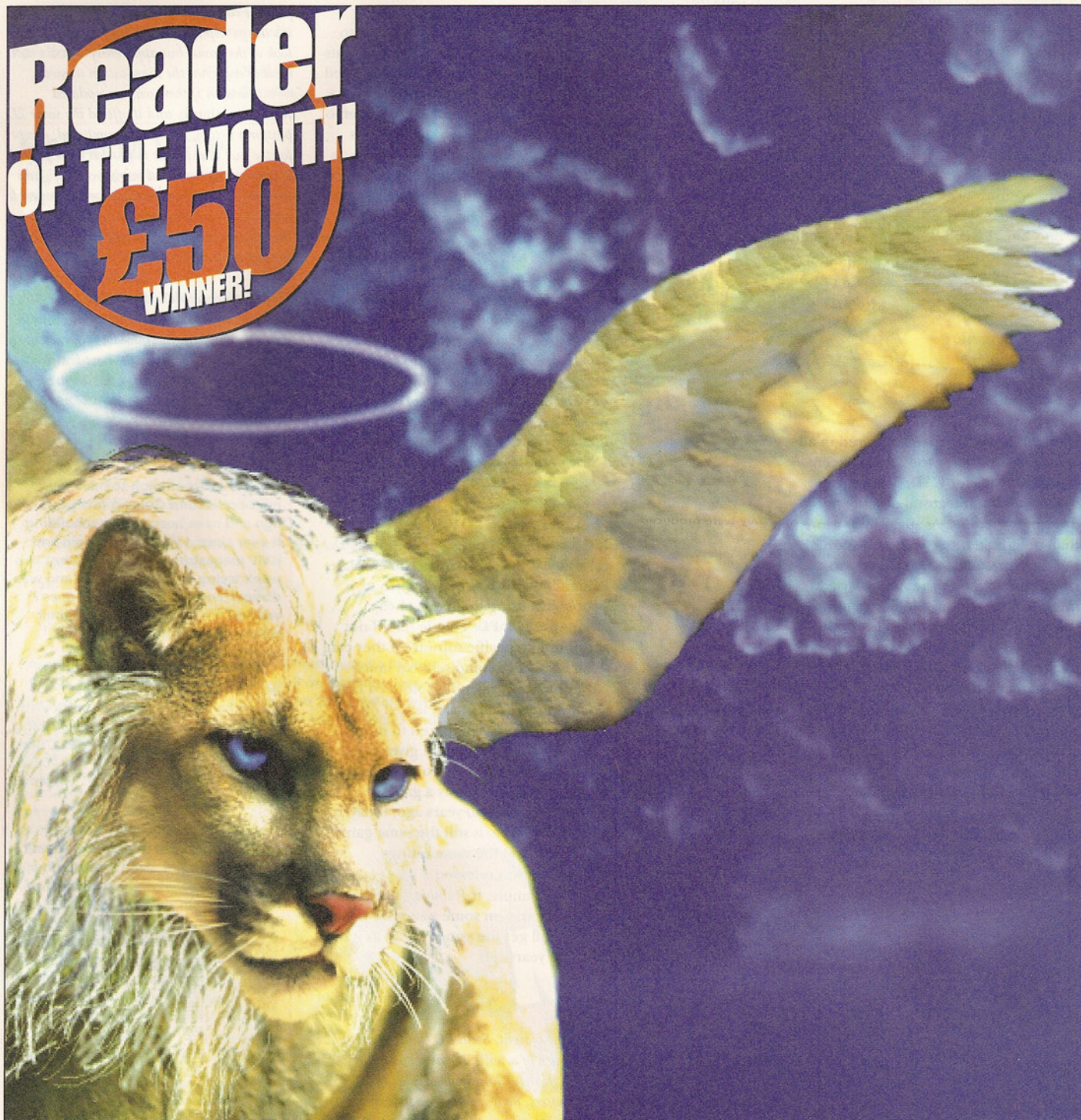
The Gallery



AFCD40:-ReaderStuff-/Gallery-

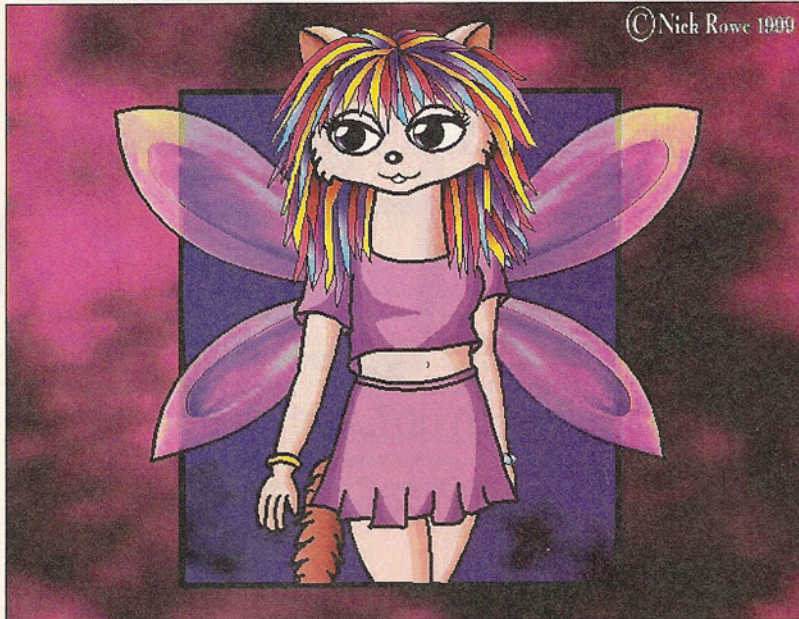
Never mind the Pollocks – Ben Vost finds some very fine Amiga artwork indeed.

**Reader
OF THE MONTH
£50
WINNER!**



Angelon by John Cooper

John says that this image took him a single night to produce with the aid of lots of coffee and his A4000TX. He was inspired by a close friend of his who came up with the concept of the angelion, so he sat down and created it in Art Effect 2.6. This entry truly deserves the prize money this month.



Curiosities and Wings by Nick Rowe

© Nick Rowe 1999

Nick's hand-drawn, umm, 'thing' is very nice, and his render is suitably baroque - not a trace of a chequered floor or chrome surface, so well done!



Planewing by Mark Moran

Again, Mark doesn't send us a readme file to accompany his ragtag mix of pictures and animations, so we can't say what they were produced with, but his plane wing image does at least take a slightly different view of a plane than the ones we normally get in The Gallery.



Abstractc and Mother Nature 2 by Graham Chestney

Graham doesn't mention *TVPaint*, but the bubbles in *Abstractc* look remarkably like those produced by that great program. His *Mother Nature 2* image seems to use the woman from the Newtek demo-reel 1, plus a *VistaPro* rendered image composited in *Photogenics* with some of its filters added.



CONTRIBUTIONS

If you'd like to enter your work for The Gallery in *Amiga Format*, read the Reader Submission file on the CD or simply send your work to this address: The Gallery, Amiga Format, 30 Monmouth Street, Bath, BA1 2BW. Please make sure you include the reader warrant from the CD pages in this mag.

Serious disk

AMIGA FORMAT



Want to spice your Workbench up? Add more flexibility to your requestors? **Errol Madoo** presents AF's indispensable collection of Workbench enhancements.

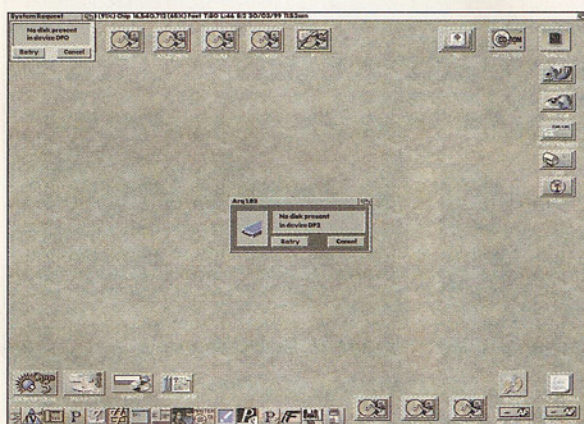
Workbench Add-ons

ARQ

ARQ is perhaps more of a cosmetic improvement than an essential "can't live without" Workbench enhancement, but don't let this fool you – ARQ has loads of nifty little features that will soon become a much-used part of your Workbench sessions. ARQ's main aim in life is to enhance the look and feel of your Workbench requestors. Once ARQ is running, which is simply a matter of copying the

ARQ icon to your WBSTARTUP drawer and rebooting, Workbench's boring old requestors are replaced with the much improved ARQ requestors.

Your requestor has now sprung to life and has an animated picture of a floppy drive with a disk sliding in...



Which requestor do you prefer? Pressing "ESC" in the ARQ requestor cancels and "return" retries.

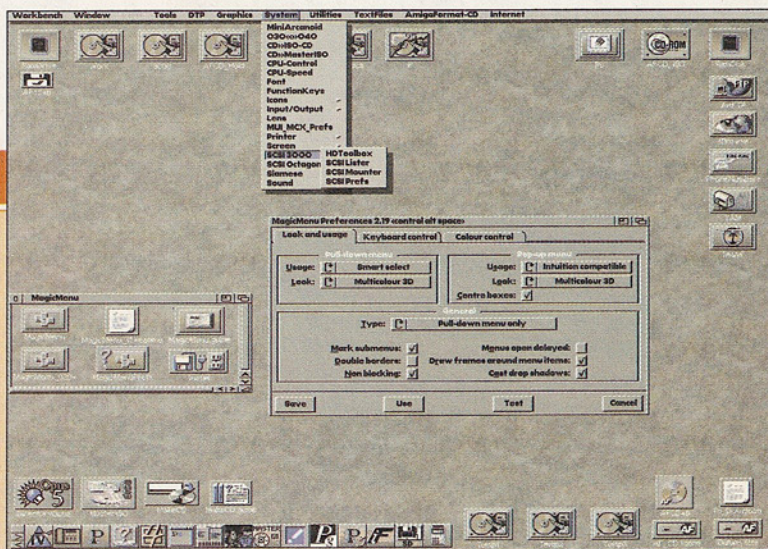
MAGICMENU

Bored with Workbench's black on white flat-looking menus? Sick of having to go right to the top of your Workbench to select a menu item? If you can answer yes to either of these, you should really give *MagicMenu* a test drive.

In its basic form, *MagicMenu* replaces the standard Workbench menus with much more flexible and better looking 3D menus. If the ability to have your menus pop-up anywhere on the screen with the simple click of a mouse button, and the ability select your menu's colour scheme, is something that appeals to you, *MagicMenu* is the answer.

MagicMenu at work. Look at those groovy grey menus complete with sexy drop shadows. The *MagicMenu* preferences allow you to tweak settings to your heart's content.

The first difference you'll notice is that requestors no longer pop up in the top left of your Workbench screen; they now pop up in the centre, which effectively makes them easier to get to. Then the big difference – your requestors are now animated! No longer do you have to look at a little window that simply states that you have no disk in df0:. Your requestor has now sprung to life and has an animated picture of a floppy drive with a disk sliding in and out of it.



Keyboard control of ARQ is easy and several keyboard shortcuts are available to make your life easy. For example, pressing the "ESC" key will cancel the current requestor which, you must agree, is much easier to use than the default Workbench Left-Amiga-B combination.

Should your requestors come up with more than two buttons to press, ARQ also allows you to use function keys to select buttons. Pressing F1 will activate the left hand button in the requestor, F2 will activate the button to the right of it and so on.

CYCLETOMENU

CycleToMenu is a simple commodity that turns the standard Workbench cycle gadgets into popup menus, making the selection of nested options much faster and more efficient. Now you no longer need to step one by one through seemingly endless options – just click on the first option and hey presto! A list with all the available options pops up ready for you to select your choice.

Installation is easy – just copy *CycleToMenu* to your WBStartup drawer or, if this is too hard for you, an installation script is also provided.

MULTICX2

We all have loads of stuff in our WBStartup drawer, don't we? One program to do this, another to do that, one to blank your screen and perhaps even another one to do something else. This is all very well but having so many programs running isn't very efficient, it slows your system down and probably wastes loads of your system's resources into the bargain. One possible solution to this problem would be to use *MultiCX*.

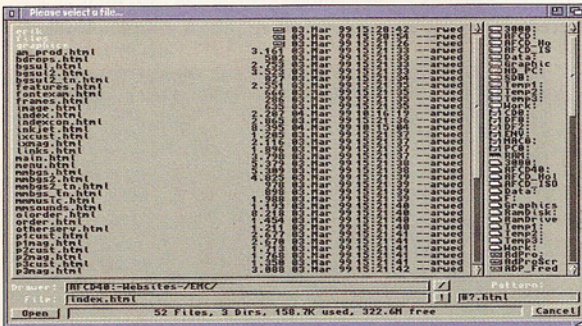
MultiCX can do this, that, blank your screen and lots of something else! For starters, if I told you that *MultiCX* has screen blankers, could accelerate your mouse and cycle your screens, you'd probably be interested. Then if I told you that it could also automatically activate your last used window, control window movement and blank your mouse pointer, you'd be a little more interested.

Finally, if I told you that it could close/zoom windows, flush your Amiga's memory and display a menu of all current public screens, allowing you to quickly jump to them, you should only want to do one thing – install it!

MAGIC FILE REQUESTER

Without realising it, you'll probably find that file requestors are probably the most used part of the Amiga operating system. Every time you load or save a file, up pops a file requestor. Go on, give it a try – load your favourite paint program, draw a few lines on the screen and then select "Save" from the file menu (sometimes called project menu) and see what happens. If everything has gone to plan, a file requestor should be staring you in the face. Now that you have the requestor open, save your picture file in RAM: and call it "fred.iff".

Now that Fred.iff is residing in RAM: draw a few more lines on the picture (or circles if you're feeling adventurous) and select "Save" again. When the requestor pops up, try saving your new picture as "fred.iff" again. Oops! It already exists, doesn't it? Let's say that you want to keep your original "fred.iff" picture. You could cancel the requestor and select "Save As" from the menu, but wouldn't it be easier to open a menu and select "File/Rename" to rename your original "fred.iff" to "fred_old.iff" and then save your new picture as "fred.iff"?



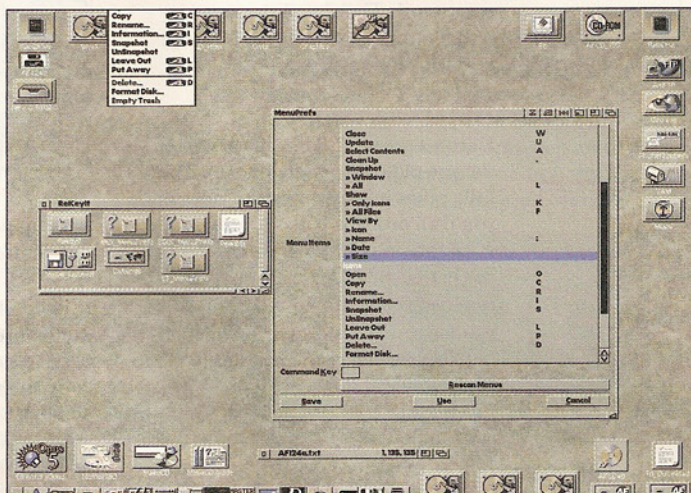
File requestors may be restricting and a little boring but not with *Magic File Requestor*.

If scanty menus appear when you have your file requestor open and you click your right mouse button, you're not using *Magic File Requester (MFR)*, are you?

It doesn't stop there. As well as the ability to create new directories, *MFR* adds a whole host of other features to your file requestors, including such things as search for files, copy, rename, delete, sorting and so on. As if this wasn't enough, *MFR* also allows you to change the requestor's font and even customise the layout and position of the requestor. Let *MFR* pop up on a screen near you soon and you won't regret it.

REKEYIT

This is a simple utility that allows you to change the keyboard shortcuts for the items in your Workbench menus, even allowing you to add shortcuts to the items in your Workbench's "Tools" menu. If you ever wanted to format a floppy with a single keystroke, you can now. Set up couldn't be easier too – all you have to do is double click on the install icon, wait a few seconds and then run the new MenuPrefs icon in your prefs drawer.



Makes your life a whole lot easier by allowing yourself to add new keyboard shortcuts to your menus.

POWERSNAP

This is a really useful little utility, written by Nico Francis, perhaps more famous for his *Powerpacker* series of programs. It allows you to use the mouse to mark characters anywhere on the screen and paste them somewhere else; for example, into the CLI, text documents or even into string gadgets.

SwazInfo (left) or not *SwazInfo* (right). *SwazInfo* adds lots of features to the Icon Information window.

Let's say that you found *Powersnap* so useful that you decided to write Nico a letter to thank him. You find his address in the readme file but need to transfer it to the top of your *Wordworth* document. You could memorise it line by line and then type it in, or you could hit your left Amiga key, select the text block with your left mouse button, flick over to your *Wordworth* document, hit the Left Amiga key again and paste it into place with your right mouse button. I know which one makes more sense to me.

WBSTARTUP+V2.8

If you've ever had conflicts between programs that are run from your WBStartup drawer, you'll know what a hassle it can be to disable these programs one by one while trying to establish which ones are conflicting.

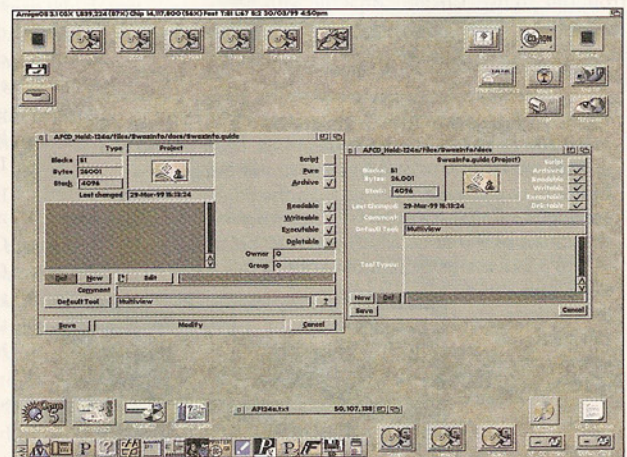
Once installed, *WBStartup+* creates two drawers within your WBStartup directory. *WBStartup (Enabled)* is where all the programs that you want to run are stored, while *WBStartup (Disabled)* is where all the programs that you don't want to run are stored.

The "disabled" drawer is also handy for storing the readme files associated with the startup programs. Anyway, apart from tidying up your WBStartup drawer, *WBStartup+* allows you to enable or disable individual programs via hotkeys, or, should you wish, disable all programs.

SWAZINFO

SwazInfo replaces Workbench's icon information window, the one that pops up when you single click on an icon and select "Information" from the Workbench "Icons" menu. The new *SwazInfo* window retains all the previous information and options but adds many improvements and new features. The best of these is the App window where you can simply drag and drop an icon from your Workbench to replace the icon image of the currently selected icon. It should be noted that *SwazInfo* doesn't work correctly with *NewIcons*.

If your system's icons need sorting, you couldn't go far wrong by giving *SwazInfo* a whirl.



Games disk



**AMIGA
FORMAT**

Bored with waiting for that file to copy or download? You need **Errol Madoo's** guide to the best multitasking Workbench games around.

Multitasking Games

Games with flashy multi-coloured graphics are all well and good but they aren't normally multitasking. What happens if your Amiga is busy doing something and you fancy a game of something while you're waiting? Here's *Amiga Format's* indispensable step by step collection of multitasking Workbench games.

The game is fairly easy to learn and offers enough of a challenge without being too hard and frustrating...

521

On first appearance 521 looks really easy, but after a few seconds you'll soon realise that it's a deceptively difficult game to play. On starting the game you're presented with the main menu where you can choose which level to play – at this stage I'd recommend that you swallow your pride and start with easy peasy. You're then presented with a 3x3 grid filled with numbers ranging from one to five. Clicking on a tile with

the left mouse button will increment all tiles in that tile's row and column up by one. Any tile incremented past 5 will return to 1. The aim of the game is simple – all you need to do is fill the grid with 1's. Easy, eh?

DELUXE POKER

Here's a great Workbench version of the age-old card game of Poker. There's little point in explaining the rules since you'll all probably know already. *Deluxe Poker* follows all the standard rules so the better your hand the more you'll win. Get yourself a Royal Flush and you'll win fifty times your original stake!

Deluxe Poker uses the MUI interface so if you haven't installed it yet and you like playing Poker, perhaps now is the time to do so.

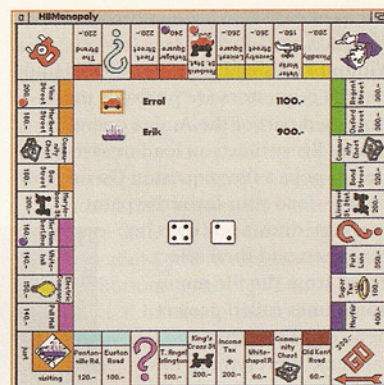
HBMONOPOLY

Perhaps one of the most popular board games of all time, *Monopoly* springs to life on your Workbench. The aim of the game is simple – you just buy, rent or sell properties so profitably that you force your opponents into bankruptcy.

Starting from "Go", players move round the board in a clockwise direction, according to the throw of the dice. The object of owning property is to collect rent from opponents, which is greatly increased by the erection of houses and hotels. During the game's progression, players may land on Community Chest and Chance squares, where they collect a card and then follow that card's instructions.

HBMonopoly supports gameplay

Hexagon and its preference window.



Hahaha! Erik has been sent to jail.

with up to eight players, it runs in one (and multiple) full-colour Workbench windows, has sound effects for most key events and even has a log file so you can easily resolve any player disputes.

If you're a fan of *Monopoly* and have some friends with nothing better to do, you really should give this game a whirl. Perhaps the only downfall with *HBMonopoly* is that you can't cheat, so forget it if you're one of those despicable characters who "borrows" money from the bank when nobody is looking.

HEXAGONS

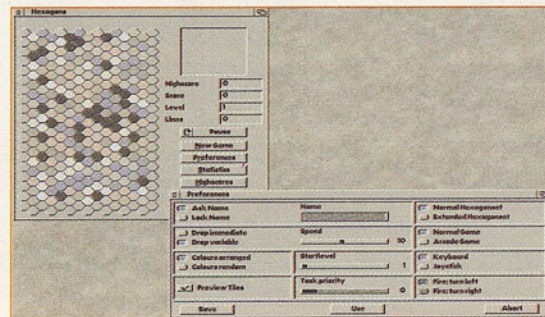
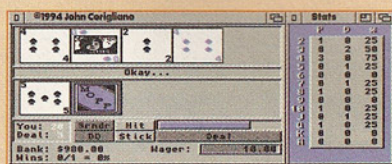
Hexagons is a variant of the classic *Tetris* game where you have to quickly place pieces into the best position to complete or fill the gaps in the bottom of your playing field. As the pieces are falling you have control of their left and right movement, along with their rotation. Once you've completely filled

BLACKJACK2

This is an Amiga Workbench version of the card game *Blackjack*, or *Pontoon* to us English folk. Most of you will already know how to play but the aim of the game is basically to score more points than the dealer, without scoring more than 21 points. Points are gained by adding up the values of the cards which you're dealt.

To make things more interesting, a bet is placed on each hand. Full instructions can be found in the author's readme file.

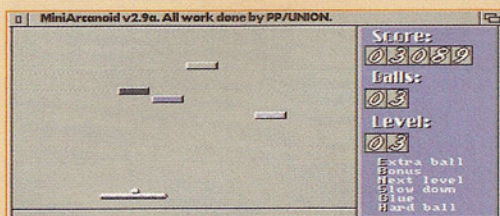
Ha! I beat the dealer.



MINIARCANOID

If you've never seen or played *Arcanoid*, you've probably just got a computer and have spent your life sleeping with your head out of the window. There have been countless clones and variations of this game and if you don't know why, stick your head back out the window. *Arcanoid* is quite simply one of the most addictive games ever devised. The aim is simple – just stop the ball from getting past you while trying to bounce the ball off your "bat" in order to destroy all the bricks above you.

As you destroy bricks, certain bonus letters drop down, giving you various features to make your life a little easier. If you manage to collect these letters, not forgetting to bounce the ball up the screen at the same time, you're awarded with such funky things as glue, slow downs and hardballs. If you have a few minutes spare, give *MiniArcanoid* a try, but be prepared to lose a few hours.

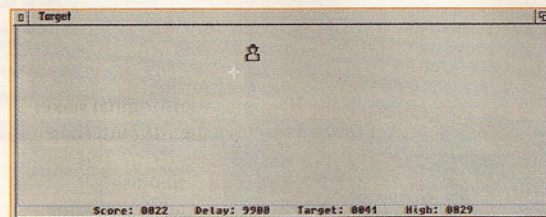


Just four bricks to go to get to level 4...

a line at the bottom of your playing field, the line will be automatically removed and the whole process starts again. The more lines you can get removed, the more points you gain. Sounds simple, doesn't it? If you're an experienced *Tetris* player you'll probably like this variation. If you're new to *Tetris*, this is one of the easiest routes to get the *Tetris* bug.

The game is controlled via the keyboard or a joystick. On the keyboard, the left cursor key moves the piece left, the right cursor key moves the piece right, the up cursor key rotates the piece clockwise and the down cursor key

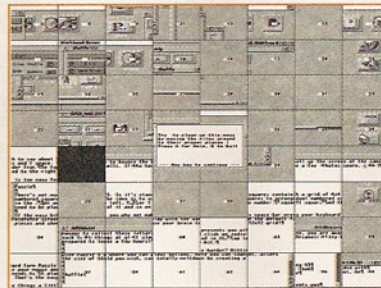
If you can beat this score then you're better than me!



rotates the piece anti-clockwise. One nice feature of this version of *Tetris* is that it has many preference options where you can control such things as the speed of the game, the task priority and even the level that you want to start with.

SHUFFLE

Based loosely on the *Puzzle* theme, *Shuffle* is a small game that makes a copy of your Workbench screen, splits it up in a number of pieces, cuts out one piece and then shuffles the other pieces by moving them around. Your task is simple – just put the pieces in order again by moving them around.



Messing up your WB is just a click away.

TARGET

If you're in need of sharpening your reflexes or need to give your left-mouse-button finger a good workout, *Target* could be your answer. On clicking on *Target*'s icon, a window opens up and little men (presumably baddies) start popping up, one at a time, all over the

place. Your aim (no pun intended) is simple – shoot the little men. This sounds easy, but try it for yourself and see how good you really are. I set the delay to its longest and still had a hard time getting a decent score.

WBRain

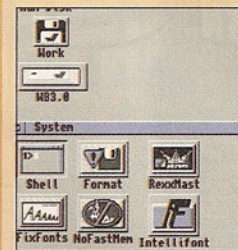
WBrain is a game in which you're given a randomly generated pattern which you must reproduce by choosing a correct order of moves. Moves are made by clicking on empty squares. The game is fairly easy to learn and offers enough of a challenge without being too hard and frustrating to complete.

WINTRIS_V1.21

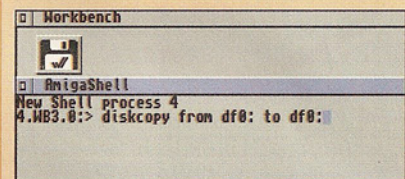
To round up the games disk this month, here's another *Tetris* variant with lots of neat features. It's great at multitasking so you can have a few games while you're backing up (you do backup on a regular basis, don't you?). It'll work on all Amigas using Workbench 2 or above, has its own preferences window and even has a saveable high score list.

BACKING UP YOUR COVERDISK

Copying your Coverdisk is really very simple. Just follow the stages below...

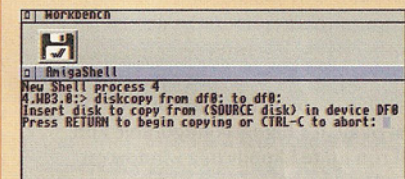


1 Boot up with your Workbench disk and find the Shell icon, in your system drawer. Double-click on this to go into the Shell.

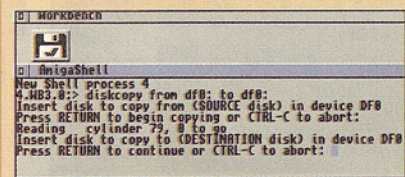


2 Type in the following line (with a zero, not the letter O), taking care to put the spaces in the correct places:

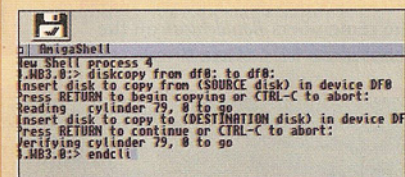
DISKCOPY FROM DF0: TO DF0:



3 When asked for the Source disk, insert your write-protected Coverdisk and press Return. All of the info on this disk will then be copied from the disk into memory.



4 Once your Amiga has read the info, it will ask for the Destination disk. Insert it and press Return. All information on this disk will be destroyed.



5 On an unexpanded machine, the Amiga may ask for the source disk again, because it copies in chunks. Finally, type `endcli` to close down the Shell.

DISK NOT WORKING?

We take every care to test the Coverdisk software, but Future Publishing cannot accept any responsibility for any damage occurring during its use. If your disk is faulty, send it back, with 2x26p stamps and an SAE to:

Amiga Format (insert name of disk)
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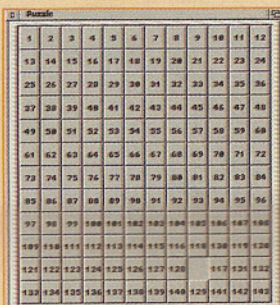
If there is a manufacturing error then the stamps will be returned with a replacement disk.

PUZZLE

There's not much to say about *Puzzle*, really. In its standard form, *Puzzle* presents you with a grid of 4x4 squares containing 15 numbered squares and one space. The idea is to use your mouse and click on individual numbered squares to arrange them in the right order from the top left.

Number 1 needs to be placed in the top left square and the number 2 square need to be placed to the right of it and so on. That's the easy bit.

If the easy bit is too easy for you, why not make things a little harder? Hitting your keyboard's space bar presents you with *Puzzle*'s preference screen where you can play with the various options. Here you can change the default font, alter the size of the pieces and, should you wish, cause your brain to totally melt down by creating a 12x12 grid...



Sure, the standard game is easy, but this version certainly isn't.

Cover disc

AMIGA FORMAT



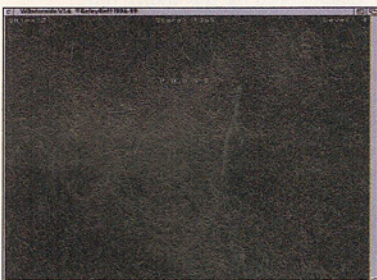
Can you really believe that this is our fortieth cover disc? Time really does fly... **Richard Drummond** tours the latest.

To tie in with this month's Games Disk theme, the ScreenPlay section on the CD is packed with dozens of OS-friendly games.

WBSTERIODS 1.6

-Screenplay-/Shareware/WBSteroids

The is a stylish conversion of that old vector graphics coin-op classic, *Asteroids*. The gameplay has been updated and so have the visuals, featuring colour, resizable graphics and animation. But best of all, it's highly configurable and will run quite happily in a window on your Workbench screen.



This is what games were like when I were a lad. 3D textured-mapped graphics? Bah!

DIAMOND CAVES II V1.4

-Screenplay-/Shareware/DiamondCaves

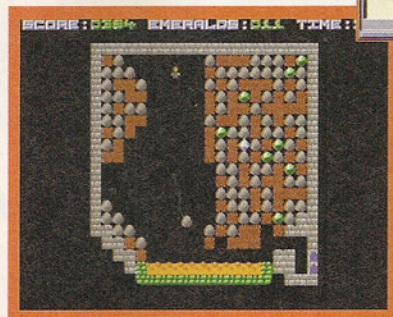
Who remembers *Boulderdash* on the Commodore 64? It was a simple yet

WHAT'S NEW

AFCD40 includes even more improvements. If you click on the **Ben_Speaks!** icon this month we hope you'll receive a pleasant surprise. The HTML pages have been significantly redesigned and are now much more colourful. The digests of the afb mailing list have also been converted to HTML to make browsing them easier.

Other changes include the updating of **AFCDFind** and **AFCDPrefs** to show the difference between keyword and filename searches for **AFCDFind**, and to recognise PDF files.

The new bright and sunny pages on **AFCD40**, just in time for summer.



fiendishly addictive game which has often been copied but seldom bettered.

Diamond Caves by Peter Elzner is an up-to-date Amiga Shareware

conversion with loads of new features. It multitasks happily and will run in the screenmode of your choice, even on RTG screens. The unregistered version of *Diamond Caves* features 50 levels and a MUJ-based level editor.

MANIAC BALL V1.5

-Screenplay-/Shareware/ManiacBall

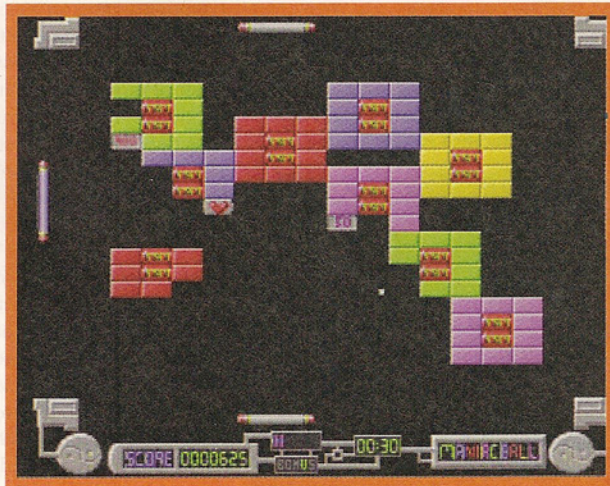
Maniac Ball is again a Shareware release

from Peter Elzner. It's a twist on yet another old classic, this time *Breakout*. The novelty is that you get to control four bats, not just one. It also fully supports RTG screens and includes a level editor.

Breakout: possibly the most cloned game ever.



Yet more nostalgia with this *Boulderdash* spin-off.



Your Stuff!

Reader OF THE MONTH

£50

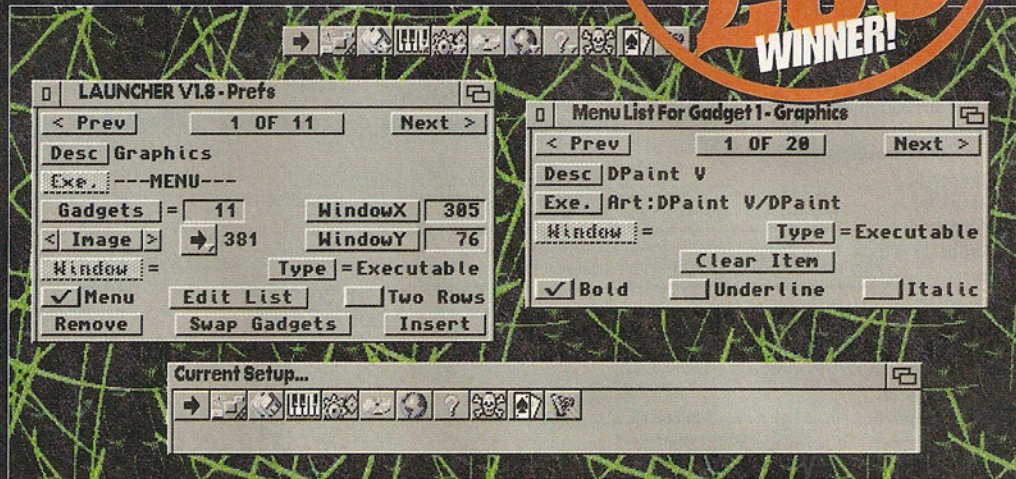
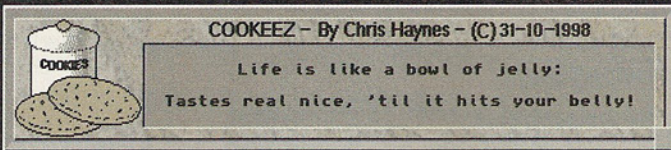
WINNER!

The Reader Stuff section of the CD is far too light again this month. We've only been able to include less than 10Mb of your contributions and this simply isn't good enough!

Having said that, the winner this month for the best contribution is Chris Haynes. His entry, or indeed entries, lack something in originality but he nevertheless wins the prize for the solid execution of his ideas.

Launcher 1.8 is a configurable button bank/menu tool for launching applications from the Workbench. Cookies is yet another widget for displaying fortunes at random, and last but not least, WBColony plays a nice Workbench puzzle game.

Launch your favourite apps and tools with a button and menu shortcut.

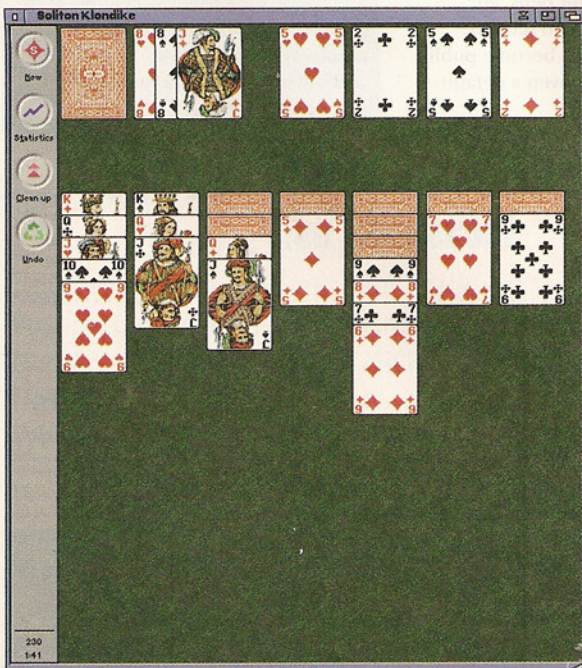


SOLITON 2.00

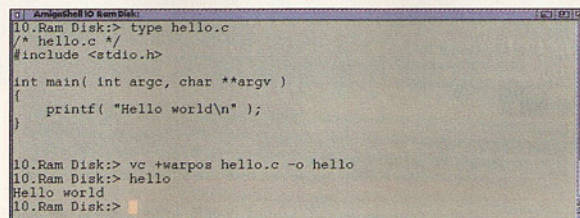
-Screenplay-/Shareware/Soliton

Kai Nickel's *Soliton* is perhaps the best-looking game of *Solitaire* you'll ever play. Or perhaps best-looking games, since it includes versions of *Klondike* (*Sevens* to us Brits) and *FreeCell*.

Both games employ *MUI* and the play area for each is realised with a specially written custom class; both feature customisable card sets and backgrounds, opaque card movements and many other options.



While away those lazy moments with a game of *Soliton*.



VBCC in action - shame about the rather dull example.

VBCC

-Seriously_Amiga-/Programming/C/vbcc

VBCC is a free, portable, retargetable ANSI C compiler. It will produce object code for a variety of processors, including the m68K, PPC and x86. There are three Amiga versions supplied - one to run on 68K machines, one to run under WarpOS and one for PowerUp. This new release features better optimisations, improved support libraries and the ability to generate either PowerUp or WarpOS executables.

THE BIG SQUEEZE

-Seriously_Amiga-/Archivers/xad

-Seriously_Amiga-/Archivers/xdms

The xadmaster.library is a shared library system which attempts to provide a common interface for the unpacking of the wide variety of different file and disk archive formats commonly in use. It's similar in concept to the *xpkmaster* system which functions only on data streams. Supported archive formats currently include *LZX*, *TAR*, and *DMS*.

The de facto standard for the compressing of Amiga floppy disks is *DMS* (the *Disk Masher*). Unfortunately, there have been no tools on other platforms for the handling of *DMS*

archives, which is a real pain for *UAE* users, for example. Enter *XDMS*, a Freeware, portable tool for the unpacking of *.dms* files.

Amiga, Linux i386/ELF and MS-DOS binaries have been provided.

SCREEN CHAMELEON

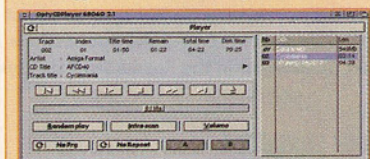
-Seriously_Amiga-/Shareware/WB/ModePro

ModePro is a powerful screenmode promotion and public screen manager utility. It lets you force all those user-unfriendly programs that open custom screens but don't allow you to configure the screenmode to open in the mode of your choice. It also permits you to define a list of public screens which your Amiga can then open and close as required. It's especially handy for

Continued overleaf →

AUDIO TRACKS

We have two Amiga-related sound tracks on *AFCD40* for your aural delectation. The first, by Apex, is called *Cyclemania* and was produced wholly on Amigas. The second, from the soundtrack to the forthcoming game *FUBAR*, is rather uninspiringly titled *Strategy Music 3* and is by Will Morton.



This month's audio tracks, courtesy of OptyCDPlayer.

LINUXPPC

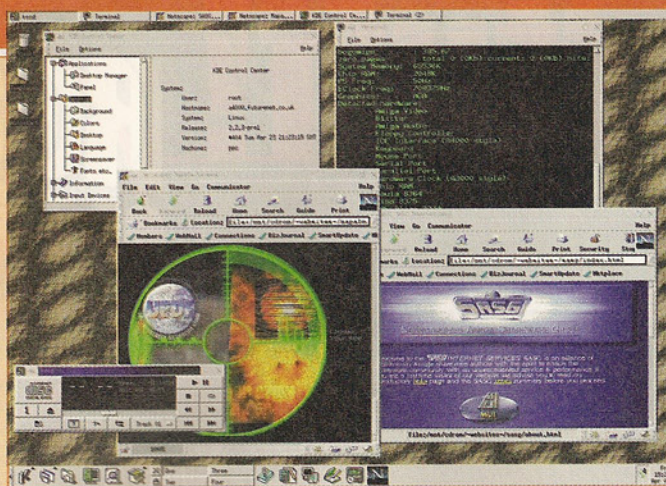
In the Mag-/LinuxPPC

In response to the many requests received in the past, we've finally included **LinuxAPUS** on this month's coverdisc. This is for all of you who feel that their PowerUp cards aren't being exercised enough.

What we have here is the PowerUp Linux kernel and a partial distribution of the PPC port of Redhat Linux 5.0. The packages provided include the full base install, full X Windows install, Netscape Communicator, Gimp and KDE Desktop Environment.

It must be noted, however, that **LinuxAPUS** is still at an experimental stage of development. Amiga Format cannot offer any technical support on its installation or use.

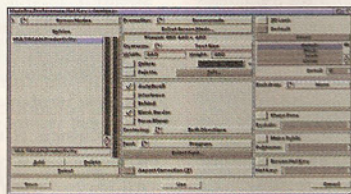
This is the KDE desktop under X Windows on LinuxAPUS. It doesn't remind you too much of Windows95, does it?



← convincing old software to run on an RTG screen, or for those of you who don't have a 15KHz-capable monitor.

Screens that are to be promoted can be matched on either

Whip those screens into shape with **ModePro**.



screenmode, screen name or program name (of the opener). **ModePro** permits the coercion of nearly all aspects of OS screens. You may select the target screenmode, depth, palette, overscan type, system font, default pens, etc; hotkeys may be assigned to screens, custom screens forced to become public and any screen may be given a default backdrop pattern.

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(Please remember to put "Coverdisc" in the subject line.)

Please note that the helpline staff provide assistance with technical problems directly related to the CD and cannot provide training on the software or hardware in general.

We want your work!

You can either send it to us on floppies, Zip disks or CDs (we do take other media formats too). If you are going to send us a multiple floppy backup of your work, please use the version of **ABackup** we supply on the CD in the +System+Tools/Disk_Tools drawer. We'll return any Zips you send us, so don't worry about getting your disks back.

If you have any further queries about how to send your software in then consult the Submissions Advice on the CD (in Ben_Speaks!, or in the ReaderStuff or +System+Info drawers).

Your signature:

Files you send in this month will probably appear on AFCD42 - Amiga Format issue 126, August.

Please tell us:

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☎ 3828 1815.

Amiga Service, Rue Du Nord, 93, 6180 Courcelles.

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Stocks PD disks, CD-ROMs, software, hardware and offers services like scanning, hard drive recovery and laser printing.

Amiga City, Avenue du Prince, Heritier, 176, 1200 Brussels.

☎ 2736 6111.

Generation Amiga, Rue de l'Eglise 22, 1200 Brussels.

☎ 2538 9360.

Digital Precision, Chaussee de Jette, 330, 1090 Brussels.

☎ 2426 0504.



CANADA

+1

National Amiga, 111 Waterloo Street, London, Ontario, N6B 2M4. ☎ 519 858 8760. Visit

<http://www.nationalamiga.com>

Stocks all Amiga products, full line, Amiga dealer and service centre.



DENMARK

+45

Betafon ApS, Gylden Lovesgade 2, 1369 Kobenhavn K.

☎ 3314 1233, email info@betafon.dk or visit

<http://www.betafon.dk>

An Amiga dealer since 1980, sells A1200s, A4000s, PPC cards, RAM, all new software, towers, magazines, etc. Good service with Amiga-specific salesmen who know Amigas.

Kiwi Multimedia, Lerager 60, 3600 Frederiksund.

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Sells a good range of accelerators and other items of hardware.

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Mygale, Boulevard Raimbaldi 31, 06000, Nice.

☎/fax 4 9313 0635.

Software Paradise, Rue de Lamouly 39, 64600 Anglet.

☎ 5 5957 2088, fax 5 5957 2087, visit

<http://www.SPParadise.com>

Official Micronik distributor.

Atéo Concepts, Le Plessis, 44220 Coueron, Nantes.

☎ 2 4085 3085, fax 2 4038 3321, visit

<http://www.ateo-concepts.com>, email info@ateo-concepts.com

Manufacturer and distributor of Atéo products, such as the Pixel64 card.

Pragma Informatique, Route Departementale 523, 38570 Tencin.

☎ 4 7645 6060, fax 4 7645 6055, visit

<http://www.pragma-info.com>

APS, Rue Louis Maurel 15, 13006, Marseille.

☎ 4 910030 44, fax 4 9100 3043, visit

<http://www.aps.fr> aps@aps.fr

Only sells quality products.

SL Diffusion, Route du General de Gaulle 22, 67300 Schiltigheim.

☎ 3 8862 2094, visit <http://195.132.8.152/sld>

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ADFI Application, Avenue de la Liberation 47, 63000 Clermont, Ferrand. ☎ 4 7334 3434

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Phoenix-DP, BP 801, 64008 Pau Cedex.

☎/fax 5 5982 9500, visit <http://www.phoenix-dp.com>

email phoenix@club-internet.fr

Stocks software and hardware for the Amiga, the PC and the Mac.



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☎/fax 04 218 31682, email 01461.2277@compuserve.com



IRAN

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Video titling programs, video games, produces and stocks Epic Marketing stuff.

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JAPAN

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Comi Ami, GCO Pre-Stage Miya, 4-5-6 Honjo Suhida-Ku, Tokyo.

☎ 33636 8471. Visit <http://www.amiga.co.jp/>



NETHERLANDS

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Barlage-Denhaag, Rabarberstraat 142a, 2563 RP Den Haag, Holland.

☎ 070 448 0282, email barlage@mailbox.hol.nl

Hardware and software supplier.

Computer City, Zebrstraat 7-9, NL 3064 LR, Rotterdam.
☎ 31 10 4517722, email info@compcity.nl
Sells most Amiga products and the staff are very helpful.

Courbois Software, Fazantlaan 61-63, 6641 XW, Beuningen.
☎ 024 677 2546.
All hardware and software, with many second-hand products at very low prices.

Document House Xerox, Postbus 542, 8901BH, Leeuwarden.
☎ 058 280 0530 or 058 275 2384.
Stocks all Amiga hardware and software.

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☎ 011 062 5632, email info@amigin.nl
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Comp Karori, Karori Shopping Mall, Karori, Wellington.
☎ 0447 60212, fax 0447 69088, email sales@compkarori.co.nz
or visit <http://www.compkarori.co.nz> or
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RUSSIAN FED. +7095

AmigaLine, Moscow, Zorge 6.
☎ 943 3941 or 943 3871, email ambartsumian@glas.apc.org
An Amiga-oriented computer shop.

Amiga Service, Office 309, Bumazhnaya Str 3, Sankt-Peterburg, 198020. ☎ 812 1868842.
A1200 hardware.

SPAIN +34

Club Byte, C/D. Juan de Mena, 21 bajo Izq, 46008 Valencia.
☎/fax (96) 3921567.

SWEDEN +46

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☎ 0410 16001. Email info@micsamdata.se or visit
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Vidamus Multimedia, Idrottsvägen 3, 915 31, Robertsfors.
☎ 0934 55533, fax 0934 55485.
Email info@vidamus.se or visit <http://www.vidamus.se>
Stocks a wide range of Amiga hardware, towers and serious software, including the official Swedish version of Final Writer.

Syscom, Kvarnplan 6, Jakobsberg.
☎ 08 5803 7300, fax 08 5803 7302. Visit
<http://www.mematex.se> or email syscom.amiga@mematex.se
Stocks Informativ towers, phase 5 products and plenty of other hardware, but very little software.

GG5 Data, Korskevegatan 30, Göteborg.
☎ 031 532526, fax 070 7112492.
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Digitronic, Chr Merian - Ring 7, 4153 Reinach.
☎ 6176565, visit <http://www.digitronic.ch>
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Amiga Shop 2000, Wallisellenstr.318, CH-8050, Zurich.
☎ 411 3221414.
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☎ 411 482 4750, visit <http://www.amigaland.ch>
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☎ 01889 583062.
Stocks second hand games.

Microgenics Systems, 202 Kimberworth Road, Rotherham, South Yorkshire.
☎ 01709 512012.
Do repairs and upgrades, very helpful staff.

Computer and Games Exchange, 65 Notting Hill Gate, London.
☎ 0171 2211123.
Stocks second hand games.

Online PD, Unit 5, Embassy Building, 51a Piercefield Road, Formby, Liverpool, L37 7DG.
☎/fax 01704 834335.
Stocks PD and commercial games, hardware, peripherals, storage units, blank disks, inkjet refills, etc, and some reconditioned hardware.

16/32 Systems, 173 High Street, Strood, Rochester, Kent.
☎ 01634 710788.
Stocks games plus new and used hardware, with a helpful staff.

Dr. Flay's Amiga Clinic @ The Global Lounge, Unit 13, Lemon Street Market, Lemon Street, Truro, Cornwall, TR1 2NS.
☎/Fax: 01872 274037, email dr_flay@hotmail.com or
mike@globallounge.co.uk or visit
<http://www.globallounge.co.uk>
Only stocks PD at the moment, but can order anything with good prices on phase 5 hardware. They are an Internet shop and make websites, do design work, advertising and promo material and can also build custom Amiga/Siemens setups.

Gamestation, Unit 29, The Market Vaults, St. Helens Square, Scarborough, North Yorkshire.
Stocks hardware, games and utilities. Helpful staff.

HardPlay Software, 2 Broad Street, Newquay, Cornwall, TR7 2BU. ☎/fax 01637 850909.

Level 7, 113 Victoria Road West, Cleveleys.
☎ 01253 859004.

SES Computers, 88-90 London Road, Southend-On-Sea.
☎ 01702 335443 or 01702 354624.
Email sesitd@globalnet.co.uk
A large selection of Amiga software, mice and joysticks. Buy and sell hardware and software. Also do repairs and the staff are very helpful.

Cavendish Computers, 144 Charles Street, Leicester.
☎ 0116 2510066.
Hardware (old), games and utilities.

Classic, 11 Deansgate, Radcliffe, Manchester.
☎ 0161 7231638.
PD, commercial games, CD³², CD-ROMs, hard drives, CD-ROM drives, A1200s, floppy drives, disks, modems. Free fitting service on hard drives.

Mays, 57 Church Gate, Leicester city centre.
☎ 0116 2516789.

Computer Solutions, Unit 2, Mill Lane Mews, Ashby-de-la-Zouch, Leicestershire, LE65 1HP. ☎ 01530 412983.
New and used software, hardware, stocks full range. Helpful staff.

Planet Games, 3 Royal Oak Buildings, Waterloo Road, Blackpool.
☎ 01253 348738.

Electronics Boutique, Unit 120, 3 Russell Way, Gateshead Metrocentre, Gateshead, Tyne & Wear.
☎ 0191 4602637.
A small selection of about 40 different games and utilities, mainly older but some new. Also some peripherals.

Swops, Corner of Bold Street, Fleetwood.
☎ 01253 776977.

Allsorts, 51 Park Road, Wosbrough Bridge, Barnsley.
☎ 0589 272940.
Games, PD, disk drives, monitors (all used).

Game, Sheffield Town Centre. ☎ 0114 2729300.
Sells various Amiga games, utility disks and other items of software. Customers can reserve games in advance.

Electronics Boutique, Gallowtree Gate, Leicester city centre.
Stocks most games, although it does tend to be a bit slow on new games.

Tech-Exchange, 3 Forest Road East, Nottingham, NG1 4HJ.
☎ 0115 9100077.
All Amiga products and a helpful and knowledgeable staff.

Vortex Services, 13-15 St. Michael's Square, Ashton Under Lyne, Lancs, OL6 6LF.

Electronics Boutique, 81 High Street, Meadowhall Centre, Sheffield. ☎ 0114 2569060.
Games, utilities, mice, educational software and can order software. Helpful staff.

Electronics Boutique, Unit 19, St. John's Centre, Perth, PH1 5UX, Scotland.
☎ 01738 637807.
Software and peripherals and will order any Amiga games you require.

Computer Cavern (Capri CD Distribution), 9 Dean Street, Marlow, Bucks, SL7 3AA. ☎ 01628 891101.
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TLAS, PO Box 30499, Midland, Texas, 79712.
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Does anyone have any of the following games for sale? Super Cars 2, Gods, Arcade Pool, Super Stardust CD. Will pay good money. Originals only please. ☎ Martin 0171 4952657.

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Hard drives, accelerators, 68030 or higher, 32Mb if possible. CD-ROM drive, SCSI, 2x faster, if possible with Squirrel. Also monitor and stereo would be nice. Anything for A1200 considered. ☎ 01504 841665.

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AF Campaign II and Pacific Islands or any decent tank simulator to buy or swap. ☎ Rich 01482 375428 (after 7pm).

AF Pirates. Must have map. Also Sentinel, both for A1200. ☎ Alan 0151 4206648 any time.

AF Lionheart by Thalio Software. Released in 1993. Will pay £10 for original boxed version, must be in excellent condition. Will pay postage. Also Turrigan 1, 2 or 3. ☎ Robert 01738 813904 or 07887 665660.

AF Alien Breed 3D (2 or 1). Floppy version, must have manual, etc. ☎ 01902 441306. Ask for Mick.

AF OXYPatcher, full version. Also full version of Coarse Angler, to run on A1200. No demos please. Plus Sea Bass fishing and any Aminet CDs. Must be cheap. ☎ 01425 278401.

AF Dreamweb and Police Quest 2/3 in exchange for games of the same value. Must work on A1200 and be in good condition. SAE to Ross Whiteford, Cordon Mains, Abernethy, Perth, Scotland, PH2 9LN.

AF Accelerator, CD32 with all necessary cables for A1200 wanted by pensioner still in learning process. ☎ Derek 01424 752806.

AF Supra Turbo 33 side port expansion for A500+. New keyboard membrane also wanted. ☎ 01773 768700.

AF Two games for A1200 – Morph AGA by Millennium, two disks, and Darkseed, seven disks. Must have background manual for codes. ☎ 01909 591461.

AF CD writer for use with Squirrel (SCSI). Have MasterISO and '040 (external unit required). Write speed unimportant. ☎ 01203 453521.

PERSONAL

AF Also see the AmigaAngels document on our CD.

AF Amiga contacts wanted to swap games. Will reply 100%. Contact Mr. Martin Emery, 3 Scott Ave St., Budeauy, Plymouth, Devon, PL5 1HQ.

AF Amiga music contacts wanted for swapping MODs and samples. Must be SoundStudio compatible. Contact Rob at 47 Gordon Road, Peckham, London, SE15 2AF. Will answer all letters.

AF Alphas etta gammede late 'psilonz' etta etta etta ioam taka ppal day month uknow xiours ximins iclips ic aron tak allu up jammeis astone builders rejected barrasford park NE48.4BB.8.

AF English Amiga user in Paris wants to meet other users to talk and share ideas and maybe start a user group. Robert Sowden, 2 Rue Maria Deraismes, 95600, Eaubonne, France. 01342 79885.

BBSes

AF Send your BBS ads to the usual Reader Ads address. BBS ads will be printed for three issues.

AF Skull Monkey BBS, Lincoln. Online 6pm-8am, 24 hours at weekends. ☎ 01522 887933. Friendly sysop. Email sns@skullmonkey.freeserve.co.uk keeping the Amiga alive.

AF Elevate BBS, Hants, online 24 hours. ☎ 01329 319028.

AF Bedlam BBS, Leicester, online 24 hours. ☎ 01162 787773.

AF Entertainment BBS, Wigan, online 24 hours. ☎ 01942 221375.

AF The Forum! BBS online 24 hours, Kilmarnock, Scotland. Over 35 members, 2,000+ files available, including games, pics, utils, etc. Sysop: Jamie Maguire. Run by a software development student. ☎ 01563 540863. 36K.

AF Bill's BBS, Cumbria, online 24 hours (mail only between 2.30am and 3.30am). ☎ 01229 434393 or 0870 7878615. Sysop: Bill Clark. Visit <http://cumbria.cjb.net>, email billsbbs@cornerpub.com or bill.clark@ukonline.co.uk. Supports Fidonet. Loads of free files, games, doors, quizzes, etc. Unlimited downloads.

AF X Zone BBS, supporting the Amiga for over two years. Do you want the latest files? ☎ 01635 820590, 6pm-1am, modem callers only (33.6K). Call now.

AF Quest BBS, Wakefield. West Yorkshire's largest BBS with over 30,000 files online, including the latest 7 Aminet CD-ROMs. Online weekdays, 6pm-6am and weekends, 2pm-6am. ☎ 01924 250388.

AF On The Oche BBS, Waterloo, online 24 hours. ☎ 01705 648791.

AF Moonlight BBS, Bedford, online 6pm-8am, 24 hours at weekends. ☎ 01234 212752.

Sysop: John Marchant. Email gnome@enterprise.net. Official Transamiga Support BBS, unlimited downloads, very friendly sysop with excellent Amiga knowledge. Aminet online. Run by an experienced Amiga programmer who will help for free.

AF L's BBS, Kent, online 6pm- midnight. ☎ 01795 511103.

AF Amiga Nutter BBS, Herts, online 24 hours. ☎ 01707 395414.

AF Arachnoids BBS, Leicestershire, online 24 hours. ☎ 01509 551006.

AF Xanadu BBS, Wigan, online 24 hours. ☎ 01942 746342.

AF Zodiac BBS, Hants. Online 11am- 7pm 7 days a week. ☎ 01243 373596. Sysop: Destiny Co. Sysop: Axl. Running Maxs Pro v2.11, Hellnet. Lots of files.

AF Echoes BBS, (Camberley). Line 1 ☎ 01276 502641, 56K, 24 hour. Line 2 ☎ 01276 502642, 33K, 24 hour. Sysop – Steve Barnett. <http://surf.to/echoes.bbs>

Latest Aminet downloads, nine online CD-ROMs, Fidonet and other mail networks. Offline reading available and free email to all members. In fact, free everything – no subs of any kind as the BBS is run for the love of the Amiga and Xenolink software.

AF Black Magic BBS, ☎ 01788 551719 after 10pm, over 6,000 files online.

AF Frost Free BBS, ☎ 01484 327196 (Slaithwaite, W. Yorks).

USER GROUPS

AF User group ads will be printed for three issues.

AF Amiga users – do you need help? Amiga users – can you help? If so, contact Terry for more details. ☎ 01709 814296.

AF Medway and Maidstone Amiga collective. Meets monthly. Advice at all levels. Experts and beginners wanted. ☎ Dave 0961 809466. Support your local user groups!

AF Join a new email club for Klondike, a Reko Productions game. Cardset creators and cardset collectors, Amiga and PC. Email kevin@reko.karoo.co.uk (make friends).

AF Bournemouth: Dorset/Hampshire. Anyone interested? User group contacts. Amigan, one year, seeks new/old users for chat/helping each other. Email to start, can/will post later if not online. gctshe_m@mail.bournemouthandpoole-cfe.ac.uk

AF New Amiga sound and demo association seeks input, contacts and support to form a user group based around the Amiga music and demo scene. Interested? ☎ Daev 01243 864596 or 0961 985925.

AF Interested in Internet Relay Chat? Why not visit #Amigazone on Dalnet? We are a friendly bunch and meet at 10pm every day. Visit: <http://www.tsd-ltd.demon.co.uk>

AF Is there anybody in the Northamptonshire area interested in starting up a new user group? Please contact me: ☎ 01536 724309 or email nstthomas@ukonline.co.uk

AF Greenford Computer Club. 180 Oldfield Lane South, Greenford, West London. Meets: Thursdays 7-10pm. Everyone welcome. Anything Amiga. ☎ Richard Chapman 0181 9988599 after 7pm weekdays, all day weekends, or email if97rrc@brunel.ac.uk

AF The Amiga free helpline needs helpers, especially with regard to video, music, radio, graphics cards, PPC and digital cameras. Also, anything else that you can think of. ☎ Terry 01709 814296.

AF Great Yarmouth user group. Anyone interested in joining this new group ☎ John 01493 722422.

AF For the latest Amiga news, reviews, articles and interviews, visit <http://www.amiga1.demon.co.uk/aio>

AF Any Amiga users in Birmingham wanting to set up a user group? Please ☎ Hitesh 0121 6056452.

AF Amiga free helpline needs helpers. Also, it needs to help other Amiga users. If you fit into either category, ☎ Terry on 01709 814296 for more info.

AF SEAL, South Essex Amiga Link. Meets twice monthly at Northlands Park Community Centre, Basildon, Essex. Offers help, advice, tutorials and presentations on popular software and hardware. Also scanning, printing, email and a 36 page A4 magazine. Contact Mick Sutton, 20 Roding Way, Wickford, Essex. ☎ 01268 761429 (6-9pm). Email seal@thunder.u-net.com or visit <http://seal.amiga.tm>.

Amiga User Groups

Ben Vost shares a beer with some of the SWAGgers in Bristol and talks to president Andy Mills about how it got started.

AF's local user group is based in Bristol, kind of, and I try to attend as often as I can. Right now it's not really a technical user group, more a gathering of like-minded people in a pub near the monstrosity that is Cribbs Causeway shopping mall on the outskirts of Bristol. I spoke to the club's president, Andy Mills, about the

There'll also be more technical meetings in the future that will cover software demos, hardware installation, etc...

GET YOUR GROUP IN AF

If you have a user group and you're interested in being showered in glory by having us, or one of our team, visit, then make sure you let us know about yourselves. Although *Amiga Format* can't necessarily afford the time to visit every user group, our friends at AmigaSoc are UGN (User Group Network) representatives that you should be familiar with.

As time goes by, they will endeavour to visit most, if not all, of the user groups in the country and then write them up for AF. If you haven't contacted us or AmigaSoc about a visit yet, now's the time to do so. Visit AmigaSoc's website at <http://uk.amigasoc.org> and get your user group on their database. If you're interested in setting up a new user group, visit their website anyway and look for like-minded souls in your area through their Soul Hunter database.

AMIGA
USER GROUPS

S.W.A.G.



Just some of the lovely lads and lasses of SWAG. They are more cheerful than this usually, honest. Andy Mills is third from the right with his arms folded.

whys and wherefores of his user group, and this is what he had to say:

AF: How did SWAG get started?

SWAG: Originally, a chap called Steve Dark advertised for people interested in joining a user group based in the south west of England (SWAG, the South West Amiga Group), many moons ago. Sadly, he couldn't take it any further due to time restrictions and his job, so after a little discussion he passed on the names he'd gathered to me and I contacted those people at the end of December 1997. It went on from there.

AF: How much is it to join?

SWAG: It's currently free as 99.9% of members are on the Internet. This will change in the (near-ish) future as I can't afford to run the group from my own pocket when SWAG expands to cater more for Amiga owners who aren't on the Internet.

The expected membership fees are likely to be: full – £10, part – £5, free – er, free...

This will be per year. Full membership will include the SWAG newsletter. This is released quarterly at present, but it'll be bi-monthly when I can get more help with it, posted via snail mail, and any other newsletters that become available. There'll also be a club badge, free or reduced entrance to demonstrations, etc.

Exact details on what membership options will be available and what it includes have yet to be finalised.

AF: How often does it meet and where?

SWAG: We currently meet on the first

Thursday of every month at 8:30pm in the Lamb and Flag (part of the Harvester chain of pubs), Cribbs Causeway (A4018, just off junction 17 of the M5), Bristol. It's opposite Harry Ramsden's. More detailed directions can be obtained from myself if required.

These meetings are informal and not all techy, or completely on about Amigas all of the time, so don't worry about bringing along your other half as we'll try and not to bore them. We also have members aged from 12 to 77, so don't let your age put you off.

There'll also be more technical meetings in the future that will cover software demos, hardware installation, tutorials and so on. These will be in addition to the monthly pub meeting.

AF: Any more details?

SWAG: At the time of writing, we have 35 members from Hereford to Cornwall, and even one from Scotland!

At present, there's only myself "running" SWAG, so things aren't progressing quite as well as I would like, or as they should, in my humble opinion, because I have to do this in what little spare time I have...

SWAG INFO

If you contacted Andy before and haven't heard from him for a long time, please contact him again if you're still interested as many contact details he had were misplaced when he moved house earlier this year.

☎ 01275 830703, 7pm to 10pm only please. ☎ Mobile: 0797 096 3881. The SWAG home page can be found at: <http://www.wharne.u-net.com/swag/> or <http://surf.to/swag/>.



Amiga Format's mailing list is getting more active all the time. Over 500 people are now on it. **Why aren't you?**

Should you want to have your say about important Amiga topics, like those quotes in the piracy feature in the last issue of *Amiga Format*, the way to do it is to get on the afb mailing list. The afb is chock-full of info and fun every day and has *Amiga Format* readers from all over the world involved. If you have a tricky technical problem or just want the latest details on the new Amiga or the current one, the afb is where you'll find what you need.

This month we've talked about all sorts of things, from piracy, the Millennium, digital cameras and our AFCD to the iMac, and although the list is quite busy, you can merely dip your toe in the water by reading messages on the web if you choose to do so.

In addition to the messages on the afb, it's also the place where you can

answer polls set by us or other users of afb, find out the deadlines for the next issue of *Amiga Format* or for special upcoming events, and visit some of the links posted by Amiga users.

It's easy to join, free to use and will help to enrich your Amiga-using life, so what are you waiting for?

In any case, it's a useful forum for discussion, which will help Amiga users stick together in adversity. The crowd on afb is friendly and at all experience and age levels so you won't be out of place, no matter how old or young you are, whether you don't know one end of an Amiga from the other, or whether or not

you can recite the registers on every custom chip the Amiga holds.

It's easy to join, as you can see below, free to use and will help to enrich your Amiga-using life. If you're online, what are you waiting for?

GETTING ON AFB:

You can subscribe to the afb by going to the following website and signing up:

<http://www.egroups.com/list/afb/>

If you just want news on when the next issue of *Amiga Format* will be out, we offer that at:

<http://www.egroups.com/list/afb-announce/>

It's worth joining both lists since they each offer unique things and the announce list usually only has one email every four weeks.

Fax-Back

Here's a new service for *Amiga Format* readers. We're only starting it this issue, but we'll expand it as people wish – just let us know what you want to see here.

Whether it's tutorials, reviews or features from recent issues or older ones, we're ready to include what you want to see, so just get in touch and give us the details of what you want (feature name, issue number, page number) and

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Whether it's tutorials, reviews or features from recent issues or older ones, we're ready to include what you want...

we'll put it on the list. If you don't know these details, ask us anyway and we'll see what we can do.

Remember that you'll need a combined phone/fax to take advantage of this service.

FEATURES BY FAX

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FEATURES:

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| Netscape Interview | AF123 | 052 |



AF 124 - JUNE 1999

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If you have a feature idea, a long term test, a reader request or you want to be in the Amiga Angels list, send an email to ben.vost@futurenet.co.uk with "Features", "Reader Review", "Reader Request" or "Amiga Angels" in the subject line accordingly. If you don't have email, a letter to the AF address with the same subject headings is also fine.

If you want to speak to us about a technical problem, we have a reader call day on Tuesdays. Call us on (01225) 442244 (10am-1pm, 2pm-5pm only). We're sorry, but we can't give games tips over the phone.

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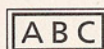
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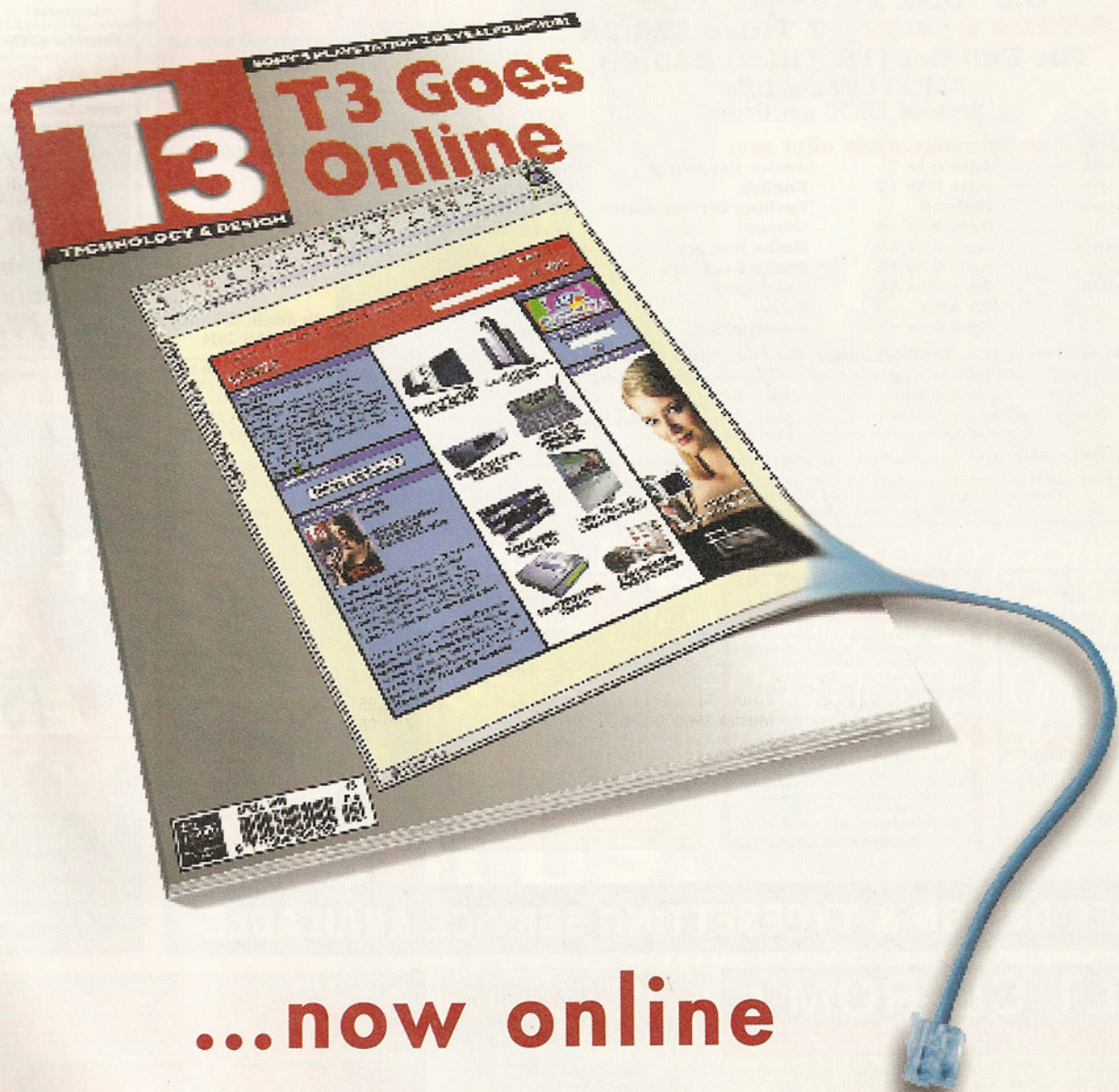
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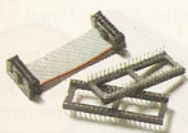
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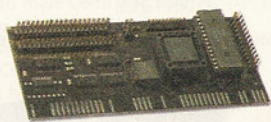
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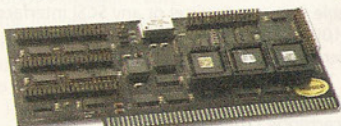
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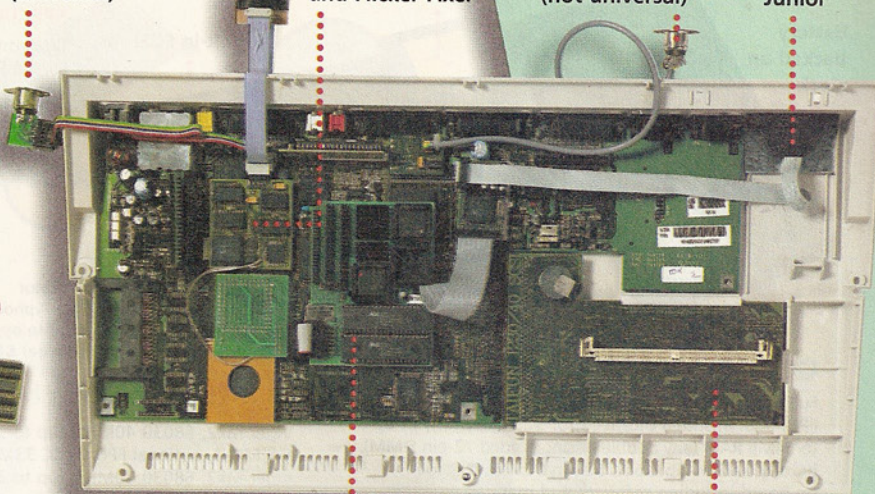
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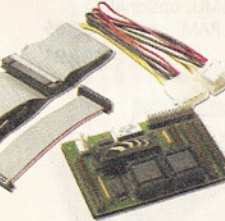
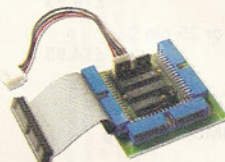
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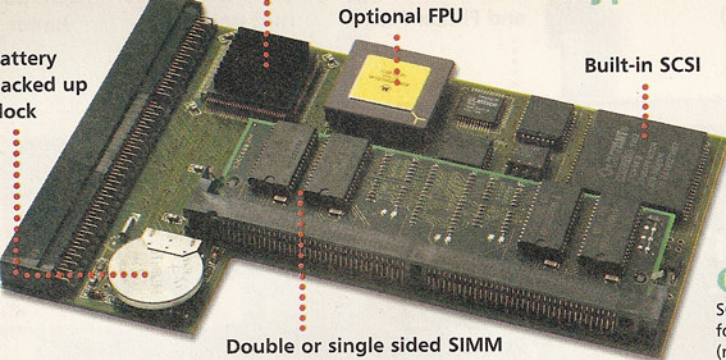
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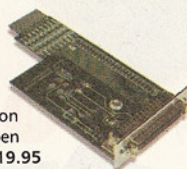


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(8.4 and 13GB HD are supported automatically by the PowerFlyer or by IDEfix 97 using the patch provided, an updated FileSystem is available on www.amiga.de. Please note that cables included with 3.5" HD have standard 40pin headers. If you need to connect a 3.5" HD directly to the A1200 motherboard, you will need a special "stack" cable 44 high density (2.5") to 40 standard (3.5") IDE cable £12.95

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NEW Typhoon Mk2 SCSI Chip £20.00

NEW Typhoon Mk2 Desktop Ext. SCSI adaptor £14.95

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For any external removable device we offer the PowerFlyer instead of the 4-way buffered interface for £49.95

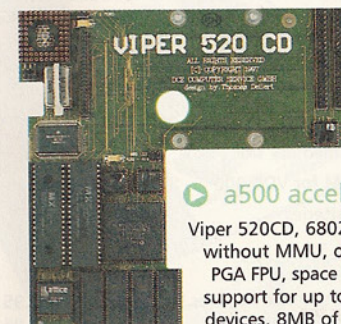
a1200 accelerator boards

Viper Mk2, 68030 40MHz, (up to 32MB), full MMU, optional FPU (PLCC 33MHz only) £59.95
Viper Mk2, 68030 40MHz, (up to 32MB), full MMU, FPU 33MHz £69.95
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GVP 1230 50MHz inc. 16MB (upgradable to 32MB) including 40MHz FPU and SCSI upgradable £119.95



a500 accelerator

Viper 520CD, 68020EC 33MHz, without MMU, optional 33MHz PGA FPU, space for one 2.5"HD, support for up to four IDE/ATAPI devices, 8MB of Fast RAM on board and 3.0 Kickstart ROM

including full 3.0 Workbench disk set FAT Agnus slot to fit Mini Mega Chip £99.95

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for accelerator and expansion boards

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16MB SIMM £35.95
32MB SIMM £55.95
32MB SIMM (slim for Blizzard 1260 boards) £79.95
64MB SIMM (Typhoon and all Blizzards) £139.95
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GVP custom 4MB RAM module £49.95
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Power Tower Bare £119.95

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Power Tower plus A1200 motherboard, mouse, PC keyboard, FDD, Typhoon 68030 40MHz, 40MHz FPU, 40MB of RAM, 32x IDE CD-ROM drive, Internal IDE Zip drive and 1 cartridge, 2.1GB Hard Disk, internal Scan Doubler inc. Flicker Fixer, 15" SVGA monitor, 4-Way IDE buffered interface inc. EIDE 99 and external audio port with speakers £899.95

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PCMCIA "V" adaptor £19.95

External audio port £15.95

"Y" cable to mix CD audio to the Amiga audio £9.95

Internal to External SCSI adaptor (Internal 25 pin female connector, Internal 50 pin header External 25 pin male connector) £19.95

SCSI II converter from(PPC) 50 pin high density to 25 D male, including extension cable to the Int/Ext SCSI adaptor £29.95

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50 pin male to male Centronic lead £14.95

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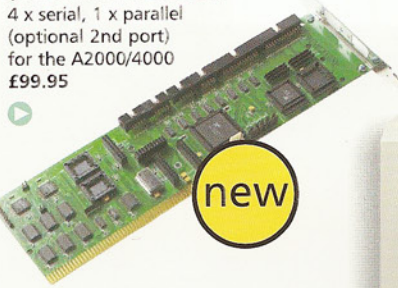
▶ 4way buffered interface/EIDE'99 s/w

- Supports all IDE and ATAPI removable devices
- Autoboot from Zip and LS-120 drives
- 4 IDE/EIDE/ATAPI devices support
- 2 x 3.5" connector, 2 x 2.5" connector, separation and buffering of control signals for both ports
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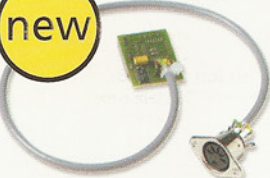
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*requires keyboard interface

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A1200 motherboard without ROMs £99.95

A1200 motherboard with ROMs £125.95

A replacement motherboard is usually the best long term solution if you have a damaged or unreliable A1200.

▶ amiga 3.1 operating system

Amiga 3.1 OS for A1200/3000/4000 ROM chips, disks and manuals £39.95

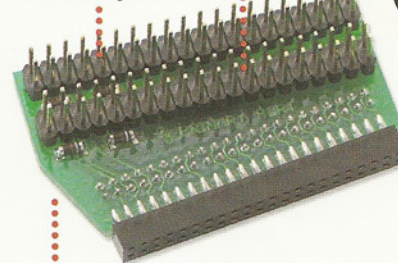
Amiga 3.1 OS for A500/600/2000 ROM chips, disks and manuals £35.95

Amiga 3.1 OS disk set and manuals £19.95

Amiga 3.1 OS A1200/3000/4000 chips only £25.95

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 - Techno Cop - Top Gear2 - VenusFlyTrap
 - Zool - Zool2 - Utopia
- These should also be on the CD...
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 - FOFT - Pegasus - Plan9 From Outer Space
 - Skidz - VideoKid - Super Cars - Suspicious Cargo - Vampires Empire



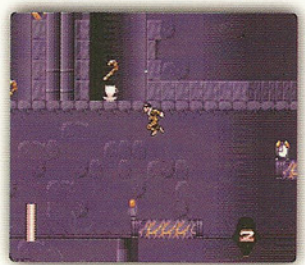
25 TOP GAMES



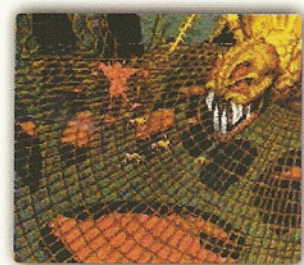
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Disposable Hero



Harlequin



Lital Divil



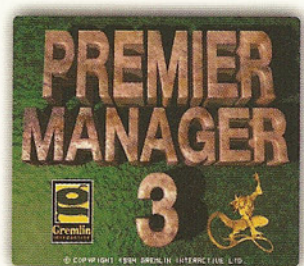
Pegasus



Premier Manager



Premier Manager 2



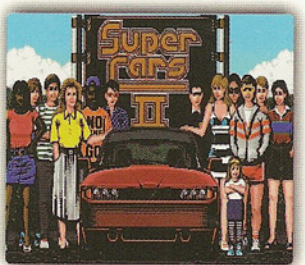
Premier Manager 3



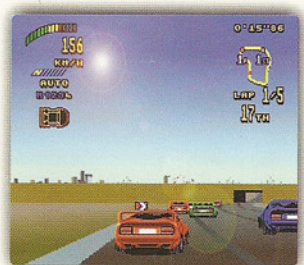
Switchblade II



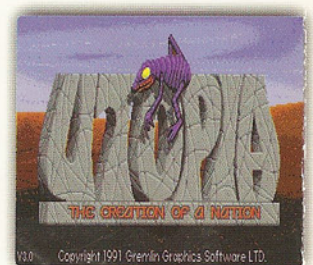
Super Cars



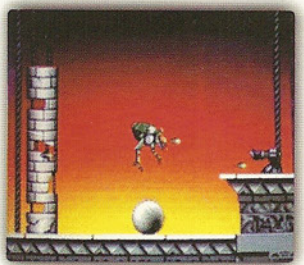
Super Cars II



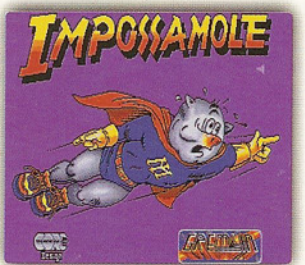
Top Gear 2



Utopia



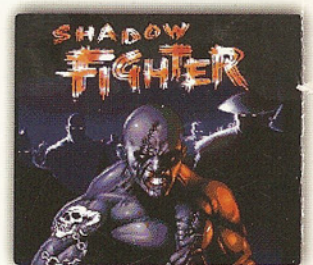
Venus Fly Trap



Impossamole



Zool 1 & 2



Shadow Fighter