

CU

AMIGA

M A G A Z I N E

January 1998 £5.99 US\$14.50 • IL20,500 • ASCH185 • BFR 445 • DM 28.00 • LF 490

WORKBENCH 2000

How to craft the perfect
operating system

On the CD-ROM:

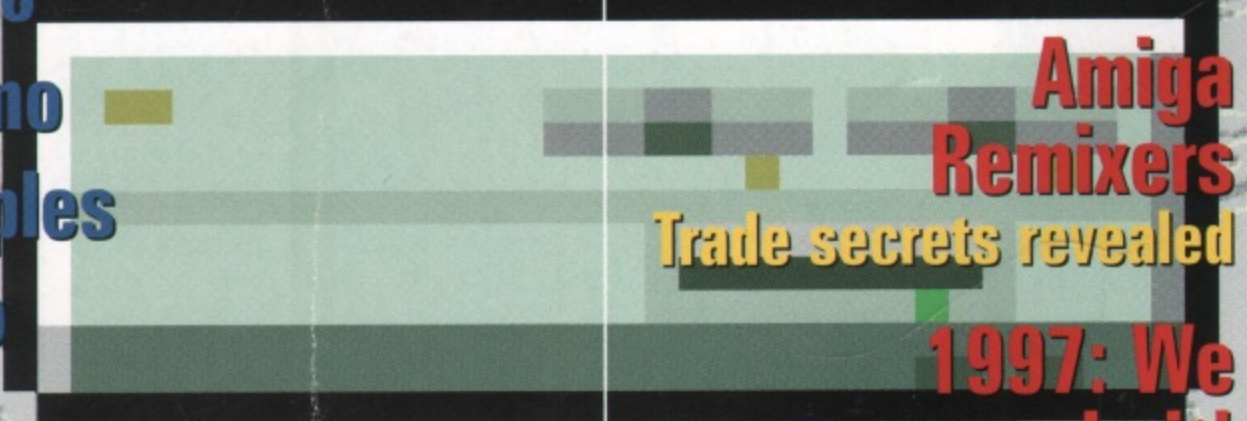
- Personal Paint 6.6
- Sound Probe Demo
- New Sound Samples
- Foundation demo
- Trapped 3 demo

Plus over 600Mb of software



PowerUP
Reviewed

Full test of
first PowerPC



Amiga
Remixers

Trade secrets revealed

1997: We
made it!

The highs and the lows

No CD-ROM?
Ask your Newsagent!

CD-Edition, disk
version also available



emup. images



Weird Science

NEW ADDRESS Q HOUSE, TROON WAY BUSINESS PARK,
HUMBERSTONE LANE, LEICESTER. LE4 9HA

Phone 0116 246 3800
Fax 0116 246 3801
Email sales@weirdscience.co.uk
WWW www.weirdscience.co.uk

NEW AMINET BOX SET PRICES.



£27.99 £27.99 £15.99 £15.99 £15.99

AMINET CDs



ALL ONLY £10.99 EACH

SUBSCRIBE TO THE AMINET CD'S AND RECIEVE EACH AMINET FOR JUST £8.99. AS EACH NEW CD IS RELEASED WE WILL CHARGE YOUR CARD AND DISPATCH YOUR NEW CD ON THE DAY OF UK RELEASE.
(SUBSCRIPTION BY CREDIT/DEBIT CARD ONLY)



Take a look at this Pre Release of p.OS and enjoy the advantages of modern operation, independance and simply forget compatibility of new operating systems - since p.OS/AMIGA runs parallel to the AMIGA-OS and still is independent and of good nature.
System Requirements:
Amiga Kickstart 2.0 (For Installation)
68020, 4Mb Free Fast RAM, Hard Drive, CD-ROM Drive



p.OS PRE-RELEASE
£19.95

p.OS PRE-RELEASE

MEETING PEARLS 4
£4.99



GIGA GRAPHICS

£9.99



GEEK GADGETS

£12.99



GEEK GADGETS 2

£12.99



AMIGA DEVELOPERS CD

£10.99



AMIGA REPAIR KIT

£34.99



MAGIC PUBLISHER

£29.99



MODS ANTHOLOGY

£22.99



ERIC SCHWARTZ CD

£19.95



SYSTEM BOOSTER

£9.99



EURO CD VOL. 2

£11.99

CALLERS WELCOME
NEW SHOWROOM NOW OPEN
SEE THE POWER PC CARD
UPON RELEASE

EACH £14.99 EACH £14.99 EACH £14.99 EACH £14.99 EACH £14.99 EACH

Personal Suite CD
Sounds Terrific 2
Women of the Web
Light Rom Gold
Card Games CD
17 Bit LSD 3
UPD Gold
Imagine PD CD
Multimedia Backdrops
Sci-Fi Sensations 2
Assassins CD Volume 2
1,078 Weird Textures
3,000 JPEG Textures
Dem Rom
Magic WB Enhancer
NFA Utilities Experience
NFA AGA Experience 2
Scene Storm
Oh Yes! More Worms
Octamed 6 CD
Clip Art CD
3D Objects
Retro Gold

TRADE & RETAIL DISTRIBUTORS FOR GTI, SCHATZTRUHE, CLOANTO, GRAPHIC DETAIL, INTERACTIVE, EPIC, SADENESS, PD SOFT, HISOFT, VULCAN, GUILDHALL LEISURE, AND AMIGA INTERNATIONAL.



SCHATZTRUHE

International Distributor:



PC NETWORK

Access all of the PC Drives.
Read & Write to the PC.
Load files directly from the PC.
Up to 49k/sec for Amiga > PC.
Up to 29k/sec for PC > Amiga.
Easy Installation for Amiga & PC.
Requires WB2.04+ & Windows 95.

NEW COMPANION CD-ROM NOW INCLUDED

Network PC includes a 3m Cable, installation disks for both computers, detailed manual and a companion CD-ROM. The CD contains utilities for the Amiga & PC and the Amiga Emulator for Windows 95 with games & demo files.

£17.99

THE DEFINITIVE AMIGA TO PC LINKUP SYSTEM JUST GOT BETTER

£17.99

Fontamania!

Contents
1919 Adobe
767 Bitmap
228 Calamus
1105 CG Fonts
244 Coloured
300 GDos
175 Iff Pics
918 Intellifont
139 Pagestream
173 ProDraw
1658 Ps Fonts
1477 True Type
1562 Type 1

Fontamania £9.99

Contents
1919 Adobe
767 Bitmap
228 Calamus
1105 CG Fonts
244 Coloured
300 GDos
175 Iff Pics
918 Intellifont
139 Pagestream
173 ProDraw
1658 Ps Fonts
1477 True Type
1562 Type 1

Fontamania £9.99

£24.99

PERSONAL PAINT 7.1

£9.99

KARA COLLECTION

£19.95

AMY RESOURCE

£9.99

NETWORK CD 2

£19.95

HIDDEN TRUTH

£19.95

ENC. OF PARANORMAL

3 CD Set

LIGHT ROM 5

£29.95

£14.99

EPIC COLLECTION 3

£14.99

NFA AGA EXPERIENCE 3

£29.95

SCALA PLUG IN

£19.95

EPIC ENCYCLOPEDIA

£14.99

LIGHT ROM GOLD

£19.95

LIGHT ROM 4

AWARD WINNERS

ASSASSINS CD 3

£19.95

AGA TOOLKIT '97

£9.99

LEARNING CURVE

£19.95

AMIGA SUPERSTAR

HARDWARE

BLIZZARD

BLIZZARD 1230-50 £99.99
50MHz CO-PRO £39.99
BLIZZARD 1260-50 £329.99

CYBERSTORM

CYBERSTORM PPC 200 MHz
WITH 68060-50 £849.99

PICASSO IV GFX CARD
£279.99

CLASSIC Squirrel

The SCSI interface for your Amiga 600/1200

INFINITIV AMIGA

1300 £349.99
1400 £469.99
1500 £599.99

1.2gig Hard Drive & 10 Speed CD-ROM
extra £150.00

INFINITIV TOWER KIT £159.95
ZORRO II SLOTS £149.95
ZORRO III SLOTS £319.95
3.5" SNAP ON BAY £11.95
PCMCIA ADAPTER £29.95
KEYBOARD CASE £39.95

TRAPPED 2

£19.95

STRANGERS

£19.95

BIG RED ADV.

£19.95

ARCADIA ACTION £12.99
ACID ATTACK £12.99
BURNOUT AGA £16.99
BOGRATS £12.99
BREATHLESS £12.99
COLOSSUS CHESS £4.99
DESERT STRIKE £8.99
F15 STRIKE EAGLE £12.99
F19 STEALTH FIGHTER £12.99
F17A NIGHTHAWK £8.99
MICROPROSE GRAND PRIX £12.99
FORMULA 1 MASTERS £19.99
HILLSEA LIDO £12.99
IMPOSSIBLE MISSION £8.99
JET PILOT £16.99
CIVILISATION £12.99
MANYK MAYHEM £12.99

MINISKIES £8.99
ROADKILL £4.99
ROAD RASH £8.99
SENSIBLE SOCCER £19.99
SUPER SKIDMARKS £8.99
TESTAMENT £16.99
TIMEKEEPERS £ 12.99
TIN TOY ADVENTURE £24.99
UFO £12.99
VALHALLA 1 £14.99
VALHALLA 2 £14.99
VALHALLA 3 £16.99
VIRTUAL KARTING £8.99
WORMS £24.99
CAP. PUNISHMENT £24.99
XP-8 £8.99
VENDETTA £16.99

CALL FOR A FULL LIST OF HARDWARE

GAMES

NEMAC IV

£19.95

TINY TROOPS

£19.95

MANYK MAYHEM

£19.95

TRAPPED 2

£19.95

THE PARK

£19.95

VALHALLA

£19.95

STRANGERS

£19.95

THE BIG RED

£19.95

THE BIG RED

£19.95

TELEPHONE ORDER HOTLINE

0116 246 3800

UK POSTAGE IS £1.00 FOR THE FIRST ITEM AND 50p EACH EXTRA ITEM, OVERSEAS IS DOUBLE.

WE WILL PRICE MATCH ANY ADVERT IN THIS MAGAZINE

TELEPHONE ORDER HOTLINE

0116 246 3800

TELEPHONE ORDER HOTLINE

0116 246 3800

AMIGA

JANUARY 1998 • CONTENTS

Editorial

EDITOR Tony Horgan
TECHNICAL EDITOR Mat Bettinson
STAFF WRITER Andrew Korn
PRODUCTION EDITOR Russell Cox
DESIGN Gordon Barrick
CD-ROM COMPILER Neil Bothwick
TECHNICAL CONSULTANT John Kennedy
CONTRIBUTORS Jason Compton, Larry Hickmott, Jason Hulanco, Steve Bye, Mark Forbes, Sjur Mathisen, Gordon Barrick
COVER ILLUSTRATION Ben Jennings
PHOTOGRAPHY Sarah Best
SCITEX MANAGER Sarah-Jane Leavey
SYSTEMS MANAGER Andrew Korn (again)
GENERAKL MONKEY

Advertising, Marketing & Management

EXECUTIVE PUBLISHING DIRECTOR Sarah James
PUBLISHER Andy McVittie
GROUP AD MANAGER Liza Merrett
SOFTWARE MANAGER Chris Perera
SENIOR SALES EXECUTIVE Marianna Masters
AGENCY SALES EXECUTIVE Genevieve Dick
SALES EXECUTIVE Justin Wakeham
AGENCY SALES MANAGER Paul Lanzarotti
PRODUCT MANAGER Kirstin Ritchens
MARKETING EXECUTIVE Zoe Wharnsby
PRODUCTION MANAGER Sam Lee
AD PRODUCTION MANAGER Emma Minford
AD PRODUCTION EXECUTIVE Natasha George
ADVERTISING ASSISTANT Annabel Green
FACILITIES MANAGER Robert McBride

CU Amiga Magazine

37-39 MILLHARBOUR, ISLE OF DOGS,
 LONDON E14 9TZ, UNITED KINGDOM
 0171 972 6700
 GENERAL@CU-AMIGA.CO.UK
 WEB SITE: www.cu-amiga.co.uk
 SUBS ENQUIRIES: 01858 435350
 ADVERTISING PRODUCTION FAX: 0171 972 6755

Contacts

READERS' LETTERS AND TECHNICAL PROBLEMS: For general, non-technical, enquiries send your letters to the address above clearly marked for BACKCHAT. For technical problems send them clearly marked Q&A. Because of the nature of many enquiries they cannot be answered by phone. You can E-mail us at backchat@cu-amiga.co.uk or Q+A@cu-amiga.co.uk.

PD REVIEWS: We get hundreds of new PD programs every week, but we're still hungry for more. If you've written a PD program that you're proud of send it to: PD SUBMISSIONS, CU Amiga Magazine, 37-39 Millharbour, Isle of Dogs, London, E14 9TZ.

ADVERTISING OR ADVERTISING PROBLEMS: If you wish to advertise in CU Amiga Magazine, please contact Marianna Masters on the above telephone number and address. Contact Annabel Green if you have a query regarding any advertisement in CU Amiga Magazine.

COVER DISK PROBLEMS: If you have a faulty cover disk then write or return your disk to our duplicators: DISKXPRESS, 7 WILLOW COURT, BOURTON INDUSTRIAL PARK, BOURTON-ON-THE-WATER, GLOUCESTERSHIRE GL54 2HQ. TEL: 01451 810788.

COMPETITIONS: CU Amiga Magazine often runs competitions. To enter one of these simply put your name and address on the back of postcard, along with the answers and send them to us at the usual address (unless otherwise stated in the competition). Competition entries are only accepted by post. One entry per person please and the editor's decision is final. Winners will be notified by post. Other rules may be printed from time to time.

BACK ISSUES: 01858 435 350. Subject to availability. DD disk issues: UK price £5.99 (inc P&P). Rest of world £6.50. CD-ROM issues: UK price £9.99, Europe and Rest of world £17.50.

SUBSCRIPTION DETAILS: Subscriptions are available from Tower Publishing, Tower House, Sovereign Park, Lathkill Street, Market Harborough LE16 9EF Tel: 01858 435 350. Annual subscription rates (inc postage) 12 issues: UK/BFPO £54. SURFACE MAIL ROW & EUROPE: £60.00. AIRMAIL EUROPE £70.00. ROW AIRMAIL £90. See subs page for special offers.

© EMAP Images 1997. No part of this magazine may be reproduced in any form, either electronic or mechanical, or sold without the express written permission of the publisher. Cover disks remain the copyright of their respective suppliers and may not be duplicated, distributed or sold on without their permission. All material and prices are believed to be accurate at the time of going to press. CU Amiga Magazine attempts to maintain the highest standards, but cannot be held responsible for any errors, factual or otherwise which may have inadvertently crept into this issue. None of the reviews or previews in any section of this magazine constitute paid for or otherwise solicited advertisements for that product or supplier. CU Amiga Magazine is an independent publication and the opinions expressed by its reviewers are their own, free of any outside interference.

PRINTED IN THE UNITED KINGDOM BY SOUTHERN PRINT WEB OFFSET, POOLE.
 COVER DISK AND CD-ROM DUPLICATION BY DISKXPRESS

ABC January-June 1997 27,391

emap. images

Editorial



As 1997 ticks round to 1998, we thought it was time we took a look forward to the future, and also back to the past. Now it's only two years till the millenium, don't you think it's time you got your Amiga into shape and brought it bang up to date? We do, and that's why we've put together this Workbench 2000 feature - everything you need to transform your Amiga into the most user-friendly and powerful system on the planet (complete with all the software on the CD!).

Looking back, we take in the events of the last year and even get out those rose-tinted specs for a quick glance at the way we were five years ago. This month we also bid farewell to Mat Bettinson, CU Amiga's technical guru who has been lured off to pastures that are presumably greener. He doesn't get away that easily though and will still be contributing to CU Amiga on a monthly basis. So, all that remains is for me to wish you a merry Christmas and a very happy new year.

Tony Horgan, Editor

Cover feature

36 Workbench 2000

There's no need to wait around for Workbench 3.5 - we've got everything you need here to transform your Workbench into the most powerful operating environment you've ever seen. If you've got the CD edition you'll even find all the software on the disc. Either way this is the ultimate guide to customising your Workbench, from icon enhancements to system hacks, labour-saving add-ons to cosmetic overhauls. Your Workbench will be more attractive, easier to use, more powerful and frankly just more impressive than it's ever been before.



Feature

22 1997 Again...

What a year that was! As 1997 drifts into that cosy place we call history, we take a look back at the most eventful 12 months the Amiga has seen for a long time. We're still here, you're still here, and now the Amiga's back on track with Gateway 2000 the scene seems to be all the stronger for it. To get things into perspective we also look further back and recall what was going on five years ago. Those memories will come flooding back.



Feature

30 Remixing With The Pros

Pick up some tips from those masters of the tracker, Dex & Jonesey. We talk exclusively to the remix team's Andy McEniry to find out how they manage to consistently hit the top spot of the club charts with the most basic Amiga gear, along with a step by step guide to how they put together their latest club remix, Usura's 'Open Your Mind'.



News

10 All the latest developments on the Amiga scene, plus Stateside.

Games.....40

Screen Scene

- 40** Previews: What's Next?
- 43** Ultimate Gloom
- 44** Uropa 2
- 48** Shadow of the Third Moon

Tips:

- 50** Tips Central: arcade
- 52** Tips Centra: adventure

Tech Scene.....54

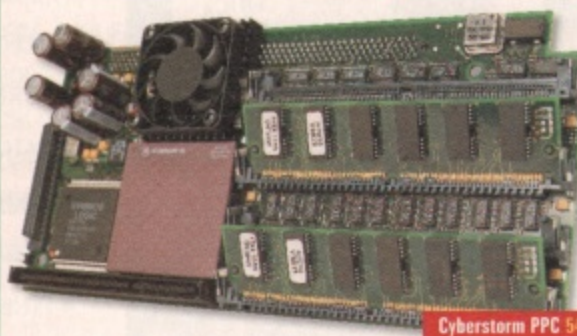
- 54** Cyberstorm PPC
- 58** Sound Probe
- 62** Picture Manager Pro
- 66** Apollo 630
- 68** Wildfire
- 70** Permedia 2 Preview
- 72** PD Scene
- 74** PD Utilities
- 78** CD-ROM Scene
- 80** Art Gallery

Workshop.....83

- 84** Imagine 4.0
- 88** Amiga C Programming
- 90** Next Month
- 92** Net God
- 92** Surf's Up
- 93** Surf of the Month
- 94** Wired World
- 91** Back Issues
- 96** Sound Lab
- 98** Desktop Publishing
- 104** Q&A
- 107** A to Z
- 108** Backchat
- 111** Subscriptions
- 112** Points of View
- 114** Mini Survey



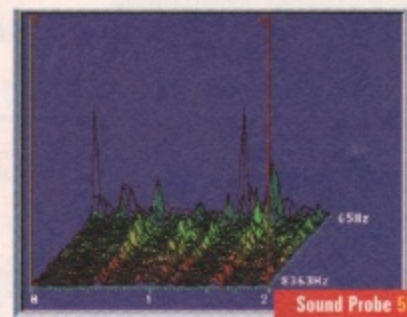
Shadow of Third Moon 48



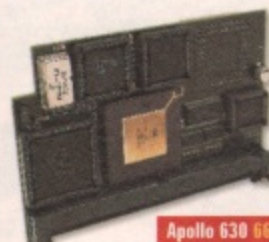
Cyberstorm PPC 54



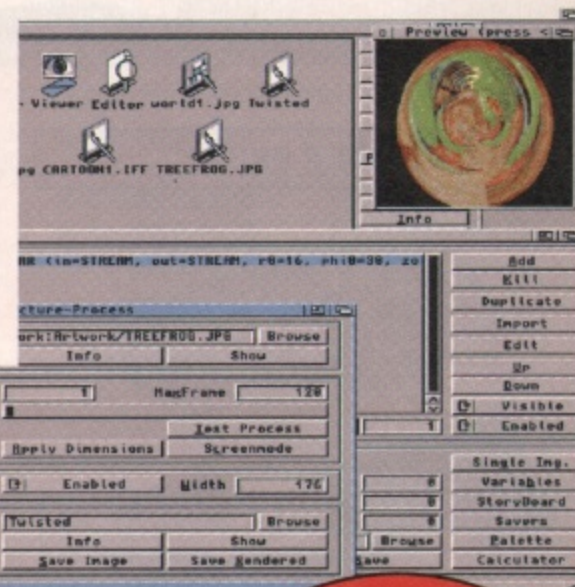
Art Gallery 80



Sound Probe 58



Apollo 630 66



Wildfire 68

Cover disks

20 Personal Paint 6.6

A fully working Personal Paint 6.6 is free with this month's CU Amiga, complete with loads of great new features including automated idiot-proof ARexx macros and lots more!

21 Trapped 3

The most technically advanced 3D game ever is here totally exclusively in a playable demo.

16 Super CD-ROM 18

100% full, featuring all of the above plus demos of Foundation, Sound Probe, Tornado 3D, Wildfire, over 80Mb of new samples, postings from the CU Amiga mailing list and all the software from the Workbench 2000 feature.



AMIGA

POWER COMPUTING ARE LICENSED TO MANUFACTURE THE AMIGA 3.1 OPERATING SYSTEM IN ENGLAND.



POWER

COMPUTING LTD

**NEW LOW
PRICES**

POWER ARE OFFICIAL SUPPLIERS OF THE AMIGA 1200



THE AMIGA MAGIC PACK INCLUDES:

- WORDWORTH 4.5SE (WORDPROCESSOR)
- TURBOCALC 3.5 (SPREADSHEET)
- DATASTORE 1.1 (DATABASE)
- PHOTOGENIC 1.2SE/PERSONAL PAINT 6.4
- ORGANISER 1.1 (PERSONAL ORGANISER)
- PINBALL MANIA (GAME)
- 2MB RAM 68020 14.3MHZ
- AGA CHIPSET

**FREE BREATHLESS
WITH ALL AMIGAS**



**A1200 MAGIC PACK
£209.95**

AMIGA BUNDLE ONE £269.95



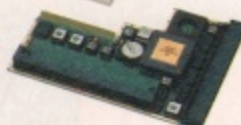
AMIGA BUNDLE ONE INCLUDES:

- AMIGA 1200 MAGIC PACK BUNDLES
- VIPER MKIV 68030 ACCELERATOR
- 4MB RAM INCLUDED

AMIGA BUNDLE TWO £459.95



**NEW LOW
PRICES**



AMIGA BUNDLE TWO INCLUDES:

- AMIGA 1200 MAGIC PACK BUNDLES
- BLIZZARD 50MHZ 68030 ACCELERATOR
- 8MB RAM INCLUDED
- INTERNAL 1.7GB HARD DRIVE

BESPOKE SYSTEMS AVAILABLE

WE CAN SUPPLY BESPOKE A1200 SYSTEMS INCLUDING 68060, TOWER UNITS - PLEASE CALL

A1200/3000 3.1 ROM
£45.95

A500/2000 3.1 ROM
£39.95

A4000 3.1 ROM
£45.95

AMIGA 3.1 OS
INCLUDES ROM CHIP,
SOFTWARE AND
MANUALS

A500/2000 3.1 CHIPS ONLY £25.95

A1200/4000 3.1 CHIPS ONLY £29.95

3.1 ROM CHIPS ONLY, NO DISK OR MANUALS

AMIGA BUNDLE THREE £689.95



AMIGA BUNDLE THREE INCLUDES:

- AMIGA 1200 MAGIC PACK BUNDLES
- BLIZZARD 50MHZ 68030 ACCELERATOR
- 8MB RAM INCLUDED
- EXTERNAL CD-ROM 2x
- FREE CD'S - GAMES
- INTERNAL 1.7GB HARD DRIVE
- AMIGA 3.1 OPERATING SYSTEM
- 33.6 MODEM, CABLE/SOFTWARE/SURF SQUIRREL

AMIGA

3.1 OPERATING SYSTEM



**NEW LOW
PRICES**

ALL PRICES INCLUDE VAT. E&OE.



Visit our NEW web site www.powerc.com

UNIT 82A SINGER WAY KEMPSTON MK42 7PU

01234 851500

FAX 01234 855400

**NEW LOW
PRICES**

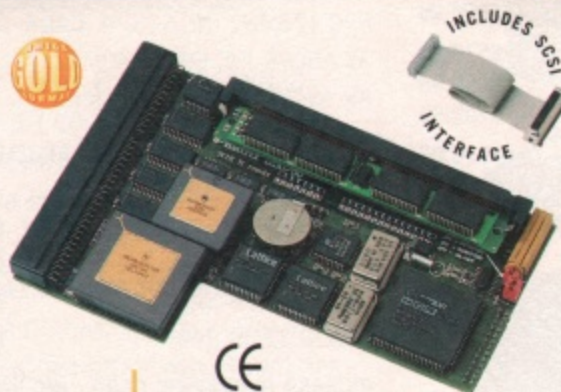


APOLLO 1240 25MHZ £139.95

APOLLO 1240 33MHZ £159.95

NEW VIPER MKV 1230 OMB £139.95

NEW VIPER 1230 INC. 8MB £179.95



CE
APPROVED

VIPER MKV FOR THE AMIGA 1200
68030 50MHZ ACCELERATOR BOARD
SCSI-2 INTERFACE ON-BOARD
SUPPORT UPTO 256MB OF RAM
FREE BREATHLESS GAME
FPU OPTIONAL

SPECIAL

OFFER

**FPU'S WHEN PURCHASED WITH
ANY ACCELERATOR BOARD**

20MHZ £10 (PLCC ONLY) 33MHZ £15 (PLCC ONLY) 50MHZ £29 (PGA ONLY)

WORDWORTH
£19
WITH THIS
BOARD
OFFICE 6 CD-ROM



NEW VIPER 630

40 MHZ

A600 ACCELERATOR BOARD
68030 40MHZ PROCESSOR
4MB OR 8MB ON-BOARD (NOT UPGRADABLE)
FPU OPTIONAL

A600 4MB 40MHZ
£99.95

A600 8MB 40MHZ
£119.95

WORDWORTH
£19
WITH THIS
BOARD
OFFICE 6 CD-ROM



NEW VIPER MKIV 42MHZ 4MB £79.95

FREE BREATHLESS

FOR THE A1200
VIPER MKIV 68030 42MHZ
4MB OF RAM ONLY (NOT UPGRADABLE)
FPU OPTIONAL



NEW VIPER 530

A500 ACCELERATOR BOARD
• 68030 50MHZ PROCESSOR
• SCSI-2 AND 2 x IDE INTERFACES
• UP TO 128MB SIMM SLOT
• 68000 MATHS CO-PROCESSOR

530 BARE £179.95 530 8MB £199.95
530 16MB £239.95 530 32MB £289.95



NEW VIPER 520CD £99.95

A500 ACCELERATOR BOARD
• 68020EC 33MHZ WITHOUT MMU
• PGA FPU SOCKET 33MHZ ONLY
• SPACE FOR IDE 2.5" HD
• 2 x 40-PIN CD-ROM/HD SOCKET
• 8MB RAM ON-BOARD
• 3.0 ROM INC. MANUAL/SOFTWARE
• FAT AGNUS SLOT FREE TO FIT MINI-MEGA CHIP RAM



MINI-MEGA CHIP
1MB **£99.95**



Visit our NEW web site www.powerc.com

UNIT 82A SINGER WAY KEMPSTON MK42 7PU



POWER

COMPUTING LTD

ACCELERATOR CD-ROM BUNDLES



THE POWER ACCELERATOR/CD BUNDLE INC.:

- EXTERNAL SCSI CD-ROM DRIVE
- OSCAR AND DIGGERS CD-ROM
- CHAOS ENGINE CD-ROM
- WORDWORTH WORD PROCESSOR CD-ROM
- ACCELERATORS INC. SCSI INTERFACE

VIPER 1230 WITH	BLIZZARD WITH
6x CD-ROM £249.95	6x CD-ROM £269.95
8x CD-ROM £269.95	8x CD-ROM £289.95
12x CD-ROM £319.95	12x CD-ROM £339.95

SIMMS PURCHASED WITH THIS BUNDLE ONLY
8MB £25 16MB £49 32MB £95

FREE BREATHLESS

A1200 4MB RAM CARD £49.95



4MB ONLY (NOT UPGRADABLE)

SPECIAL OFFER £14.95

CD-32 JOYPAD FOR USE WITH
OSCAR/DIGGERS + MANY GAMES

BIG RED
ADVENTURE



ONLY
£19.95
CD-ROM ONLY

01234 851500

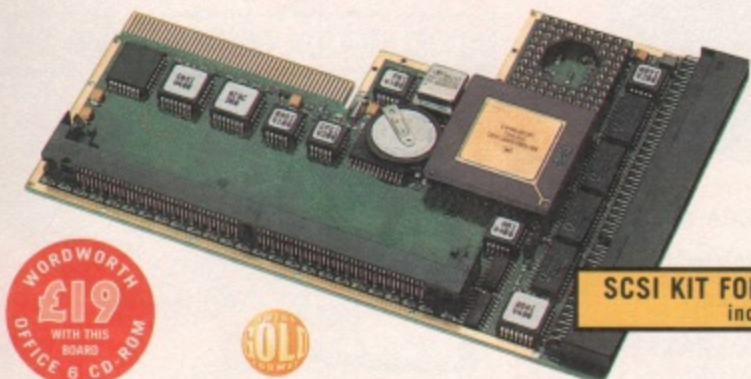
FAX 01234 855400

N/B HEAVY DUTY POWER SUPPLY RECOMMENDED

PHASE 5 CYBERSTORM POWERPC BOARDS (A3000/4000)

POWERPC INC. ULTRA WIDE SCSI-3, INC. MMU/FPU, NO 68K CPU

POWERPC 150MHZ NO 68K CPU	£489.95
POWERPC 150MHZ INC.68040/40MHZ CPU	£549.95
POWERPC 150MHZ INC.68060/50MHZ CPU	£699.95
POWERPC 180MHZ NO 68K CPU	£579.95
POWERPC 180MHZ INC.68040/40MHZ CPU	£699.95
POWERPC 180MHZ INC.68060/50MHZ CPU	£799.95
POWERPC 200MHZ NO 68K CPU	£679.95
POWERPC 200MHZ INC.68040/40MHZ CPU	£719.95
POWERPC 200MHZ INC.68060/50MHZ CPU	£879.95



SCSI KIT FOR BLIZZARD 1230/1260 BOARD £65.95
includes an extra simm socket on-board

CYBERSTORM POWERPC A1200 BOARD

603e POWERBOARD WITHOUT 68K CPU.	
175MHZ PPC MMU/FPU	£299
PPC 175MHZ INC.68030/50MHZ	£339
PPC 175MHZ INC.SCSI-II, BARE	£389
AS ABOVE INC.68040/40MHZ	£449
AS ABOVE INC.68060/50MHZ	£559

BLIZZARD 1230 MKV TURBO ACCELERATOR

68030 BARE 50MHZ	£95.95
68030 BARE INC. SCSI INTERFACE	£159.95
68030 8MB RAM	£125.95
68030 16MB RAM	£149.95
68030 32MB RAM	£209.95

PICASSO IV GRAPHIC CARD - INC 4MB RAM

PICASSO IV INC. 4MB RAM	£289.95
-------------------------	---------

CALL FOR MORE INFORMATION

BLIZZARD 1260 MKV TURBO ACCELERATOR

68060 BARE 50MHZ	£319.95
68060 BARE INC. SCSI INTERFACE	£384.95
68060 8MB RAM	£359.95
68060 16MB RAM	£389.95
68060 32MB RAM	£459.95

50MHZ FPU WHEN PURCHASED WITH THE BLIZZARD ONLY £29.95

CYBERVISION 64-3D GRAPHIC CARD

HI-RES 64-BIT GRAPHIC CARD FOR THE A2000, 3000(T), 4000(T) AND INCLUDES 4MB OF DISPLAY MEMORY

£159.95

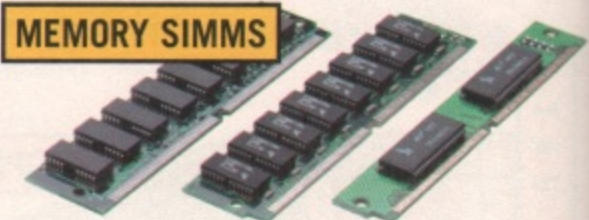
SCANDOUBLER CYBERVISION 64-3D FOR THE A4000(T) ONLY

£69.95

MPEG MOVIE MODULE

£129.95

MEMORY SIMMS



4MB 72-PIN SIMM

£15.95

8MB 72-PIN SIMM

£29.95

16MB 72-PIN SIMM

£55.95

32MB 72-PIN SIMM

£99.95

MEMORY PRICES FLUCTUATE DAILY - CALL TO CHECK LATEST PRICES

APOLLO 68060



66MHZ IS CLOCKED UP

68060 50MHZ

£279.95

68060 66MHZ

£319.95



GVP DSS-8 SAMPLER

£59.95

APOLLO 1240 25MHZ

£139.95

APOLLO 1240 33MHZ

£159.95



MEMORY CARDS

A500 2MB RAM CARD

£59.95

A500 MEMORY CARDS

A500 RAM EXPANSION 2MB £59.95



VIDEO BACKUP SYSTEM
BACKUP 520MB ONTO A
4HR VHS TAPE



GVP PRODUCTS

GVP IO EXTENDER	£69.95
GVP HC-8 SCSI INTERFACE	£99.95
GVP GURU ROM v6 NEW REVISION	£49.95
GVP DSS-8 SOUND SAMPLER	£59.95
GVP 4MB RAM MODULE	£59.95
GVP 16MB RAM MODULE	£99.95
GVP A1200 SCSI INTERFACE	£59.95
FOR ALL A1200 ACCELERATOR BOARDS	

MISCELLANEOUS

POWERTAB - GRAPHIC TABLET	£159.95
VIDEOBACKUP SYSTEM PHONO	£20.00
VIDEO BACKUP SYSTEM SCART	£20.00
ZIP RAM STATIC COLUMN PER MB	£16.00
BREATHLESS 3D GAME	£15.00

HARD DRIVES - INC. CABLE AND SOFTWARE

QUANTUM FIRBALL 3.5" 1.6GB	£159.95
QUANTUM FIRBALL 3.5" 2.1GB	£179.95
QUANTUM FIRBALL 3.5" 3.2GB	£199.95
1.3 GIGABYTE A1200 INT.	£129.95
2 GIGABYTE A1200 INT.	£159.95
STACK CABLE FOR ABOVE	£12.95



FREE TEN HD DISKS WITH THE XL DRIVE



INCLUDES ONE 100MB CARTRIDGE

FLOPPY DISK DRIVES - INTERNAL/EXTERNAL

A500 INTERNAL DRIVE	£24.95
A600/A1200 INTERNAL DRIVE	£24.95
A2000 INTERNAL DRIVE	£34.95
PC880E EXTERNAL DRIVE	£39.95

ALL OF THE ABOVE INCLUDE FLOPPY EXPANDER

HIGH DENSITY FLOPPY DISK DRIVES

XL 1.76MB EXTERNAL DRIVE	£65.95
XL 1.76MB INT. DRIVE A4000	£60.95

INC. FLOPPY EXPANDER AND 10 HDD DISKS

ZIP DRIVES - INC CABLE AND ZIP TOOLS

ZIP DRIVE 100MB SCSI*	£135.95
ZIP DRIVE INC. SQUIRREL	£169.95
100MB DISKETTE	£15.95

*REQUIRES SQUIRREL SCSI INTERFACE

NEW PSU



BWARE OF NONE CE PSU'S
"The Rolls Royce of PSU's"
AMIGA FORMAT

**HEAVY DUTY 200 WATT
POWER SUPPLY UNIT
ONLY £69.95**

OFFICIAL AMIGA MOUSE AND MAT

AMIGA MOUSE/MAT

£9.95



ACCELERATOR
£319.95
£384.95
£359.95
£389.95
£459.95

BASED
£29.95

ARD
FOR THE
INCLUDES
£159.95
64-3D FOR
£69.95
£129.95

£69.95
£99.95
£49.95
£59.95
£59.95
£99.95
£59.95

CARDS

£159.95
£20.00
£20.00
MB £16.00
£15.00

SOFTWARE
£159.95
£179.95
£199.95
£129.95
£159.95
£12.95

NE CE PSU'S
ce of PSU's"
RMAT

200 WATT
PLY UNIT
69.95

AMIGA

ducts come with a
s before ordering.

NEW LOW
PRICES

EPSON GT-5000 £219.95

GT-5000 + S/W £249.95



EPSON A4 FLATBED SCANNER
24-BIT COLOUR SCANNING
GREYSCALE AND LINE ART MODES
OCR SOFTWARE AVAILABLE AT £20

COLOUR SCANNER
£99.95



BLACK AND WHITE
£59.95

POWERSCAN BLACK AND WHITE
POWERSCAN 4, BLACK AND WHITE
HAND SCANNER WHICH INCLUDES
OCR S/W AND INTERFACE £59.95

POWERSCAN COLOUR
POWERSCAN 4, COLOUR HAND
SCANNER WHICH INCLUDES OCR
SOFTWARE AND INTERFACE.
AGA24-BIT/400DPI £99.95

NEW POWER CD BUNDLES



WORDSWORTH
OFFICE 6 CD-ROM
£19
WITH THIS
BOARD

BUNDLE WITH 6X CD
£149.95

BUNDLE WITH 8X CD
£169.95

BUNDLE WITH 12X CD
£189.95

THE POWER CD BUNDLE INCLUDES:

- SQUIRREL SCSI INTERFACE
- EXTERNAL SCSI CD-ROM DRIVE
- OSCAR AND DIGGERS CD-ROM
- CHAOS ENGINE CD-ROM
- PERSONEL WRITE - WORD PRO.

SPECIAL OFFER MODEM

OPTION ONE
£89.95

BT APPROVED
33.6BPS MODEM

NEW LOW
PRICES



OPTION ONE

- 33.6BPS MODEM AND CABLES • NET & WEB SOFTWARE • IBROWSE SOFTWARE
- ONE MONTH FREE WITH DEMON INTERNET PROVIDER

OPTION TWO

- 33.6BPS MODEM AND CABLES • NET & WEB SOFTWARE • IBROWSE SOFTWARE
- ONE MONTH FREE WITH DEMON INTERNET PROVIDER • WHIPPET FAST SERIAL INTERFACE FOR A600/A1200

OPTION THREE

- 33.6BPS MODEM AND CABLES • NET & WEB SOFTWARE • IBROWSE SOFTWARE
- ONE MONTH FREE WITH DEMON INTERNET PROVIDER • SURF SQUIRREL SCSI-2 SERIAL INTERFACE FOR A1200 PCMCIA CONNECTION

OPTION TWO
£109.95

OPTION THREE
£159.95

FOR CD-ROM OWNERS WHO HAVE A SQUIRREL INTERFACE AND ARE BUYING A MODEM WITH A SURF SQUIRREL, WE WILL BUY BACK YOUR EXISTING SQUIRREL - PLEASE CALL FOR DETAILS

VISIT OUR NEW WEB SITE - www.powerc.com



01234 851500

FAX 01234 855400



POWER

COMPUTING LTD

EPSON STYLUS PRINTERS

STYLUS 400 A4 720DPI COLOUR £175.95

STYLUS 600 A4 1440DPI COLOUR £239.95

FOR THE RANGE OF ACCESSORIES PLEASE CALL

PRINTER CABLE INC.

TURBO PRINT 5
£45.95

PRICE MATCH
WE WILL
MATCH ANY
LEGITIMATE
QUOTATION
PROMISE

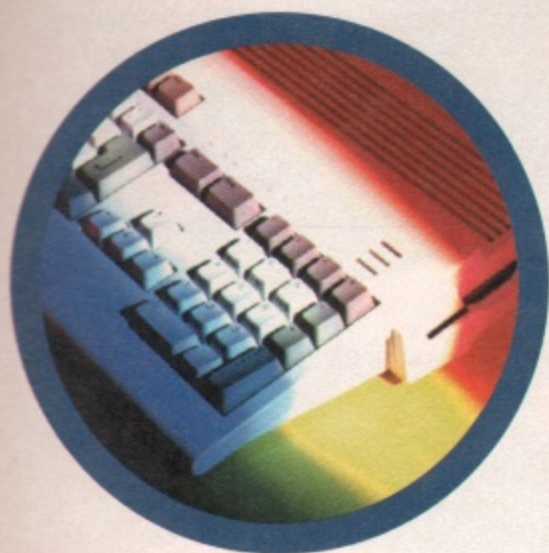
BREATHLESS
£15.95

UNIT 82A SINGER WAY KEMPSTON MK42 7PU

2-3 DAYS £5.00 ☐ NEXT DAY £8 ☐ SAT £15 ☐ SUBJECT TO PRODUCT AVAILABILITY

NAME _____	ADDRESS _____
POSTCODE _____	TEL NO. _____
ITEMS _____	
TOTAL (INC. DELIVERY) £ _____	CREDIT CARD NO. _____
EXPIRY ISSUE NO. _____	SIGNATURE _____

EXPORT ORDERS Most items are available at Tax Free Prices to non-EC residents. Call to confirm prices. BFPO orders welcome. MAIL ORDER TERMS All prices include VAT. Specifications and prices are subject to change without notice. All trademarks are acknowledged. All orders in writing or by telephone will be accepted only subject to our terms and conditions of trade, copies of which are available on request. Please allow up to 7 days for cheques to clear before despatching of the goods.



News

Computer '97 Special

The Computer '97 show held in Cologne over the 14-16th of November was being touted as the most important event for the Amiga in ages, and the promises weren't empty.

At this interesting and challenging time in the history of the Amiga, people visited the show from around the world to see what shape the future of the Amiga would take. Computer '97 is an all formats computer show, but there was no doubt that the predominant platform was the Amiga.

Tens of thousands of visitors crammed into the large halls in the Kö in Messe, the German Exhibition Grounds. The show was a buyer's dream, with countless software and hardware bargains, including '040 accelerator cards for under a hundred pounds and (small!) hard drives for as little as four. The real pull, however, were the new products displayed. These included some of the most significant developments the Amiga has seen in years.

There were a series of seminars held throughout the three days of the show, enlightening members of the public on a number of interesting topics such as Haage & Partner's Java Virtual Machine, Merapi, and Dr. Greg Perry's Directory Opus. The talk everyone wanted in on was the Developer's Conference, held on the Saturday night. Unlike previous developer's conferences, this one was used as an opportunity to let the industry take a look at the people who now run the company and see

what they are doing.

The Boing is back

The Stand attracting most of the attention was, unsurprisingly, the Amiga stand. A large hospitality room situated right in the centre of the hall was surrounded by stalls on which a number of companies had been invited to show their wares. At the front desk various members of

the Amiga, Inc. team stood around in their red and white boing ball T-shirts assuring everyone that the Amiga was back for good and handing out stickers. The new senior hardware engineer Joe Torre spent a lot of time demonstrating his Amazing Floating Boing ball trick to anyone who cared to watch.

Perhaps the development garnering the most attention on the Amiga

stand was the new Amiga compatible, the A5000. This computer is being developed by DCE in Germany, in co-operation with the U.K.'s Power Computing. It consists of a motherboard which is 100% Amiga compatible, and is baby AT size, designed to fit into a standard PC size tower case. The model on display ran a 68030 at 50MHz, but the final production model may have an updated





processor. There is also a 68060 version expected to come shortly. The beauty of the design is that it will be possible to sell cheap OEM Amigas built into towers with the specification the customer wants, standard PC parts being added as required.

The three Amigas

Just to prove that when you have to wait for ages three always come at once, Index Information were also on the stand, showing two entirely new Amiga compatible computers of their own. The first was the impressive

Access, the Amiga on a 5.25" card which is sold as a multimedia display solution for point of sale and information kiosk implementations, the second was the BoXeR, another baby AT card designed an OEM Amiga Clone board. The first run board, straight from the factory, arrived in Cologne on the Saturday and received more attention than is entirely healthy for a piece of printed circuit board.

Designed as an A4000 compatible high end solution, it is hoped that it will be priced between the A1200 and the A4000, but will provide excellent

Tomorrow's Amiga

The Power Computing/ DCE A5000 is an Amiga that looks like a PC. Designed to be a compromise between A4000 and A1200, it features a scan doubler for use with cheap PC monitors, optional modulator, 4 Zorro 2 slots, dual IDE interfaces, a bus slot for accelerators and an MPeg Module, a spiffing ATX case and a 68030 processor, with a 68060 version to come. Left, Tom Ianiri of Power Computing shows it off to hordes of impressed onlookers.



expansion options and performance significantly better than an A4000.

Amiga PCI!

Micronik occupied another corner of their stand with a selection of their new tower systems. Amongst the towers on display was one called the A1500 PCI.

In the past Micronik have shipped Zorro boards with a couple of PCI slots which allow their rather expensive PC motherboard to be connected in the same case. Perhaps people assumed that this was what Micronik meant, because this particular exhibit did not seem to get the attention it deserved.

A look into the innards of this innocuous tower revealed the truth: the display on the screen was being generated via an off the shelf industry standard S3 PCI graphics card of the kind PC vendors sell for around £30. Micronik say that this model should be ready to ship in a few months, the price to the end user being around 1750DM or £699.

Micronik told us that they will provide support for anyone wanting to provide driver software for any cards. If someone were to write CybergraphX / CyberGL for Riva 128, Voodoo 3dfx or Matrox Millennium based cards, these state of the art graphics cards could be used with an Amiga.

Similarly we could hope to see AHL drivers for the legendary Soundlabs sound cards, not to mention any number of cheap internal modems, communications

cards, interface cards and the like. Other developments from Micronik include a scandoubler designed to allow users to connect a standard PC monitor to their towers, which is expected to cost in the region of 150DM, £60.

Elsewhere on the stand were HiQ, wowing people with their Siamese Retarg system, with fast Amiga screens displayed in a window on a Windows 95 screen. Showing the ideal solution for Siamese systems were Eyetech, who's EZ tower is designed to take a PC motherboard and an Amiga motherboard in the same case.

A single slot Zorro with a graphics card was used. To solve the problem of the missing video connector which the A4000 uses to pass video data to a graphics card so that it can pass native video signals to a monitor as well as its own display, Eyetech had an automatic monitor switcher for owners of multisynch monitors.

Hot software

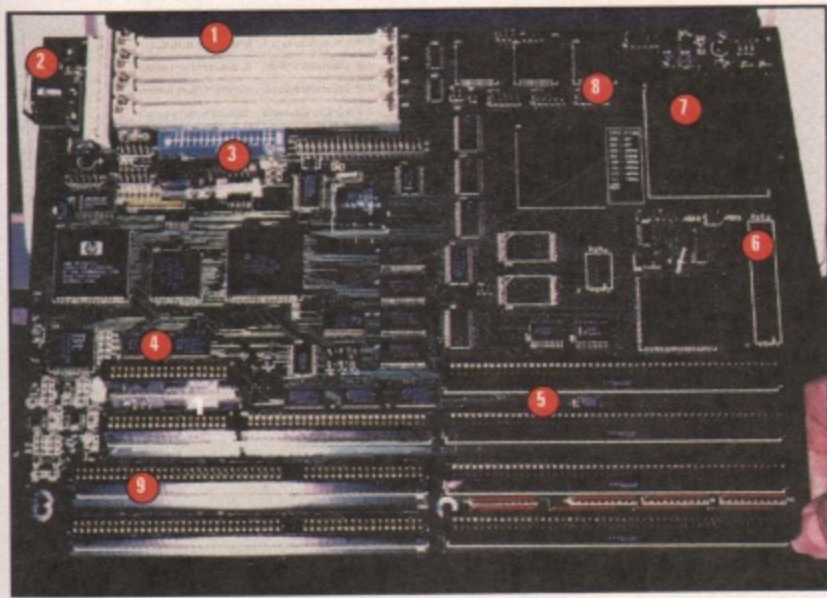
The range of software on show was impressive, too. Haage & Partner had Art Effect 2.5 running in all its 24 bit splendour with a pressure sensitive graphics pad, and were showing off the impressive looking Tornado 3D.

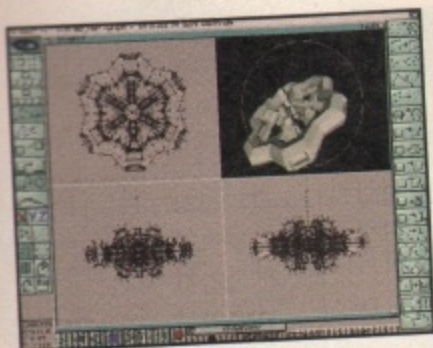
Holger Krüse was showing off the new features of Miami 3.0. Scala were there with their market leading multimedia authoring software, and software packages such as Netconnect could also be seen strutting their stuff.

Tomorrow's Amiga

Here's a look at the BoXeR from Index Information and Blittersoft. This cunning motherboard carries a wealth of features including :

1. 4 SIMM slots capable of accepting up to 2Gb of RAM
2. Autosensing PC/Amiga keyboard interface.
3. Floppy drive, buffered IDE, parallel serial and mouse/joystick ports.
4. AV slot with RGB, composite and stereo audio out.
5. 4 full Zorro II/III slots.
6. Multiprocessor interface slot for future expansion. First planned add-on is a "very cheap" PowerPC card.
7. CPU slot for any 68040 or 68060 chip.
8. Clock jumpers for selecting the speed of the CPU from 25-75MHz.
9. Active ISA slots for cheap modem, ethernet, sound cards etc.





▲ Haage & Partner's new 3D rendering package: the very nice looking Tornado 3D.

Light My Fire

Second only to the Amiga stand in

the interest it attracted was the phase 5 stand next door. A large booth plastered with "Light My Fire" posters advertising the PowerUp PowerPC cards boasted a sizeable video screen showing regular presentations of the PowerUp cards and a number of PowerPC equipped Amigas showing off what PowerPC could do. Several new applications running in PowerPC were being shown off, including Wildfire and Elastic Dreams PPC, a realtime morphing package similar to the famous PowerGoo for the PC and Mac.

The A1200 PowerUp card was on

show, although some finalising has still to be done. Fitted with two Simm slots, SCSI 2, a 603e and a 68060 processor, it's quite a crowded board, but phase 5 nevertheless found space on it to fit a feature connector on it for an A1200 version of the CybervisionPPC graphics card.

Although the graphics card itself was not on show, some idea of what could be expected could be seen on a Macintosh running a game on a PCI version of the card. The output was nothing short of superb, a fast, high resolution 3D display that updated very smoothly and quickly while

rendering complex textures and gouraud shading the polygons in real time. This offers important benefits to 3D rendering, as it will allow real-time rendered preview windows in rendering software, one of the new Lightwave features that Newtek has so far been unable to implement in an Amiga version. Equally exciting is the potential for 3D gaming that the board provides.

PowerUP A1200

Although the A1200 PPC card will initially be shipping with a 68060, phase 5 are looking at several possi-

Dev Con

Amiga Inc has, with the ICOA (Independent Council of Open Amiga), been running a series of developers conferences. They have been held on several occasions at Amiga shows, mostly in America, and have been occasions for developers to get together and discuss what was required for the future of the Amiga. AI have been dipping into this resource to find out what the guys who work with the computer every day think, and to help them plan their strategies for the future.

This one was always going to be a little different. Prior to the show, the rumour had been circulating that there was going to be a big announcement, widely presumed to be a commitment to a particular CPU for the future. Hundreds of people from the Amiga industry flooded into the large Seminar rooms to hear what was to be announced.

Petro Tyschtschenko opened with a run down of the licensing arrangements they had made, and mentioned that he hoped a deal with REC, who make the Chinese WonderTV Amiga system, would be struck soon. He talked about new hardware coming from Index, DCE and Quickpack, as well as license deals with Intrinsic, ELBox of Poland and ProSupport of South Africa.

Schindler's list - bad joke

Next on the stage was Jeff Schindler, the President of Amiga Inc., in South Dakota. He started by thanking Petro Tyschtschenko for



all his work, which raised a huge cheer. A lot of people were dubious about Petro T. after the Escom collapse, but his hard work during the legal proceedings and in getting Amiga International back on its feet since are clear to all, and have been to a large part responsible for the Amiga still being here today.

Jeff Schindler went on to introduce himself, an enthusiast whose first machine was a Commodore Vic20. "I started programming right away, and in about 4 hours..." he said, "I ran out of memory."

The hoped for Big Announcement never came, but telling statements were made about the future course of the Amiga. It was stated that the platform would be "...at or above" the industry standard for technology, and that the main job was to bring together all the best third party developments while defining a clear set of open standards. The idea is that products with the Boing Ball mark will be fit the standard, that you can be sure that any to Boing Ball marked products will be compatible, whoever makes them.

Nothing definite about future hardware choices were made, but the results of their surveys up to date were shown, and these give a strong indicator of what is likely. Support for the PowerPC as CPU of choice was unambiguous, but even more so was the idea that the Amiga OS should in future exist on more than one CPU. Strong emphasis was also put on extension of the Amiga's graphics, communication and multimedia capabilities.

Development roadmap

Jeff Schindler went on to talk about their plans for the immediate future, including a 3 year roadmap of development. The first job is to recruit a team, which will be done by searching for the top talent world wide.

Already a number of the big names of the Amiga's history have pledged their support as advisers, including Andy Finkel, R.J. Mical, Dale Luck and Carl Sassenrath. Following that will come OS upgrades and new releases, along with leveraging of AI's and Gateway's clout when dealing with other companies.

They have an approved budget until the year 2000 which will allow them to negotiate seriously with large firms for Amiga support, and, to help soften the concern many have about the failure of previous owners to market the machine, AI told us that their budget includes millions of dollars for advertising over the next three years.

Rolling investigation into internet support, GUI systems, bug fixes, driver support and so on will feed into OS support, initially with a release of a software only upgrade, OS3.5, but with more radical improvements to follow. The importance of upgrading the chipset was stressed, as was getting a new OS for the upgrade from AGA. All this, we were told, would lead to a major new release by the end of 1998. Petro Tyschtschenko summed it up best when he told the audience "I hope you will be here next year to see our new hardware..."



▲ Amiga Inc's Joe Torre shows off his coke bottle collection under Darrick Lisle's steely gaze.



▲ PowerUP for the masses – phase 5 showed us their A1200 PowerPC card, and here it is!

ble sources of very cheap 68040s, and a 68030 version of the card will be released in a few months.

Speaking to us about the future of PowerUP, phase 5 talked about the importance of the multiprocessor capabilities of the PowerUP system. The current range of cards multiprocess between the 680x0 and PPC603e/604 chip, but in the future expect to see cards with several PPC chips multiprocessing.

Adding a card with multiple 604 processors to an A4000 would turn it into a rendering engine of awesome power, at a price similar specification machines would find it hard to match. With the news that Newtek have taken a real interest in these developments and have announced they will continue to support the Amiga, it looks like there is at least one niche the Amiga is assured a bright future in.

Of course the PowerUP project is only the first step in Phase5's plans. Although nothing was on show, Phase5 were reminding everyone of their own Amiga based wonder computer, the A\box. Based around an advanced multimedia processor named after the national drink of Brazil, the Caipirinha, the A\box is intended to be the next generation



▲ Haage & Partner – they get their logo in the mag 'cos they bought us dinner.

of multimedia computing, and to prove it phase5 had a bar hidden inside their stand where they prepared Caipirinha cocktails, and very nice they are too.

Tower fever

The big hardware of the moment judging by what was on display is the tower conversion. Micronik had their own stand as well as their presence on the Amiga stand, where they did a brisk business with their tower kits, built systems and big range of tower accessories.

RBM showed off their Towerhawk towers, as well as their Zorro boards and accessories, many of which go to make up the Eyetech EZ tower. Eagle Computers GMBH had a wide range of tower cases on display, including some of their own A400Ts, while Apollo hosted the e\box tower conversion from Polish company ELBox computer. The e\box looks very nice and seemed to contain a lot of clever solutions, and we hope to look at one soon.

There was little new to be seen on the 680x0 series accelerator front, with the attention the PowerPC is currently garnering making it hard for people to produce anything with the older technology likely to attract too much attention.

The only obvious development on this front is the price. Although the basic cost of the chips acts as a drag factor on price reductions, this lower end technology has been plummeting in price of late and has been going for silly prices.

One stand was selling low end 68040 cards for under £100, and as rumours abounded at the show of suppliers with large stashes of old stocks being sold absurdly cheaply, we may well see that kind of price

becoming standard soon.

Other hardware developments were thin on the ground. Notable developments were from individual computers, whose Mark2 Catweazle controller has developed the impressive ability to read old style variable speed Mac disks on a normal floppy drive, and Village Tronic, who were showing off some of their long promised add on cards for the Picasso IV. The Pablo and Paloma video cards were joined by the concerto 16 bit sound card.

More hot software

The most talked about software package making its debut at the Cologne show was Amiga Forever, from Cloanto. This is actually a piece of software for the PC, not the Amiga. It consists of an Amiga emulator, a licensed OS3.1 ROM and networking software which allows you to treat the emulated system as a separate, networked solution. The demands of emulating the Amiga's custom chips is a huge drag on the PC, limited the package to OCS emulation, not AGA. The solution lies in an implementation of Picasso96 software which treats the PC's own display as a Picasso96 screenmode, giving quite an acceptable virtual Amiga.

Haage & Partner were there with a large stand showing off their own developments as well as various packages they have distributorship of. Notable packages on show were Tornado3D, an Italian 3D rendering package which looked extremely good, reminiscent of an attempt mix the best parts of Imagine and Lightwave, and Art Effect, the photoshop like 24bit graphics package which has reached version 2.5.

Haage & Partner were also busy promoting version 3.0 of their excellent StormC compiler, WarpOS, which they claim allows significant performance enhancements for PowerPC coding, and X-DVE and FontMachine from Italian software house Class X developments.

IrseeSoft had the latest versions of Turboprint and Picture Manager Pro, versions 6 and 5 respectively. Currently German only, but expect English versions very soon.

Turboprint has spawned text handling features for the Graphics Publisher and a photo correction system, while PMProwas showing a whole host of new features. This show will be looked back on as a landmark for the Amiga. The business, and the amount of selling done, will have no doubt been a great encouragement to many deal-

Tomorrow's Amiga

Take a peek into the innards of this Micronik A1500 and you will see the future. Those little white sockets are PCI slots and the card inside is a standard PCI graphics card, here being used to output the Amiga's display. This machine has a PowerPC CPU and PCI slots - what more do you need?



ers. A few visitors, on the other hand, voiced concern that there was not enough happening. Certainly the rumoured an much hoped for Big Announcement didn't happen, but one thing Amiga International / Inc. made clear is that they are serious.

It was a show in which a lot of impressive and important developments were there to see and touch, but the full ramifications of the show have yet to be seen. A lot went on behind closed doors and in hospitality suites, and a lot of hints were dropped. One thing this show made very clear is that if the Amiga is dead, it's the liveliest corpse you're likely to see. ■

Andrew Korn

Tommorow's Amiga

phase 5 were showing of the famous Caipirinha, but unfortunately only in the form of the cocktail, not the chip behind the A\Box.

1. Several ice cubes, crushed.
2. 3 limes, cubed and crushed to release the juice.
3. Pinga, a Brazilian rum.
4. Brown sugar.
5. Straw. Use this to stir first!





Coming soon from Sadeness Software, the ultimate Amiga CDROM games!

FOUNDATION

The Ultimate Amiga Strategy Wargame!

Due for release in November 1997. **Foundation** will set new standards for the Real-Time strategy war/conquest games! Featuring many unique features not seen in any game for any platform!

Combining the very best elements of **The Settlers 2**, **Warcraft 2**, **Command and Conquer**, **Megalomania** along with some totally original ideas and features - **Foundation** will set new standards for strategy games on all computers.

Brief Feature List:

- ECS, AGA and CyberGFX fully supported.
- 1 player versus 1, 2 or 3 computer controlled players.
- over 800 frames rendered intro
- Full control over every friendly unit
- Random level generator for infinite levels!
- Custom made 24bit quality mission/menu screens.
- Advanced enemy Artificial intelligence.
- Realistic rendered objects such as trees, rocks etc.
- Serial and TCP/IP links planned
- 2 player Split-Screen mode.
- Over 50 meg of Sound and Graphics.
- Comes with a Map/Mission editor.
- Extensive full-colour on-line manual/help.
- Mug-Shots included from Amiga owners!
- Advanced Fire/Smoke/Shadow effects.
- High-Res graphics-absolutely amazing!

If you would like to be one of the very first owners of this massive new Amiga game, you can fill in the pre-order form below (NOTE: No money will be debited until your order is sent!). This will ensure that your order is despatched on the very day of release!

Release Date: January 1998 • £29.95 inc p&p • <http://WWW.sadeness.demon.co.uk/foundation.html>
SYSTEM REQUIREMENTS: Any Amiga - 2 Meg RAM minimum Double-speed CDROM. AGA and Graphics cards fully supported and enhanced



Incredibly detailed H-Res graphic



Stunning 24bit intro/menu screens!



Full battle and management control!

ON ESCAPEE

Due for release in October 1997. **onEscapee** will set new standards for Action/adventure games!

Combining the very best elements of classic games as **Prince of Persia**, **Another World** and **Flashback** along with some totally original ideas and features - **onEscapee** will set new standards for action/adventure games on all computers (PC and Amiga versions under development).

Brief Feature list:

- AGA required and CyberGFX support planned.
- 5 minute long, atmospheric 9meg Intro!
- 100% multi-tasking system friendly.
- Incredible, atmospheric digital music score!
- Cave, City, Underwater and space levels + more!
- Control choice of Keyboard, Joystick or Joypad.
- A great variety of different enemies - with intelligence.
- 4 years in development by a large team!
- 100% pure assembly language
- Thousands of hand-drawn animation frames!
- Can be used on Double-scanned screens.
- Complex animations are custom-rendered!
- Logical puzzles
- Full use of AGA chipset - using 256 colours.
- Rippling water, sweeping light beams etc.
- Amazing film-quality cut-scenes!

If you would like to be one of the very first owners of this massive new Amiga game, you can fill in the pre-order from below (NOTE: No money will be debited until your order is sent!). This will ensure that your order is despatched on the very day of release!

Release Date: OUT NOW!! • £29.95 inc p&p • <http://www.sadeness.demon.co.uk/foundation.html>
SYSTEM REQUIREMENTS: Any Amiga - 4 Meg RAM minimum. Double-speed CDROM or better. Graphics card support planned for the future.



Full 256 colour AGA graphics



600+ frames of character animation!



Full atmospheric digital music score!

IF YOU WOULD LIKE TO PLACE AN ORDER FOR EITHER GAME OR RECEIVE MORE INFO ABOUT THEM - PLEASE TICK THE CORRECT BOX, AND FILL-IN YOUR DETAILS. Please send completed form (telephone/email us) to: Sadeness Software - 13 Russell Terrace - Mundesley - Norfolk - NR11 8LJ - UK Tel: (01263) 722169

Place a Pre-Order for **FOUNDATION** ☐ Recive further info about **FOUNDATION** ☐ Place a Pre-Order for **onEscapee** ☐ Receive further info about **onEscapee** ☐

Please fill in your details in BLOCK CAPITALS. Thanks.

Name	Address	Postcode	Country
Credit Card Number	Card Expiry Date	Issue Number (Switch only)	
Telephone Number	Email		



by Jason Compton: Editor in Chief of Amiga Report Magazine

Stateside News

Ohio Fallout

November was ushered in with the latest installment of the Midwest Amiga Expo (MAE), held by Columbus Ohio user group Amicon.

Quite a lot of activity and life packed into a show bigger than its predecessor twelve months ago. Although Newtek did not appear as they were once expected to (more about them later), there was plenty of activity to keep the visitors busy.

Perhaps because of the drought in Amiga shows over the past several months in North America, the developers who came were pushing to be noticed. Nova Design continued their push of the new Aladdin 4D and ImageFX, although at the time there was no discussion of the impending 3.0 update for the latter. If you were looking for Internet connectivity, representatives for AEMail as well as for the



new Finale Development net utilities were on hand, and Gamasoft held a talk session to tell you how to put it all to work. Asimware showed off their latest version of MasterISO, which by all appearances should make creating and copying CD-ROMs easier than ever.

While not present, Newtek's products were not totally unrepresented – TUGALUG, a Toaster/Flyer user group – had demonstrations running over the course of the week-end, and Prowave was ready to sell you a variety of tutorial tapes for Lightwave.

In a revival that I hope we see more of, a full version of Kidstop, an educational package that succeeds in being entertaining without being pedantic, was on offer.

While the display unit had a touchscreen, Kidstop can be driven with the mouse (which more and more children are learning to use at early ages). And while making the trek overseas was unfortunately too much to ask for the European developers, particularly with Computer '97 looming just two weeks away, some relatively new products poked their heads out at the MAE courtesy of some enterprising retailers.

Wonder Computers brought a hefty supply of the new Delfina Lite DSP sound board, and the new 16-bit sound daughtercard for the Picasso IV did make an appearance as well.

Ohio players

Of course, Eric Schwartz, an Ohio resident, made it to the show and delighted audiences with his legendary animations, put up on 20 inch monitors.

The convention hall was rounded out by a variety of other exhibitors, ranging from sysops with everything from soup to nuts for sale to full-time retailers. And then, of course, they had to let the people in. It did get somewhat cramped at times, and a patron on a Rascal nearly bowled several people over on numerous occasions as he tore through the proceedings, but no fist-fights erupted.

Petro performed his duty as head of state and gave the opening address for the show, in which he gave out suitable amounts of flattery and thanks to the crowd, invited everyone to come to Germany for Computer '97, and shared the information about the DCE line of Amiga clone computers being developed under license.

It was the first many had heard of the machines, and of course Petro was rewarded with applause. He was fairly straight with everyone early on in making it clear that he was not going to deliver any earth-shattering information.

On Saturday night, Joe Torre

from Amiga, Inc. along with Kermit Woodall of Nova Design and the ICOA's representatives in Fleecy Moss, Dean Brown and Andy Finkel attempted to hold a meeting of developers, which unfortunately broke down rather quickly from its intended purpose. Hopefully, these things will be handled with a little more advance planning, RSVPing, and screening of credentials in future.

Newtek Bawl-out

In the November issue, I mentioned that every week a rumour starts that Newtek is dropping Amiga development. Right on schedule, it happened again, as a result of some poorly chosen words and a lot of fuel thrown on the fire by rash souls. It seems that at the recent Newtek Expo, Newtek's CEO made a remark in a somewhat private setting that the Amiga Flyer development team was currently engaged on another project.

Once this remark was repeated, it quickly blossomed into "Newtek has cancelled its Amiga development" which quickly blossomed into "Newtek has dropped all support for its Amiga products". The public outcry and confusion got so great that finally Newtek's CEO as well as its founder, Tim Jenison, issued statements making it clear that there had been a misunderstanding, that the Flyer team had been reassigned to another

project for the time being but that Newtek and the Flyer team had every intention of going back to the Amiga work in due course.

It seems that the talent was needed elsewhere, and a Flyer software update had just been completed, making the programmers available for the time being.

Advertisers Index

Active Technologies	34-35	01325 460116
Analogic	82	0181 546 9575
Blittersoft	26-27	01908 261466
Care	71	01923 894064
Classified	100-103	0171 972 6700
Dart	35	0116 247 0059
Enterprise Plc	71	01624 677666
Epic Marketing	46-47, OBC	0179 3490988
Eyeteck	29,33	01642 713 185
First Computer Centre	60	0113 231 9444
Gasteiner	IBC	0181 345 6000
Golden Image	103	0181 900 9291
Harwoods	64-65, 76-77	01773 490988
Hi Q	67	01525 211327
Owl Associates	71	01543 250377
Power Computing	6-9	01234 851500
Sadness	14	01263 722169
Selectafont	53	01702 202835
Siren Software	19	0161 796 5279
Special Reserve	53	01279 600770
Weird Science	IFC-3	0116 246 3800
White Knight Technology	87	01920 822321
Wizard Developments	56	0181 303 1800



CD-ROM

Super CD-ROM 18



Welcome to CUCD18. This CD is crammed full of programs, games, utilities, mods and a host of other goodies. If you don't yet have a CD drive, this is your reason to buy one. Prices have never been lower and 650Mb of quality software each month is just too good to miss out on.

How much is there?

Personal Paint.....	1.6Mb	Graphics	25Mb
Foundation.....	22Mb	Magazine.....	30Mb
Trapped3	3Mb	Online	50Mb
CDSupport	60Mb	Previews.....	65Mb
CUCD	508Mb	Programming.....	10Mb
		Readers	90Mb
CDROM	15Mb	Sound	115Mb
Demos	6Mb	Utilities.....	50Mb
Games	7Mb	WWW	45Mb

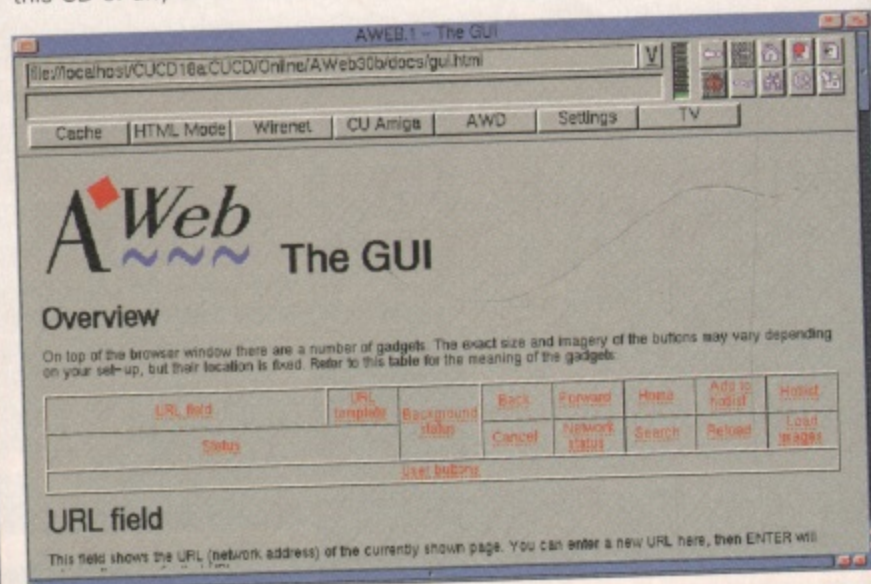
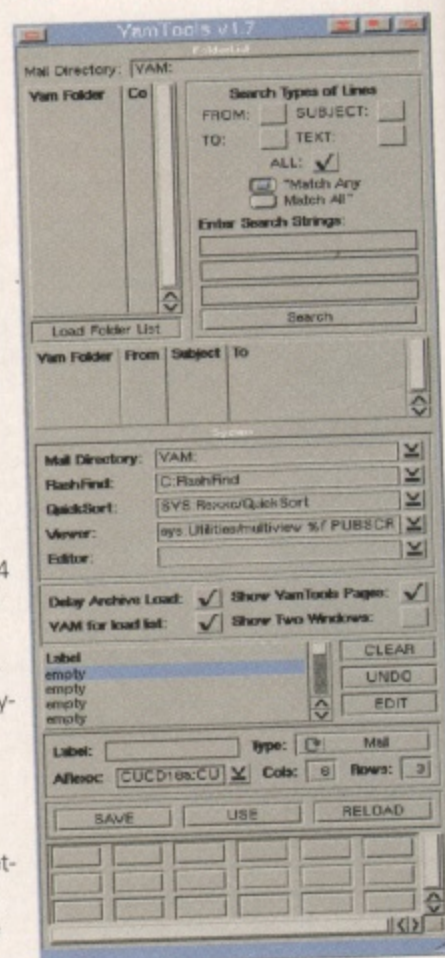
Making the most of CUCD18

All CUCDs are designed to be used whether you boot from the CD or your normal Workbench. If you boot from the CD, everything is setup and ready to go. If you want to access the CD from your Workbench, you should first run InitCD. This sets up various assigns and paths needed by programs on the CD, so if you don't do it, things won't work. It doesn't make any changes to your system, or write any files to your hard drive, all changes are temporary and can be reversed by running InitCD again.

Your own custom CD

In the past you had to use whatever file viewers we set up on the CD, since these had to work with all Amigas they were quite limited. From CUCD12 we decided to allow you to specify how the CD should work on your Amiga and included CDPrefs in the CDSupport drawer. If you have never run this before you should be asked if you want to when you run InitCD. CDPrefs lets you specify which program you want to use to handle each type of file, graphics card users can view pictures in full 24 bit colour, ProjectXG users can listen to midi files through their midi card and people with sound cards can listen to mods with an AHI module player. It also means we were able to provide different defaults for Workbench 2.x users.

Once you have run CDPrefs, your setting will be saved to your hard drive and will be used every time you use this CD or any other CUCD.



Highlights of CU Amiga CD 18



These are a few highlights of CU Amiga CD 18. The more time you spend looking through the CD, the more you will find.

Foundation demo

Try out this brilliant new strategy game for yourself. There's instructions on the CD.

Graphics/Wildfire

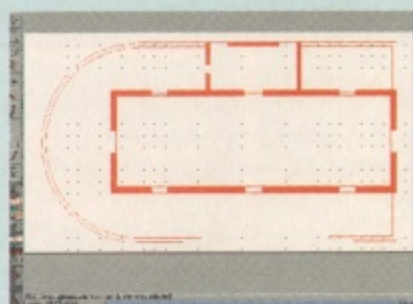
A new version of this effects processor that now works with a PPC as well as the standard Amiga CPUs. Wildfire was used to create several demos of extremely high quality that have appeared on previous CDs, with the power of PPC behind it you can expect to see some even better ones soon.

Graphics/MagnifiCAD

A full-featured Computer Aided Design (CAD) program. This is a demo version with a few limitations, but it is still very usable.

Magazine/Ultimate WB

All the utilities referred to in this month's Ultimate Workbench feature. There is every thing you need to make your own Workbench faster, more efficient, more attractive and, most importantly, your



own. If you need inspiration, we

have also included a selection of screenshots of different workbench setups in the WBPix drawer.

Online/Eucalyptus

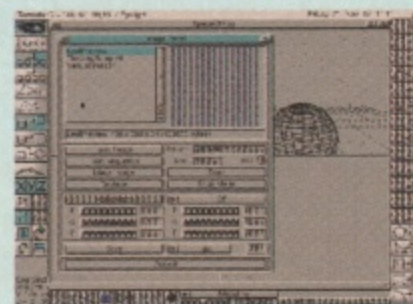
Development continues on this new email client. Using ClassAct it has a very friendly interface.

Online/AWeb

A new version of AWeb 3.0 was released recently. The demo version is included here. In the WWW drawer there is a special CU Amiga version that has all the features of the full, commercial, AWeb, but for local pages only.

Online/News

A selection of last month's posting to the various Amiga newsgroups, plus a full archive of the month's postings to the CU Amiga mailing list. Anyone who posted to the list last month can look back and think



"Did I really say that?!!!"

Online/YamTools

Using MUIrexx (as used for CDPrefs) this program adds extra features to the YAM email program.

Previews/Tornado3D

This is a special demo of the new 3D rendering program, tornado3D, complete with a tutorial specifically written for CU Amiga readers.

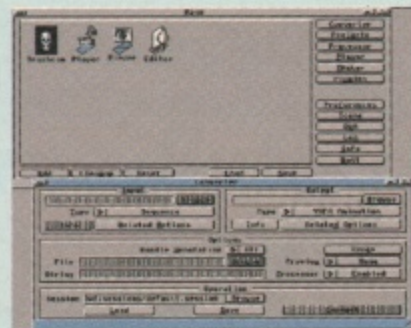
Previews/Strangers AGA+Uropa2+FinalOdyssey

Previews of three new games from Vulcan Software

Programming/AmigaE

E is a very popular programming language for the Amiga, with the power of C without the difficulty. It has been a long time since the last update, but here it is at last.

Sound/Samples/



WAVbeats

This is a massive collection of 16 bit samples, in WAV format. They are included for use with the sound articles in this month's magazine, but can be used with any program that supports 16 bit samples, such as SinED.

Sound/SinED

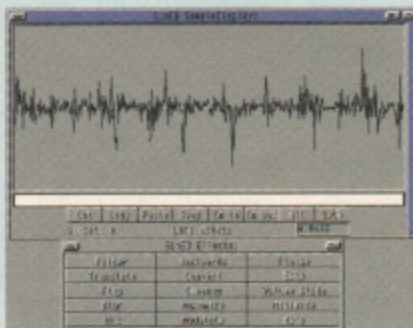
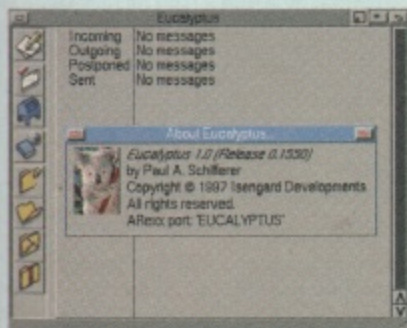
Another powerful sample editor. With this one and SoundProbe in the Magazine drawer, sample fans are having a bumper month with this CD.

Utilities

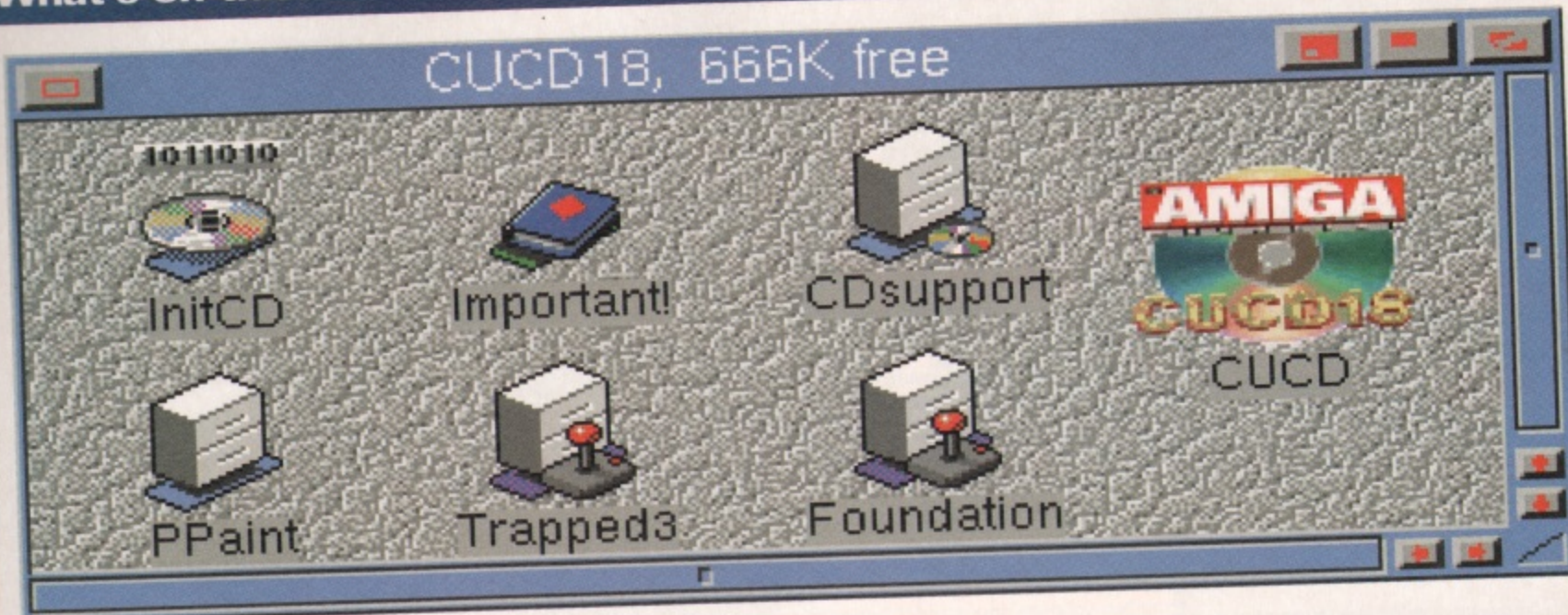
The Utilities drawer contains so many different, and useful, utilities that it wouldn't be fair to select one or two as highlights. There really is something for everyone in here. Make sure you check out the commodities and Blankers drawers, and Directory Opus users can find the latest program updates, and a few other goodies, in their drawer.

WWW

A selection of sites from the World wide Web, including CU Online.



What's on this month's CU Amiga CD?



PPaint: Version 6.6 of Personal Paint, a special created just for CU Amiga. This is a much enhanced version of 6.4, containing many of the features present in the latest version 7.1. But you get this one for free!

Trapped 3: A brand new 3D texture-mapped game. This was rushed here from the Computer 97 Show in Cologne, just in time to go on this month's CUCD, making sure you have it in time for Christmas.

Foundation: CD users get the bonus of another brand new game. This is a special demo of the yet-to-be-released Foundation. It will run on a 2Mb A1200, but really benefits from more RAM and a faster processor. It needs either AGA or CyberGraphX/Picasso96 on a graphics card. Foundation needs to be run from hard drive, just drag the entire Foundation drawer onto your drive, you will need about 22Mb of free space.

CDsupport: This contains various support files, such as mod players, anim players, GMPlay, MUI, ClassAct. Most importantly, this is where the CDPrefs program lives. With this you can customise your CUCD to launch your choice of program for each type of file.

CUCD: The CUCD drawer contains most of the CD contents, here is a selection of some of the contents.

CDROM: An update to AmiCDFS, the recommended CD filesystem for use with CUCDs. Full indexes to all the Aminet CDs, with a useful search tool. An even

larger collection of CDIDs, now archived with lha for faster copying to your hard drive and a converter to use these CDIDs with AsimCDFS. Discus is another audio CD player.

Demos: Only three demos this month, all require AGA and a fast processor certainly helps. The demo scene seems to have been a bit quiet this month, but expect some major demos in coming months.

Games: Another selection of joystick breakers, worms levels and cardsets. Also a couple of Star Trek variants and a database on the Star Trek shows and films. There are not as many games in here as normal, but there are several major games elsewhere on the CD, and a few more in the Readers section.

Graphics: This month we have a demo of WildFirePPC and an excellent CAD program, MagnifiCAD. There is a further collection of ARexx scripts for DrawStudio and some very detailed Lightwave objects of the Earth and Moon. There are also a few more icons and backdrops, just in case you didn't get enough last month!

Magazine: This drawer contains all the support files for articles in the magazine. The source code for the C tutorials, demo ver-

sions of PicManager, SoundProbe and WebPlug, some AIRlink and PPC extras, and all the utilities for the Ultimate Workbench.

Online: Archives from the last month's postings to the CU Amiga mailing list, together with a selection of news from the Amiga newsgroups. Web page and graphic design tools, a mailing listserv and an IRC bot. Also the latest Aminet index.

Previews: Special previews of Final Odyssey, StangersAGA and Uropa2. A demo of a new 3D rendering package, Tornado3D. This was especially created for CU Amiga, with an extra tutorial written just for you. There is also a large selection of demos from F1 Licenceware.

Programming: A new release of Amiga E, the popular programming language for the Amiga. Also on the CD is ARexxGuide, a complete guide to programming in ARexx in AmigaGuide format, ModemLink for making modem linkable games and ClassMate for creating ClassAct GUIs.

Readers: A bumper collection of programs, games, mods, anims and pictures, sent in by CU Amiga readers. Is your work here?

Sound: Most of the Sound drawer is taken up by a huge collection of samples, to go with this month's fea-

tures. You also get new versions of HippoPlayer, SinED and AHL, the retargetable audio system.

Utilities: A large collection of utilities this month, with over seventy items. This includes the latest updates for Directory Opus Magellan, Workbench enhancements, commodities and screen blankers.

WWW: Demo versions of the big three browsers, with a special version of AWeb. A selection of web sites to view with them, including Football and Astronomy sites, in addition to a selection of Amiga related sites.

Disk doesn't load?

If your CD does not load contact DiskXpress on 01451 810788. If they advise that the CD is faulty send it along with a SAE to: CU Amiga Magazine Disk Returns, DiskXpress, 7 Willow Court, Bourton Industrial Park, Bourton on the water, Gloucestershire GL54 2HQ.

Please note that some of the CDs will not autoboot on systems other than CD32s, so try loading it from Workbench first.

CUCDs will work with almost all Amiga configurations and filesystems. However, we recommend older CD filesystems be replaced where possible. A non-working program is *not* an indication of a faulty CD!



NEW LOW PRICES!!!

TOTAL SCSI CD-ROM DRIVE



Fully featured SCSI CD-ROM drive for use with the A1200 or A600 including:

- Superb metal enclosure with in-built mains power supply
- All software, cables and instructions for immediate use
- Full CD32 emulation and Audio CD player software.
- Easy PCMCIA fitting Squirrel interface

Prices include Squirrel. Add £30.00 for Surf Squirrel

4 SPEED ONLY

£129.99

8 SPEED ONLY

STAR VALUE £149.99

ALL CD ROM DRIVES NOW INCLUDE 3 CDs: EPIC ENCYCLOPEDIA, TOP 100 A1200 GAMES and WORLD OF A1200.

NO EXTRAS NEEDED... JUST PLUG IN & GO!!

TOTAL MEMORY EXPANSIONS



A1200 trapdoor fitting memory expansions feature:

- A battery backed clock
 - A socket for an accelerator FPU
- Unlike other memory expansions that conflict with the PCMCIA port, our TOTAL memory expansions include unique software that will enable the maximum amount of memory to be used even with a PCMCIA fitting device.

4MB MEMORY EXPANSION

£69.99

8MB MEMORY EXPANSION

£99.99

33MHZ 68882 FPU (PLCC)

STAR VALUE £19.99

NEARLY DOUBLES THE SPEED OF THE A1200!!

APOLLO A1200 ACCELERATORS

APOLLO 1230 LITE

High quality low cost 68030 accelerator with:

- MMU and FPU all running at 33mhz.
- Built in battery backed clock.
- Easy trapdoor fitting.
- 4MB.

AMAZING PERFORMANCE FOR SUCH A LOW PRICE!!



INCLUDES 4MB FREE!!

APOLLO 1230 PRO

All the features you asked for at an affordable price!

- High performance 68030 with FPU and MMU running at 40mhz.
- Two 72pin SIMM sockets can take upto 32mb each. Simms can be mixed (i.e.a 4mb and 8mb will give 12mb) and can be single or double sided.
- Fully PCMCIA compatible regardless of how much memory is fitted.
- Easy trapdoor fitting with battery backed clock

APOLLO 1240/1260

68040/68060+MMU based A1200 accelerator.

Features include:

- Battery backed clock.
- 72 pin socket for a standard 72 pin SIMM (up to 128mb).
- Fully featured, fan cooled trapdoor fitting accelerator.



APOLLO 1230 LITE

£99.99

APOLLO 1230 PRO

£129.99

APOLLO 1240/25

£164.99

APOLLO 1240/40

£224.99

APOLLO 1260/50

£339.99

4MB SIMM

£15.99

8MB SIMM

£29.99

16MB SIMM

£55.99

32MB SIMM

£99.99

STAR VALUE

HARD DRIVES

Our high speed 2.5' IDE hard drives for the Amiga A1200 & A600 computers come complete with:

- Fitting cable, screws, partitioning software, full instructions
- 12 months guarantee.
- All drives supplied by us are formatted, partitioned and have Workbench (WB2 for the A600 and WB3 for the A1200) installed for immediate use.

Fitting is incredibly simple; If you can plug the mouse into the mouse socket, you can plug the hard drive into the hard drive socket.

FREE WHILE-YOU-WAIT FITTING SERVICE FOR PERSONAL CALLERS. PLEASE PHONE FOR APPOINTMENT.

FREE 'HOW TO FIT YOUR HARDDISK' VIDEO & STAKKER DISK



85MB

£79.99

340MB

£109.99

540MB

£119.99

810MB

£139.99

1000MB

£164.99

1600MB

£194.99

STAR VALUE

ALSO AVAILABLE

A600/A1200 INTERNAL FLOPPY DRIVE	£44.99
MOUSE	£12.99
3.5' HARD DRIVE CABLE	£17.50
2.5' HARD DRIVE CABLE	£9.99
FRESH FONTS CD	£19.99
AMIGA POWER SUPPLY	£34.99
SQUIRREL	£49.99

SURF SQUIRREL	£89.99
CLOCK CARTRIDGE	£19.99
EPIC ENCYCLOPEDIA CD	£19.99
50mhz FPU (for blizzard 1230)	£44.99
WORLD OF A1200 CD and TOP 100 A1200 GAMES CD	£14.99 EACH or both for £19.99.
ANTI-VIRUS & X-COPY	£19.99 EACH or both for £24.99

Order NOW for immediate despatch

FREEPHONE 0500 340548

For enquiries Tel: 0161 796 5279 or Fax: 0161 796 3208 Access, Visa, Switch, Delta, Connect etc accepted Send cheques or postal orders (made payable to Siren Software) or credit card details to: SIREN SOFTWARE, 178 BURY NEW RD, WHITEFIELD, MANCHESTER M45 6QF, ENGLAND. All prices include VAT. Postage and packing will be charged at £3.50 per order (U.K.), £7.50 Europe and £12.50 rest of the world. OPEN: Monday to Friday 9am to 6pm Saturday 9am to 12pm Personal callers welcome. Please phone first to check availability of any item. DIRECTIONS: From the M62 Junction 17 head towards Bury. We are 50 yards on the right hand side after the third set of lights. The door to our premises is next to Polar, opposite The Masons Pub.

(credit/switch card sales only).

COVER DISKS

Personal Paint 6.6



Welcome to **Personal Paint**, one of the most powerful and best supported paint and animation packages on the Amiga today. Before you

settle in and start creating your own masterworks, there's a few basics you might want to have sorted out first.

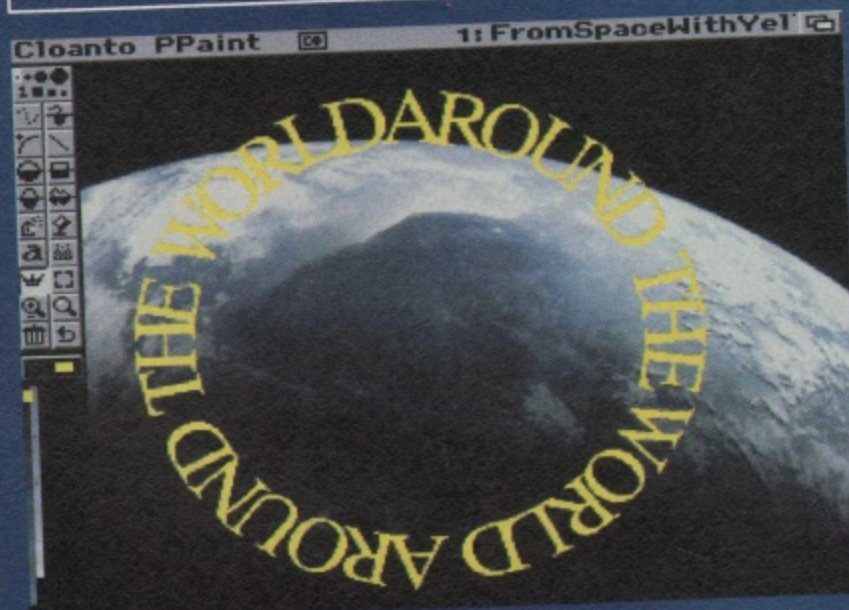
Loading instructions

Personal Paint: you can run this straight from disk 172 after booting from your hard drive. To install it to your hard drive, make a drawer called PersonalPaint6.6 on your hard drive and then copy everything from disk 176 into there. For example:

```
(open a CLI or Shell)
cd work:
mkdir PersonalPaint6.6
copy df0:#? work:PersonalPaint6.6
```

That assumes that the partition on which you want PPaint installed is called Work:. Change this to your preferred partition if you have named your hard drive differently.

You'll find three pictures on the Trapped III disk to get you started.



▲ Here's a new trick: circular text is just one of the automatic tasks available from the new range of ARexx macros – don't worry, no ARexx knowledge is required though!

If you're comfortable using another Amiga paint program such as Deluxe Paint or

Brilliance, you're in good shape as Personal Paint has modeled its interface closely after DPaint, and users of Brilliance should be familiar with the same concepts. PPaint's power in some areas goes far deeper, but first things first.

New since 6.4

PPaint 6.6 offers a number of enhancements over earlier versions. In particular, PPaint now has an ARexx interface to allow for powerful effects, supports more image formats without the need for datatypes, and has built-in "CycleToMenu" and "PopMenu" gadget capabilities.

The interface

Keyboard shortcuts abound for most anything you could do in PPaint, but since you're going to be drawing with the mouse anyway it's best to start out using the icon and menu controls, although one important key to remember is Shift, which restricts your mouse movement to 90 degree angles (strictly horizontal or vertical) – this can come in very handy for lots of things.

On the left side of the screen is your toolbar, which leads down to the palette selection. As well as the

toolbar you've also got the Personal Paint menus...

Project From here, you manage the large details – what image to work on, what format to save in, and what screenmode to work in. This is also one of the ways to access PPaint's powerful Image Processing mode.

Brush PPaint's brush handling, to allow the creation and loading of custom drawing implements.

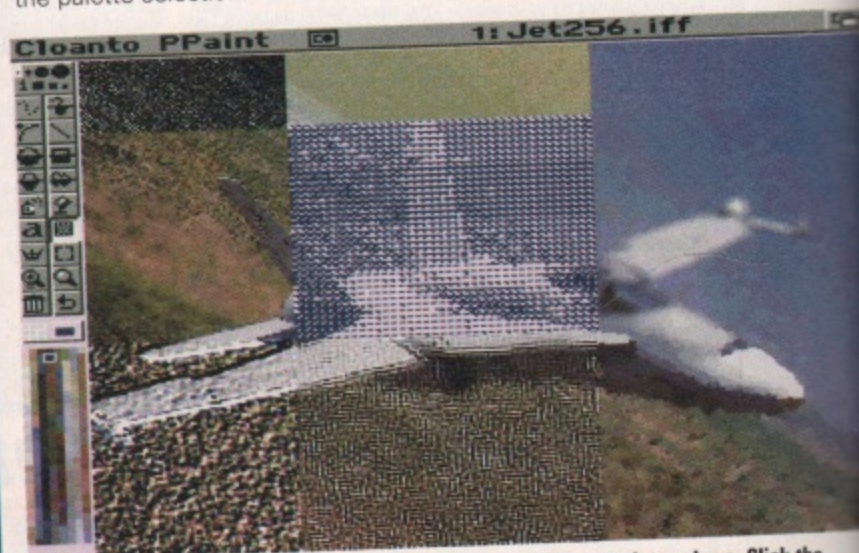
Animation From here, you manage the creation of animations (ANIMs). PPaint also supports anim-brushes, which alter a brush's appearance as frames go by.

Text Special functions for adding text to your pictures.

Color The color menu deals with palette management and reduction, the creation of 'stencils' (which can be used to protect certain areas of your picture while you work on others), and allows you to track colour usage.

Settings All the other preferences you could want are stored in this menu, including virtual memory management.

In the toolbar itself you'll find the pieces you need to actually get some work done. When working in the toolbar, the key thing to remember is that while you select a function with the left mouse button, clicking the right mouse button will usually allow you to access a set-



▲ Personal Paint doubles up as an image processor as well as a paint package. Click the right mouse button on the icon next to the 'a' on the toolbar to select an effect.



tings menu or custom configure an option.

Along the top two rows are your brush selections. The top four are your standard circular brushes, and the bottom row has a '1' along with three square brushes. The '1' is a special case, but for the other seven, you can simply select and use the brushes with the left button, or right-click to adjust the brush to a customized elliptical or rectangular shape. To shape them, right-click on the brush. Move the pointer to the drawing area (the pointer should have a boxy tail), then hold the right mouse button and move the mouse to get your desired shape.

By right-clicking on the '1' you can use one of nine custom brushes you've previously set up in the Brush menu.

These are your general freehand drawing tools. On the left is a 'dotted' line while the right gives you fluid lines. Notice the horizontal line running through this button. It is really two buttons – on the top is the button for straight lines, on the bottom is the button for 'area fill lines', which automatically fills in patterns defined by a line you trace on the screen. You can create some stunning effects just with creative use of this feature. And be sure to try right-clicking on this and all the other buttons to get an idea of the special customizations you can apply to the basic building blocks.

Bezier curves (left) are the standard way to generate complex, recreatable shapes and waves. Or, if you fancy, just draw a straight line with the other tool.

Circle and rectangle tools, respectively. Note the top/bottom distinction again, for open or filled shapes. You can define a gradient or other pattern for the fill with the right mouse-button menu.



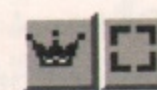
Slightly more complicated shapes here: the ellipse and the freeform polygon. The ellipse tool works like Circle or Square (and you might want to experiment with the Shift key while setting up your ellipse). The polygon allows you to draw successive, connected straight lines. You can exit the mode by closing the polygon, selecting another paint tool, or by hitting space.



The spraycan and the 'fill can' respectively. The spray gives you an airbrush scatter effect, while the fill can pours paint into a closed region you select with the pointer.



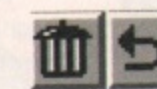
On the left, you can enter PPaint's font engine, to incorporate Amiga bitmap or vector font messages onto your image, be it for credits or for some other purpose. That gradient pattern on the right is another way into PPaint's image processing menu, which gives you the power to apply numerous intriguing effects to your image. This is one of the features that really sets PPaint apart from the crowd. Right-click on the button to get your choices, and get a different 'shape' to apply your effect in by multiple-left clicks on the button.



That crown over there is the international symbol for AREXX, letting you call up interesting external macros for your graphics work. Be sure to check out the Vector Text feature – you can get some excellent text looks without dealing with the cumbersome Amiga font engine. The right-hand button allows you to define a brush.



From here, you control the zoom feature of PPaint, for work in tight spots.



Finally, the tools you hopefully won't use too often. Click on the left to throw away your work and clear the screen. Click on the right to undo a mistake.

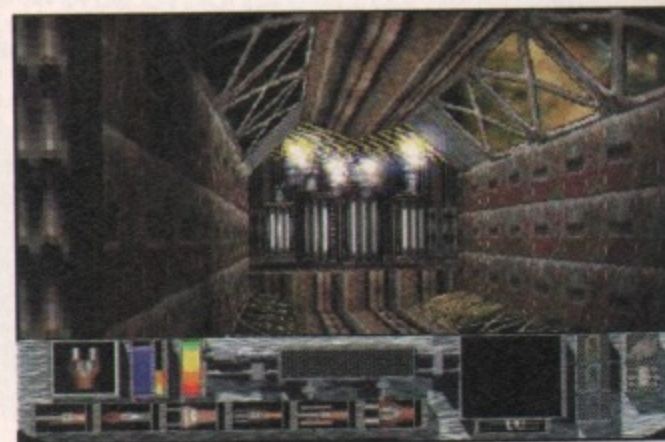
Now you're ready to get started with PPaint. Be sure to read the online documentation, and of course once you've completed your masterpieces don't forget to submit your work to CU Amiga for inclusion in our Art Gallery! It's paint, and this time it's personal.

Trapped III



This is one of the best cover disk game demos we've ever had.

Trapped III was inspired by the request from fans of Trapped 1 and II to take the wonderful 3D engine and make the gameplay more action orientated. Trapped III has the most technically advanced 3D engine the Amiga has ever seen, with stunning lighting effects and diverse level designs. It makes the likes of the Alien Breed series, Gloom and Breathless look basic in the extreme. You don't necessarily need a high powered Amiga to run



Trapped III but it has been written to take advantage of all the horsepower you've got on offer, so better CPUs allow for faster screen updates. You can alter the size of the screen to get it running at a reasonable speed on your set-up. There are four different basic display settings to choose from: ECS, AGA, Graffiti and Picasso96. The basic controls are mouse or cursor keys for movement, ALT to shoot and the

number keys select different weapons. The function keys call up various options screens and the H key displays the help mode. To quickly alter the screen set-up, use F1 to cycle through different pixel sizes and + and - to expand or shrink the overall display size.

To install it to your hard drive, drag the "DragMeToHD" icon to where you want it installed and then double click that icon.

Upgrade to Personal Paint 7.1

There are plenty of reasons to upgrade your Personal Paint 6.6 cover disk to the very latest version 7.1, such as:

- New Improved File Formats These include GIF (licensed by Unisys), 24-bit datatypes, PBM and TIM (loads TIM graphics directly from Sony PlayStation CDs with extended TIM saving options for developers)
- Professional Internet Features AnimGIFs are supported and there's a map editor, plus tools for retaining image quality with reduced size/colour files.
- 181 AREXX Commands Dozens of scripts available.
- New Plug-In Library System

Makes it possible to add input/output modules and replace other parts of the system.

• Automatic Thumbnails That's just a selection. See the ReadMe.txt document on the cover disk for a more complete list. The upgrade is being handled by Weird Science and comes on CD-ROM only, priced at £19.95. Contact Weird Science at: Weird Science, Q House, Troon Way Business Park, Humberstone Lane, Leicester LE4 9HA. Tel: 0116 246 3800. Fax: 0116 246 3801. E-mail: sales@weirdscience.co.uk www.weirdscience.co.uk

1997 Again...



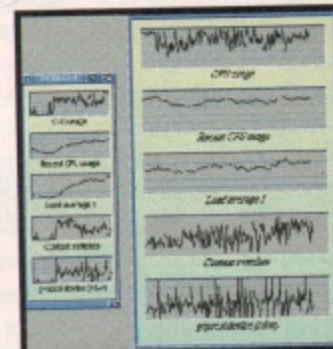
JANUARY

Phase 5 drop the A\Box bombshell with one of the longest, most technical press releases ever seen. CU Amiga

picks up the piece and puts them back together in the shape of a brand new Amiga with the catchily named "Caipirinha" custom chip at its heart. The dazzling array of features leaves many excited but confused and bewildered. Prototypes of their PowerUp cards go on show in Cologne.

Quote of the month

"I think this festive thing has gone way too far."



HIGHEST SCORING REVIEW:
EXECUTIVE

5 YEARS AGO:

Commodore enjoy phenomenal success as they announce the sale of the first 1 million UK Amigas

97%



FEBRUARY

VIScorp abandon their bid for the Amiga as QuikPak become the new front runners according to the highly active rumour mill.

VIScorp's Carl

Sassenrath resigns and publicly expresses some strong opinions regarding his employers in a notorious E-mail. CU Amiga visualises the A\Box as a sleek golden tower for its cover illustration and examines on its impact on the Amiga scene.



Quote of the month

"The interesting sounding 'World of Cheese' section is still under construction but there's still more fun to be had"

Tony Horgan



HIGHEST SCORING REVIEW:
UFO

5 YEARS AGO:

No scandals, but Another World was released and Amiga activity is booming

93%



MARCH

Speculation continues regarding ownership of the Amiga. QuikPak start to make ambitious noises about plans for the company

they have not yet bought, even going as far as to announce a new Amiga range, and some quarters of the press prematurely hail them as the new Messiah. A date is set for the London World of Amiga show. VIScorp suffer more high level staff losses with the departure of Bill Buck.

Quote of the month

"The only way you could have gotten this far is by walking around the shopping mall dressed in women's clothes"

Vampyra



HIGHEST SCORING REVIEW:
1497 (PD STRATEGY)

5 YEARS AGO:

Amiga Centre Scotland releases the Harlequin "affordable" 24-bit graphics card, priced at £2,000

93%

We made it through in the end! 1997 was a year that tested the mettle and loyalty of the Amiga scene to the max. Allow us to present the edited highlights. Bear in mind our definition of time is based on the issue dates of CU Amiga which is why, for example, the 'World of Amiga' show crops up in the July entry. Anyway, on with the show...



APRIL

As the official Amiga situation appears to go nowhere fast, third parties emerge with plans for new 'Amigas'. Co-operation is promised from the developers of the

PIOS and pOS projects. CU Amiga tracks down the mythical TFX and promises to display it at the forthcoming World of Amiga show, while an Amiga Quake game engine appears very briefly on the Internet before id software take action.



Quote of the month

"This is no Ridge Racer, more a flight simulation on wheels, going round tracks, in a racing car"

50 Best Amiga Games

HIGHEST SCORING REVIEW:

ALMOST EVERYTHING

5 YEARS AGO:

A good month for games as Project X gets 92% while the original Champ Manager scores 84%

92%



MAY

Gateway buy Amiga in a shock move that appears to come out of the blue, just in time for a scoop announcement to be inserted into

CU Amiga as it rolls off the presses. Amiga future looks "Bright" elsewhere after a healthy turn-out at the CeBIT show in Hanover, Germany, with Amiga clones and compatibles materialising in pre-production form. Everyone gets cautiously excited about it all.



Quote of the month

"Every time I log on to collect my E-mail I get some prat in America trying to sell me something"

Net God



HIGHEST SCORING REVIEW:

LIGHTWAVE 5

5 YEARS AGO:

A4000 is previewed. Very reasonable future Amiga wish list is ignored by Commodore

94%



JUNE

Gateway 2000 remain tight lipped about their reasons for the Amiga buy-out and their proposed plans for the future. Speculation

reaches an all-time climax as the key players from within the Amiga scene are quizzed for their reactions to the news.

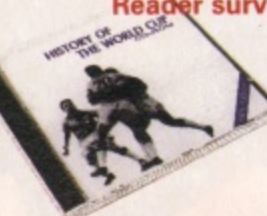
Sadly the UK's first Amiga magazine, Amiga User International, publishes its final issue. CU Amiga's popular DIY tower Amiga series reaches its conclusion.



Quote of the month

"3% said they would like to see more coverage of food in CU Amiga"

Reader survey analysis



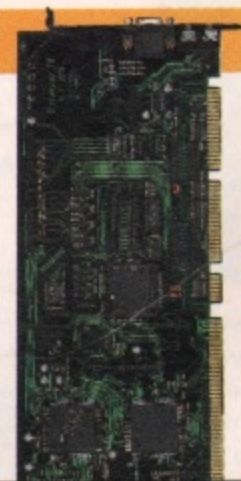
HIGHEST SCORING REVIEW:

PICASSO IV

5 YEARS AGO:

Commodore release the A600 and the A570 CD-ROM drive

94%





JULY

The World of Amiga show in London goes down as a big success, with

phase 5 joining forces with CU Amiga to display their PowerUP cards in the UK for the first time. TFX is also present and correct. Gateway's press conference is appreciated but reveals little other than their willingness to licence the Amiga technology to third parties, disappointing those hoping for an announcement of a new Amiga.



Quote of the month

"I own two pet chinchillas and have become a hobbyist chin breeder - although not necessarily by choice"

Eric Schwartz



HIGHEST SCORING REVIEW:
SIAMESE 2.0

95%

5 YEARS AGO:

Commodore cease production of the A500 Plus. CU Amiga exclaims "A500 is dead"



AUGUST

Good things are happening. As phase 5's PowerUP cards near completion, CU

Amiga explains just how fast these little babies are, whilst reporting on the gaming potential of these super-machines. Index Information and Micronik both announce their new officially licenced Amiga clones. The model from Index looks more like a large external hard drive than an entire computer.



Quote of the month

"You thought a 68060 was fast? You'll be able to tile your bathroom with the things before long"

Tony Horgan

HIGHEST SCORING REVIEW:

VOYAGER NG, CINEMA 4D & MAGELLAN OPUS 5

92%

5 YEARS AGO:

Commodore announce "cracking deal" in which an A500 can be part exchanged for £200 off a new CDTV (normal price £599)



SEPTEMBER

Chinese company Lotus Pacific announce their acquisition of

the rights to produce Amigas for sale in the Far East, while Gateway 2000 dispute it. Speculation that Lotus got these rights from "a bloke down the pub" is countered by their version that goes back to Escom selling them in 1995 on to a 'middle man', REC, who then passed them on to Lotus. Lots of hot new games on the horizon.



Quote of the month

"Grasshoppers have got six legs - connected at the thigh, they've also got a pair of wings - but they cannot fly-y"

Tony Dillon



HIGHEST SCORING REVIEW:

MICRONIK MG-25 GENLOCK

95%

5 YEARS AGO:

A600 gets £100 taken off its retail price and falls to £299 as speculation rises about more new Amiga models



OCTOBER

TFX is here! Overshadowing all other Amiga events, CU Amiga exclusively releases TFX, the best Amiga game

ever, with the October issue. For many this is the highlight of the Amiga year. Gateway 2000 set up Amiga Inc in South Dakota USA to act as research and development, freeing up the German based Amiga International to concentrate on sales and marketing. CU Amiga officially becomes the UK's biggest selling Amiga magazine while Amiga Computing and Amiga Review magazines close.



Quote of the month

"Before the bogey shakes off the lock, let him have it with a sidewinder up the tradesman's entrance"

TFX guide

HIGHEST SCORING REVIEW:
ZYXEL OMNI.NET

5 YEARS AGO:

A4000 is unveiled at short notice to a US crowd, catching the press unawares

95%



NOVEMBER

The first batch of PowerUP PowerPC cards finally become available. An A1200 PowerUP card with an

optional 'graphics card' add-on is also announced. CU Amiga's best DIY project yet, AIR Link, sees a free PCB stuck on every issue and offers the possibility of controlling a range of devices from an Amiga. A renewed mood of optimism pervades in the Amiga trade and amongst users. One of the year's major software releases turns up in the shape of Nova Design's Aladdin 4D.

Quote of the month

"... combine it with this month's DIY project and then make yourself the world's first remote controlled portable Amiga in a shopping trolley"

Backchat



HIGHEST SCORING REVIEW:
VISUALFX

5 YEARS AGO:

A4000 arrives in the UK, while the CDTV is reported to be "taking off" with 12,000 UK sales and 10,000 each in Italy and Germany

96%



DECEMBER

Everything turns up at once as Click-BOOM's conversion of Myst,

phase 5's

PowerUP and even Champ Manager 2 arrive in the same month that people start to question the longevity of the PowerPC range. Cloanto announce the Amiga emulator, defiantly named Amiga Forever, for the PC. Amiga users vote Monkey Island 3 top of the list of games they want to play.



Quote of the month

"John Kennedy can't find any real people, and so uses himself instead"

Imagine tutorial



HIGHEST SCORING REVIEW:
SHARP MINIDISC

5 YEARS AGO:

The A1200 turns up, but curiously the Amiga press seems more interested in playing with morphing software

97%

SOFTWARE

Amiga Forever

Commercial Amiga emulator for the PC.

Includes Amiga operating systems, ROMs and emulation software pre-installed. Picasso96 driver (8/16/24-bit) and "Amiga Explorer" networking solution.



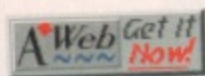
£ 49.95



AWeb II V3.0

Surf the Web on your Amiga!

£29.95



Art Effect

ArtEffect uses the concepts of industry standard Art packages and brings them to the Amiga. V2.0 now with Layers and Virtual Memory!



ArtEffect V1.5
Art Effect V2.0

£ 59.95
£119.95

Storm Software

StormC V2.0 Base Package
Non Commercial license

£119.95

StormC V2.0 Base Package
Professional unrestricted license

£179.95

StormPowerASM V3.0

£ 99.95

StormWIZARD V2.0 - GUI creation

£ 69.95

Add-on Modules (All require Storm C base package)

StormC V3.0 - p.OS-Module

£ 49.95

StormC V3.0 - PowerUp-Module

£119.95

StormC V3.0 - PowerASM-Module

£ 69.95

(Call for upgrades for any of these packages)



Burn-It

Powerful CD-Burning software which is available in Track-at-Once and Disk-at-Once versions. TAO will fulfil most CD-Burning requirements, but DAO is required to product 100% duplicates or no standard pre/post gaps.

Burn-It

Burn-It TAO
Burn-It DAO

£ 69.95
£109.95



Fusion

FUSION - The ultimate Software Mac Emulation

Runs practically all the latest Mac software. Latest System 8.0 support! (Macintosh ROM's required) Why consider a Mac when the Amiga can do it for you!



FUSION

£ 49.95



Picture Manager Pro

Picture Manager Professional

All-in-one graphics tool for automatic format conversion, searching, printing, image processing, PhotoCD access and more!

Picture Manager Professional V4

£39.95



Tornado 3D

Tornado3D is a superb Rendering and Animation package.

£179.95



PCx

PCx - Software PC Emulation - Advanced 80x86 PC emulation.



PCx

£ 49.95

HARDWARE

Various

Monitor Adaptor (23-pin mon. to 15-pin gfx) £ 14.95
VGA Adaptor (23-pin Amiga to 15-pin mon.) £ 14.95
Floppy Drive 1.76Mb int. (1200/4000 1" high) £ 54.95
Floppy Drive 1.76Mb Ext. (No patch!) £ 59.95
8 Mb 72-pin SIMM RAM £ 29.95
16Mb 72-pin SIMM RAM £ 54.95
32Mb 72-pin SIMM RAM £ 99.95
1.2Gb IDE Hard Drive £129.95
2.1Gb IDE Hard Drive £159.95
12X IDE CD-ROM £ 59.95
24X IDE CD-ROM £ 79.95

CatWeasel floppy controller (A1200/A4000)

£ 49.95

Use inexpensive PC floppy drives (DD/HD)

IDEFix 97 - Buffered A1200 4-Way IDE I/F

£ 34.95

Includes registered Atapi software

CatWeasel Zorro

Six IDE devices + All Catweasel functions

£ 69.95

Buddha

Four IDE devices for the A4000

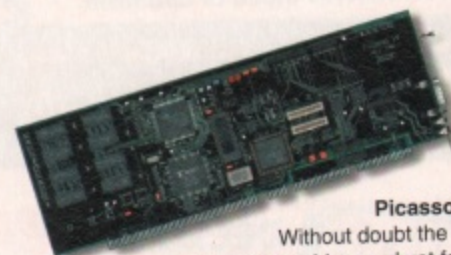
£ 44.95

Siamese V2.5 Software packs

TCP/IP, RTG and CyberGraphX support software

£ 44.95

Picasso



Picasso IV

Without doubt the most stunning graphics card yet for the Amiga. No wonder CU Amiga claimed this to be "The God of Amiga Graphics Cards!"

Integrated flicker fixer, 4Mb EDO RAM, Autosense Zorro II or Zorro III

£249.95



Picasso II+

The cheapest route to fast, high resolutions and high colour graphics! Zorro II

£129.95



Trapped II - Stunning high end 3D game!

£19.95

NeMac IV - The Directors Cut!

£19.95

Shadow of the 3rd Moon - Voxel Flight Sim

£24.95

BrainKiller - 3D Shooter

Sword - Novel Platform Game



Amiga OS 3.1

OS3.1 - Official Amiga OS Upgrade

Amiga 500, Amiga 500+,
Amiga 1500, Amiga 2000 £ 39.95
Amiga 1200, Amiga 3000(T),
Amiga 4000 (T) £ 45.95

OS 3.1 ROM's only

Amiga 500, Amiga 500+,
Amiga 1500, Amiga 2000 £ 25.95
Amiga 1200, Amiga 3000 (Inc. Tower),
Amiga 4000 (Inc. Tower) £ 29.95



Infinitiv Amiga Tower Systems
Officially licensed Amiga computers.

Infinitiv 1300
Infinitiv Tower, A1200 Motherboard,
OS3.1, 200W PSU, Mouse, External
Amiga Keyboard, Floppy drive.

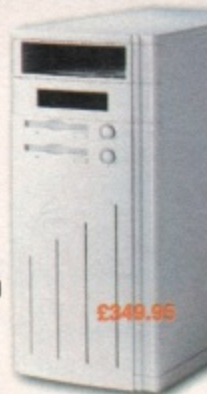
Infinitiv 1400
As per 1300 above plus 5 x Zorro II,
2 x ISA, 2 x PCI and Video option.

Infinitiv 1500
As per 1300 above plus 5 x Zorro III, 1 x ISA, 2 x PCI,
Video option, A4000 CPU slot, SCSI-II interface and 1 x
SIMM slot.

Add-on Choices for any Infinitiv Amiga computer

1.2Gb Hard drive + 12x CD-ROM £159.95
2.1 Gb Hard drive+ 12x CD-ROM £189.95
1.2Gb Hard drive + 24x CD-ROM £179.95
2.1 Gb Hard drive + 24x CD-ROM £209.95
Software Pack: WordWorth Office,
NetConnect Lite, ArtEffect SE, PMPro V3
Trapped II and NeMac IV (with any CD) £ 29.95

Infinitiv Kit-Z2
Tower, Z2 board plus PSU £299.95
Infinitiv Kit-Z3
Tower, Z3 board plus PSU £469.95



Component Parts

Infinitiv Tower + Keyboard interface £119.95
Infinitiv Tower + K/B int. + PSU £159.95
Z2 board: Zorro II x 5, PCI x 2, ISA x 2,
Video (option) £149.95
Z3 board: Zorro III x 5, PCI x 2, ISA x 2,
Video (option), SCSI-II, A4000 CPU slot £319.95
Infinitiv uprated PSU £ 44.95
Infinitiv 3.5" "Snap-on" bay £ 11.95
Infinitiv 5.25" "Snap-on" bay £ 29.95
PCMCIA Adaptor £ 29.95
Infinitiv Video Slot Interface £ 39.95
Power Adaptor £ 6.95
External A1200 Keyboard case £ 39.95
Windows 95 Keyboard £ 19.95
Audio Slot Bezel (2 x Phono) £ 19.95
4-Way IDE interface £ 19.95
1.76Mb Floppy drive (internal) £ 54.95
CD-ROM Bezel £ 4.95
Twin Internal floppy drive cable £ 24.95
3.5" device adaptor (Mounts in 5.25" bay) £ 14.95

Tower Kits for the Desktop A4000 and A3000

Metal CE Approved Tower
Zorro III slots x 7, ISA slots x 5 (6 on 3000), Video x 2
(1 on 3000). PCI version has 3 x PCI and 3 x ISA

Tower 4000 PCI System £329.95
Tower 4000 ISA System £299.95
Zorro III/ISA/PCI/Vid (A4000) £219.95
Zorro III/ISA/Video (A4000) £329.95
Tower 3000 ISA System £219.95
Zorro III/ISA/Video (A3000) £219.95
Uprated PSU £ 69.95

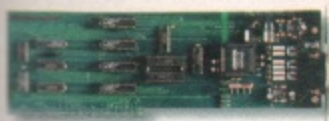


Prelude

Prelude

Zorro II 16-bit sound card with full AHL
software support.

£169.95



Iiyama Monitors

The Iiyama monitor range is famous
for excellent quality and value.
Complete with 3 year warranty.

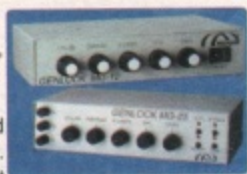


Vision Master 15" MF-8515G £299.95
Vision Master 17" MF-8617 £529.95
Vision Master 21" MF-8221G £599.95

Genlock/DigiPen

MG10 Genlock

Supports VHS, VHS-C,
Video-8 formats with
precise settings of
contrast, brightness and
colour. Invert functions (i.e.
Keyhole effects) and soft
fading.



£169.95

MG25 Genlock

All the functions of the MG-10 plus RGB
Monitor switch, separate RGB colour setting,
S-VHS, Video-8, Hi-8 and Alpha-Channel
bypass.

£229.95

DigiPens

DigiPen 303 (7.62 x 7.62 cm) £ 59.95
DigiPen 604 (15.24 x 10.16 cm) £ 69.95
DigiPen 606 (15.24 x 15.24 cm) £ 89.95
DigiPen 906 (22.86 x 15.24 cm) £109.95



Ariadne Network

Fast Amiga networking.
Zorro II card with
additional parallel ports.
Comes complete with
Envoy software. £129.95



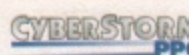
Amiga Computers and Towers

Accelerators - PPC and 68xxx



PowerPC 604e Accelerators for Amiga 3000/4000

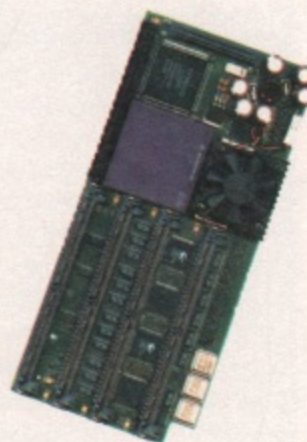
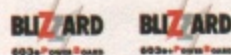
PowerPC604e 150-200 MHz
68040/68060 25-50 MHz
max. 128 MB RAM
Ultra-Wide SCSI



PowerPC 603e and 603e+ Accelerators for the Amiga 1200

Blizzard 603e
PowerPC603e @ 175 MHz
68030 50 MHz
max. 128 MB RAM
Fast SCSI-II

Blizzard 603e+
PowerPC603e @ 200 MHz
68040/68060 25-50 MHz
max. 128 MB RAM
Fast SCSI-II



CyberStorm PPC-604	150 MHz	180 MHz	200 MHz
Companion CPU Socket	040 or 060	040 or 060	040 or 060
MIPS	-	-	350
SpecFP95	-	-	7.1
Max RAM	128Mb	128Mb	128Mb
SIMM Sockets	4	4	4
SCSI On-board	Ultra-Wide	Ultra-Wide	Ultra-Wide
Price	£469.95	£539.95	£619.95
Price with 68040/25 fitted	£509.95	£569.95	£649.95
Price with 68040/40 fitted	£539.95	£599.95	£689.95
Price with 68060 fitted	£689.95	£759.95	£849.95
Registered Upgrade Price	£439.95	£499.95	£569.95



Blizzard 603/603+	175 MHz	200 MHz
Companion CPU Socket	030	040 or 060
MIPS	250	280
SpecFP95	3.1	3.5
Max RAM	64Mb	64Mb
SIMM Sockets	1	1
SCSI On-board	SCSI-II	SCSI-II
Price	£289.95	£374.95
Price with 68030/50 fitted	£324.95	
Price with 68040/25 fitted		£419.95
Price with 68040/50 fitted		£449.95
Price with 68060 fitted		£599.95
Registered Upgrade Price		£274.95

CYBERSTORM MKIII 68060 Turbo Board - 68060 Accelerator board for Amiga 3/4000
68060 CPU @ 50 MHz (66 MHz ready), Built-in Ultra-Wide SCSI

£449.95

BLIZZARD 1230-IV Turbo Board - 50 MHz 68030 Accelerator Board for the A1200
BLIZZARD 1260 Turbo Board - 50 MHz 68060 Accelerator board for the A1200

£ 94.95
£299.95

Blitterssoft

6 Drakes Mews, Crownhill Industry,
Milton Keynes. MK8 OER. UK.
Sales : +44 (0)1908 261466
Tech : +44 (0)1908 261477
Fax : +44 (0)1908 261488
email : sales@blitterssoft.com
technical@blitterssoft.com
Web : http://www.blitterssoft.com

Order by Access/Visa/Delta/Switch/P.Order/Cheque. 2%
Surcharge on Access/Visa (not debit cards). All prices fully inclu-
sive of VAT. Postage and Packing £7.00 + VAT (24 Hour) and
£15.00 + VAT (Saturday). Prices and specifications may change
without notice. Please telephone to confirm pricing/specification/
availability before ordering. E&OE. All trademarks acknowledged.
All orders subject to our terms and conditions of trading, available
on request. Trade enquiries welcome.

Christmas Compos

The turkey filled days of Yule are approaching rapidly. 'Tis the season for giving, so get your postcards out and get scribbling - it's competition time!

We've shown a lot of restraint this year. No photos of the team wearing paper party hats, no rendered reindeer in the margins, and we even persuaded our publishers against putting a model in a santa suit on the cover. We do, however, like getting drunk, sleeping through the Queen's speech and eating turkey for a week and a

half as much as anyone. So we have got together with some like minded Amiga companies to bring you this Christmas Compo Bonanza! All the normal rules apply, no entries from anyone in the employ of Emap Images or the relevant company, the editor's decision is final, the deadline is January 31st 1998 and all complaints will be ignored. Merry Christmas!

Alive Media

This new games house and specialist retailer of old and hard to find Amiga books and games, publishers of Blade and the forthcoming Haunted, has offered us 5 special Christmas Hampers to give away. Each contains an assortment of games, hints and tips books, plus a copy of Blade, which scored 86% last month. To win one of the hampers, just tell us in 20 words or less what you'd like for Christmas. Answers on a postcard only to:

ALIVE Mediasoft Ltd.

Alive Xmas Compo,
CU Amiga Magazine
37-39 MillHarbour,
Isle of Dogs,
London E14 9TZ

Epic Marketing

Epic Marketing are a leading producer and distributor of Amiga CD-ROMs, and have recently moved into games in a big way with their Islona games label. They have offered a juicy £100 worth of software to the winner, with 10 runners up getting any title up to £25 value. Prizes will be awarded on a first out of the hat basis. Postcards to:

CU Compo,
P.O. Box 637,
Swindon,
Wilts, SN2.

Guildhall Leisure



Guildhall have been THE software distributor for the Amiga for ages. They have recently published titles such as Street Racer and Ultimate Gloom. They are also publishing CD re-releases of titles such as Civilization, Dpaint V, and Ultimate Blitz. Guildhall have kindly offered to give away one of the above mentioned titles to the first 20 postcards pulled out of a hat.



Postcards to:
Guildhall Xmas Compo,
CU Amiga,
37-39 MillHarbour,
Isle of Dogs,
London E14 9TZ.

Contract:
Guildhall Leisure
15 Guildhall Industrial Estate
Rix Street, Doncaster
DN1 1QR.
Tel: 01522 890040
Fax: 01522 890010

Power Computing

Power Computing is the largest supplier of Amiga hardware in the UK. They've been flogging their large range of accelerators, scanners, floppy drives etc. for years. Recently they dipped their toes into games publishing with the excellent CD-ROM game the Big Red Adventure, which we gave storming 90% to in May. Power want to spread their Christmas cheer by giving away 10 copies. Just answer to this simple question - What country did Roberto Baggio and Leonardo DaVinci come from? Answers, as ever, on a postcard to:

Power Xmas Compo,
CU Amiga Magazine
37-39 MillHarbour,
Isle of Dogs,
London E14 9TZ

Blittersoft

Blittersoft

For years Blittersoft have supplied hardware and software for the high end user. They've entered co-operation with Index Information over the forthcoming BoXeR computer. In the mean time, you could get yourself a not quite so good new computer for Christmas by winning one of two copies of Fusion, the top Mac emulator, along with 2 copies of Picture Manager pro, reviewed on page 62 of this very issue. To win one of these prizes, just tell us what a blitter chip is.

Answers on a postcard to:

Blittersoft Xmas Compo,
CU Amiga Magazine
37-39 MillHarbour,
Isle of Dogs,
London E14 9TZ.

Blittersoft

Weird Science

Weird Science is a company with its fingers in more than a few plum duffs. They have produced numerous succesful CD-ROM titles and their close co-operation with German CD-ROM firm Schatztruhe GTI has given them UK distribution of the famous Aminet CDs. Weird Science are giving away an amazing complete Aminet collection - Aminet sets 1-5, to 3 winners - and if this great prize wasn't enough, they are offering a chance to win one of the 8 Network PC systems they are offering. These cable/software solutions allow files to be easily and freely exchanged between the Amiga and a PC. Funniest postcards win the prizes! Mark your postcards either Aminet or Network PC and send them to:

Weird Science Compo,
CU Amiga Magazine
Isle of Dogs
London
E14 9TZ.

Weird Science

Eyeteck Group Ltd

Eyeteck are a the company with the answer. If there's a way of squeezing some extra piece of hardware onto your Amiga, Eyeteck probably know it. Their big hit at the moment is their excellent and easy to build EZ-Tower A1200 tower systems which open up a wealth of expansion options. Get a Christmas present you will never regret, and Eyeteck will help you out. Cut out this coupon and include it with your order and Eyeteck will give you £20 off the cost of an EZ-Tower or £10 off the cost of an EZ-Tower DIY kit. This offer is limited to orders recieved before 31st January 1998 and is valid for the price advertised in this magazine. This offer is not valid in conjunction with any other offer.

Telephone Eyeteck on 01642 713185 or check out their ad on pages 29 and 71.

EYETECH

Eyeteck's Christmas Crackers: 4-speed CDROM system - £99.95!!!; A1200 Magic Packs w/£180 worth of vouchers - £249.95; EZ-IDE s/w from £12.50; 030 accel's from £68.95; 040/25MHz (19 MIPS) £138.95; 39 Mips '060/50MHz £278.95; A600 33MHz '030/MMU/FPU/standard simm to 32MB - £99.95; DIY-EZ-Tower from £99.95; 8-speed CDPlus £149.95; 460KPortJnr £44.95; LS120 £114.95; (Price down, New)

Q. What fits in a floppy bay and reads & writes 120 MB PC & Amiga cartridges AND 720KB & 1.44 MB PC diskettes?

- 120MB backup and PC 1.44MB diskette compatibility in one unit
- Bare Drive just £114.95. 120MB cartridges just £14.95/1 or £34.95/3
- EZ-IDE universal EIDE driver software is required - 50% discount when ordered with the LS120 or 4-device buffered interface. Upgrades available from Eyeteck-supplied IDE-fix available - see below right.

A. The All-New LS120 ATAPI drive from Eyeteck



HEALTH WARNING

"A buffered IDE interface is essential to avoid overloading of the A1200's IDE port when adding extra devices" - John Kennedy - AF - July 1997

Don't be tempted to skimp. Fit an Eyeteck 4-way IDE/ATAPI 3-chip buffered expander to preserve your Amiga's Health. The original and best - just £39.95. Now with 50% discount off EZ-IDE software

The Mk2 EZ-TOWER

"This definitely one of the easiest solutions to building your own tower." John Kennedy, Amiga Format - July 97

Mk2 EZ-Tower with DFO: faceplate/cable - £119.95
DIY option - all parts/instructions provided - £99.95
Collection, fitting and delivery service - Please ring

See our full-page EZ-Tower feature advert in this magazine

... Or buy a CDPlus unit (below) and get an EZ-Tower* for just £99.95

(*as an alternative to the regular CDPlus case)

The Top-Rated Eyeteck CDPlus for the A1200

- 8-, 16- or 24-speed external CDROM unit in quality, CE-approved case with heavy duty PSU
- Leaves trapdoor free for accelerators / memory expansion and the PCMCIA slot free for digitisers, modems, samplers etc
- Option to add additional HD's, CDROMs, LS120s, SyQuests, IDE Zips, Jazs, SyJets, ATAPI tape streamers etc powered from the CDPlus unit
- Comes with special Eyeteck '060-compatible Mk2 4-device EIDE buffered interface board - easily fitted in minutes with no cutting/drilling (Note that IDE CDROMs must never be directly connected to the A1200 without a buffered interface - ask any qualified electronics engineer!)
- Gold plated audio phono sockets at rear (CD+ only) and front panel headphone socket and volume control



The CDPlus and SyQuest EZ135 drives. The IDE Zip Drive is the same size as the EZ135

Amazing Value **NEW! 24-Speed - only £199.95**
8-speed - only £149.95 16-Speed - only £179.95

Considering a PowerStation?

The CDPlus is now available with a, 230W, CE-approved, PC MiniTower* or Desktop* case (which can also power your A1200) - for only £20 extra

(*as an alternative to the regular CDPlus case)



Amiga User International - 97%
"... It all worked faultlessly ..."
Amiga Format - 96%
"... An absolutely superb bit of kit..."
Amiga Shopper - 90%
"... This is a quality product..."

D-I-Y and Bargain Corner

Hard-to-find parts for your Amiga project

- Hard, floppy drive cables and cases**
- 2.5"-2.5" 44-way 2.5" HD cables 9cm £8.95, 13cm £9.95, 60cm £19.95
 - 2.5" 3x44-way hard drive cables for 2 x 2.5" drives (6cm+6cm) £12.95
 - 3.5" power & data cables for A600 & A1200 £14.95; full fitting kit £24.95
 - 3.5" external hard drive case £19.95, 3.5" removable drive case £24.95
 - 3 x 40-way IDE cable for 3.5" HD/CDROM - 85cm/2' 9" £9.95
 - Custom 3 x 40 IDE cables to 1.5m/5' (enclose drawing) £19.95
 - 3.5" hard drive to 5.25" bay mounting adapters £5.95
 - 2.5" hard drive to 3.5" bay with 3.5" data/power cable adapters £11.95
 - 3.5" floppy/SyQuest/Zip drive to 5.25" bay mounting adapters £6.95
 - 40 pin m-f detachable data cable for external 3.5" HD/CDROM's £9.95
 - Stimline external floppy/IDE SyQuest/IDE ZIP/IDE Jaz case £9.95
 - SCSI cable 25way D(m) to 50way Centronics (m) (1m) £9.95
 - SCSI cable 50way Centronics (m) to 50way Centronics (m) (1m) £9.95
 - 2 x 34pin ribbon cable - faceplate for A600/A1200 int'l floppy in tower £12.95
 - 23p-M to 23p-F external floppy ext'n cable 0.5m £12.95; 2m £14.95
- Audio & video cables and adapters**
- 3.5mm stereo jack plug to 2 x phono plugs for CDROM £5.95
 - CDROM standard 4 pin inverted T audio connector & phono plugs £9.95
 - Phono plug x 2 to phono plug/socket x 2 audio mixer leads £6.95
 - Stereo 2 x phono plug to 2 x phono plug 1.1m/4' (4.9m/16' £9.95) £4.95
 - Stereo speakers (pair), with amp (16WPMPO) & mains psu £9.95
- Power supplies, cables and PC towers/desktops with integral psus**
- IDE or SCSI CDROM case, 40w PSU, audio & data connect's £59.95
 - Enhanced metal cased PSU for A600/A1200/CD32/CDROM/external HD (fit your old lead - instructions provided) £29.95
 - Mini-tower or desktop case with 200W/230W PSU, CD & HD/Zip bay, power lead connector block, resistor, cable restraint etc, & full instrns £39.95
 - Genuine CD32 PSU £14.95; Genuine A1200 PSU £19.95
 - 4-pin M-F HD prw ext'n 0.9m/3' £9.95; 4-pin(m)->2x4-pin(f) splitter £6.95
 - 23 pin m floppy drive connector to 4 pin HD/CDROM power plug £9.95
- Miscellaneous**
- A1200/SX32 internal cooling fan - dissipate that extra power! £14.95
 - VGA 23-15 pin adapter for A500/600/1200 £12.95; but for A4K £19.95
 - A4000 kbds (new) for CD32/A2000/3000/A4000 (*adapter +£5) £39.95
 - 50MHz capable PGA FPU £39.95; A1200 RAM boards £29.95
 - Amiga CDROM disks - our selection - 5 for £10.00
 - A1200/A600 internal floppy drives £24.95; A1200 keyboards £29.95
 - Amiga microswitched mouse with mousemat £9.95
 - ScanQuix3 PC printer cable adapter - parallel Epson scanner £9.95
 - 38.6/14.4 compact datafax modems £39.95, 14.4/14.4 from £19.95
 - A1200 Workbench 3.0 disks (5) £14.95 WB3.1 disks (6) £19.95

Four new Amiga Expansion Products from Eyeteck

- PortPlus** - high speed serial and parallel port expansion
- 2 x 460Kbaud buffered serial ports with low CPU overhead
- PC & Amiga compatible parallel port transferring up to 500K bytes/sec
- Very easy to fit & leaves PCMCIA & trapdoor free. Zorro versions too!
- PortPlus** - 2x serial & 1x parallel - just £89.95!
- PortJnr** - 1 high speed serial port - just £44.95
- New! PortPlusZ3** - 2xP & 1xS - £69.95; **PortPlusZ4** - 4xS - £89.95
- PortXtra** - adds extra 2xS & 1xP to PortPlusZ3/Z4 Zorro cards - £59.95

Apollo Accelerators - Unbeatable pricing

- A600 - 33MHz '030 with MMU & FPU exp to 32MB £99.95
- Entry level A1200 Accelerators - Unbeatable value
- 25MHz '030 with MMU & FPU. (5 Mips) - Just £68.95
- 33MHz '030 with MMU & FPU. (7 Mips) - Just £79.95
- Power User A1200 '040/'060 accelerators (no tower req'd)
- 25MHz '040 with MMU & FPU. (19 Mips) - Only £138.95
- 33MHz '040 with MMU & FPU. (25 Mips) - Only £158.95
- 40MHz '040 with MMU & FPU. (30 Mips) - Only £198.95
- 50MHz '060 with MMU & FPU. (39 Mips) - Only £278.95
- 66MHz '060 with MMU & FPU. (51 Mips) - Only £339.95
- A Standard A1200 is rated at 1.3 Mips. All measurements from Sysinfo
- Memory** - 4MB - £14.95; 8MB - £29.95; 16MB - £54.95; 32MB - £99.95

Interface Island

Where your Amiga does more

- A1200/A4000 non-Zorro
- 4-device A1200 buffered EIDE if £39.95
- 4-device EIDE interface for A4000 £19.95
- EZ-Key A1200-PC/A2000 k/b adapt'r £39.95
- EZ-DFO interface for Sony floppy £14.95
- EZ-DFO if, with Sony floppy & cable £39.95
- DiskPlus DD/HDD Amiga & PC 2x FDD if
- for A1200 hard drive IDE port £64.95
- for A1200 clock port £69.95
- for A4000 IDE port £69.95
- PortPlus 2x 460Kbaud serial + 1 x par £89.95
- PortJnr 1x 460Kbaud serial port £44.95
- Audio mixer skts/leads for EZ-Tower £19.95
- Zorro I/O
- GG2+ - use PC cards in Z2 slots £129.95
- IDEPlus 3x2 IDE + 2x DD/HDD PC & Amiga £79.95
- floppies. With full IDE/EIDE CDROM s/w

- SX32Mk2 - £149.95
- SX32Pro50 - £299.95
- SX32Pro40EC - £249.95

ScanQuix3 Scanner Software

- for all Epson parallel or SCSI scanners and HP, Mustek, Artek SCSI scanners
- "An excellent piece of software"
- Gold award - Amiga Format 11/97
- 24 bit scanning with full range of editing options
- "Scan-to-disk" option in jpeg or iff formats
- Stand-alone use or integrates with your Art package (Photogenics, ImageFX, AdPro, XIPaint, Pagestream 3, DPaint5, ArtEffect, PPaint)
- ScanQuix v3.0 - only £59.95

Amiga 1200 Magic Packs

- Direct to Eyeteck from Amiga International Inc.

- Full UK specification with Kickstart 3.1/Workbench 3.1 disks and manuals, UK psu, mouse, mousemat and TV lead.
- Fantastic software bundle including Wordworth 4SE, TurboCalc 3.5, Datasort 1.1, Photogenics 1.2SE, Personal Paint 6.4, Organiser 1.1, Pinball Mania and Whizz
- Three very special EIDE bundles designed to meet every need and budget - all with 12 months return-to-base warranty

The Eyeteck Starter Pack

Just £249.95

The Eyeteck Productivity Pack

Just £299.95

The Eyeteck EZ-Tower Professional Pack

Just £799.95

- Diskette pack as above with 2MB graphics/program memory and built in hard drive interface. Hard drive and memory expansion recommended for non-games use.
- Over £180 worth of discount vouchers for future hard drive, CDROM, accelerator/memory and EZ-Tower upgrades from Eyeteck
- As above with 2MB graphics/program memory and 170MB hard drive. Just switch on & use straight from the box!
- Scala MM300 preinstalled on the hard disk (needs 4MB memory expansion to run properly)
- Over £180 worth of discount vouchers for future hard drive, CDROM, accelerator/memory and EZ-Tower upgrades from Eyeteck
- Full EZ-Tower with EZ-Key keyboard adapter, Windows95 keyboard, and 250W psu, with software and manuals as above and with mouse, mousemat & TV lead. (No A1200 k/b or psu)
- 25MHz '040 processor (approx 19 Mips) with MMU & FPU and 16MB of program memory.
- 1.7GB TowerDrive with Workbench 3.1 and shareware utilities preinstalled
- 8-speed CDROM including the Eyeteck 4-device buffered interface and fully registered CDROM/hard drive/IDE Zip drive/LS120 driver software preinstalled
- 880KB floppy drive including faceplate
- Fully installed and tested together with all relevant cables and manuals
- AND the option to have fitted:
- An LS120 720KB/1.44MB/120MB drive/cable for just £99.95 extra (at time of purchase only)

EZ-IDE

- 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! Eyeteck's IDE ZipPrep Tools are also included.
- Optimises IDE hard drive performance automatically. Eliminates 'MaxTransfer' nightmares.
- Extensive CDROM support including multidisk changers, direct digital audio transfer, CD32 emulation, high performance filesystem support for Amiga, Mac and PC CDs.
- Ready-to-use as shipped. No sending away to foreign parts for registration codes as with the 'commercial' versions of IDE-fix97 and Atapi PnP.

EZ-IDE s/w £34.95
Upgrade from Eyeteck-supplied IDE-fix £12.50
With* 4-dev if, CDPlus, IDE Zip or LS120 £17.50
Competitive upgrade* £24.95
*Trade-in & proof of purchase required

The Amazing Iomega IDE Zip Drive

Another first from Eyeteck

- Use a different cartridge for each application or family member
- Ideal for transferring multimedia data between Amigas and/or other platforms
- Fits in any Amiga/desktop/minitower floppy drive bay or in external case
- CARTRIDGE CHANGES AUTOMATICALLY RECOGNISED!

The IDE Zip drive fitted in an A1200

Bare IDE Zip drive (inc Eyeteck V2.0 Ziptools) - Just £99.95
EZ-IDE (or equiv) software required - Just £17.50 with drive
100MB Zip cartridges just £14.95/1 or £34.95/3 (*A600/1200 buffered interface needed)

A1200 InstantDrives & TowerDrives

InstantDrives and TowerDrives are only available from Eyeteck



"The fastest drive I have tested on any platform...95%"

Important Notes! - David Taylor - Amiga Format February 1997

- Thinking of buying a BIG drive? Don't waste your money on ANY DRIVE OVER 4.3GB as the Amiga O/S doesn't support it! (2^32-1 bytes actually). Be warned!
- 3.5" hard drives - even those described as "Slim" - are usually 1 1/2" high and will NOT fit in an A1200 without significant modifications to the case and metal shielding - which itself reduces the value of your computer.
- InstantDrives require no hole drilling, case clipping, or shield removal required and 3.5" InstantDrives come inclusive of full fitting kit and easy-to-follow instructions
- All drives come ready-to-use with WB3.0 preinstalled & WB2.x install script.
- All drives over 350MB also come with over 45 top quality utilities (not shovelware) and MME multimedia authoring software preinstalled, configured and ready-to-run.

InstantDrives: 2.56GB AV (~3MB/s) £219.95
TowerDrives: 1.2GB £129.95
1.7GB £149.95 2.11GB £159.95
3.2GB £189.95 4GB (to the limit!) £249.95

2.5" InstantDrives for the A600, A1200, SX32 & SX32 Pro

- 170MB A 2.5" drive ideal for the SX32Mk2 and for the A1200/A600
- 540MB A fast, superslim drive with ample capacity for most users
- 810MB A superb, superslim drive ideal for users of serious applications
- 1.08GB The high performance superslim drive is ideal for power users
- 1.8GB This top-of-the-range drive is perfect for the A1200 & SX32Pro

Eyeteck Group Ltd

The Old Bank, 12 West Green, Stokesley, N Yorks, TS9 5BB, UK

Tel UK: 07000 4 AMIGA
1642 713 185

Tel Int'l: +44 1642 713 185

Fax: +44 1642 713 634

eyeteck@cx.co.uk

www.eyeteck.co.uk

Voted AUI Amiga Company of the Year 1996/7

Next Day delivery to EC and USA/Canada. Worldwide deliveries in 2-7 days from receipt of faxed order and payment details. (eg SX32 next day to NYC £25.30)

UK inland next day insured delivery charges: S/w, cables, buffered if £3. 2.5" drives, accel's, mem boards £6; manuals £7; 3.5" drives, modems, psu's £8.50; Tws, CD+ £10. ("2day" Ringfax/email for other delivery costs)

UK bank/building society cheques, Visa, Mastercard, Switch, Delta, Connect, Postcard Money orders accepted. * A 3% surcharge is applicable 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 prices, specs and availability before ordering. If ordering by post please include a contact phone no. Goods are not supplied on a 'trial basis'. EXCE

All prices include VAT at 17.5%. VAT is not applicable to non-EC orders.

EYETECH



Remixing with the Pros

Dex and Jonesey have proven themselves to be some of the best dance remixers in the business. How do they do it?

Those undisputed stars of the club remix scene, Dex & Jonesey have already proven that a couple of Amigas and a copy of Protracker is enough to launch and sustain a career in the music business.

An inspiration to anyone struggling to express their ideas via a basic Amiga set-up, they've stayed true to their roots and not abandoned the machine that helped them crack the big time.

When we first exposed the Dex & Jonesey phenomenon back in the September 1996 issue of CU Amiga, they were riding high on the success of their remix of Josh Wink's Higher State of Consciousness which managed an impressive number 7 placing in the UK charts. Since then they've seen the remix work continue to roll in from the biggest names, with some recent jobs including makeovers of Hardfloor's awesomely classic 'Aperience 1' and Usura's 'Open Your Mind'.

We spoke to Dex, otherwise known as Andy McEniry, to find out the secret of their success.

CU Amiga: How do you get your remixing

jobs? Do you have an agent or manager who gets work for you?

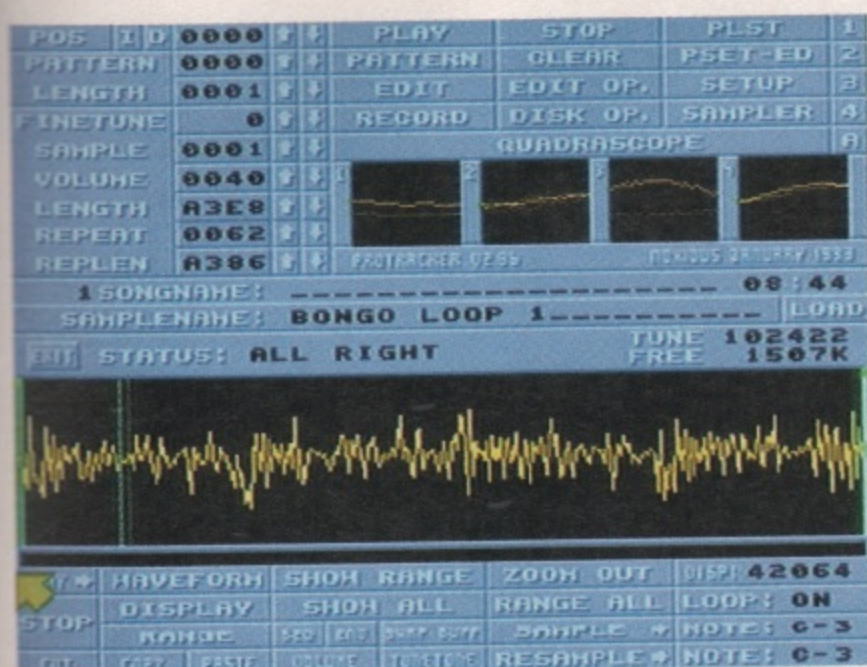
Dex: We originally started producing our own records as a result of our DJing work. We both had a few ideas and we knew the basic structure of dance records were all generally similar, so we decided to go ahead and make our own tracks. Our track entitled 'The Beginning' was signed to Judge Jules' label 'Bang International' and this led us to the Josh Wink situation.

We knew 'Higher state of Consciousness' was inevitably going to be re-released, so we took my original Strictly Rhythm import 12", and remixed it. We took it to Jules and it soon became the official remix. From there on we found a representative in the form of John Cecchini at Red Parrot Management. We knew him very well from his days at Zen, Dartford (the club at which we were resident DJs). John got us work from various labels and handled all enquiries about us.

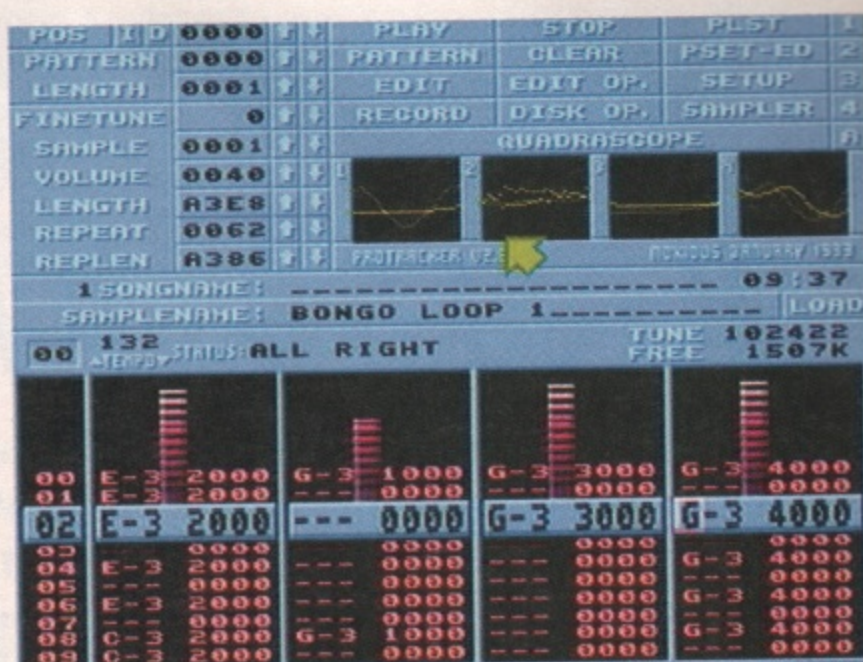
CU Amiga: Do you accept any remix job

Top tip: echoing samples

It's always good to echo samples as it gives them more feeling and depth. For the vocal echo of 'Open your mind' I actually used two samples, the first saying 'Open your' and the last saying 'mind'. This meant that I could freely re-trigger the 'mind' sample on every beat and have full control over the volume of the echoes.



▲ Good old ProTracker is at the heart of every Dex & Jonesey remix.



▲ In fact, two Amigas running two ProTrackers are used for the job to double up to eight tracks.

Top tip: jazzing up the percussion

When adding claps and hi-hats, don't just put them in at the standard places. Try moving them around or echoing them. For example, if you've got a hi-hat between every beat try adding a hi-hat 1/4 beat either side of every one, at half the normal volume. This gives a nice funky variation, and this can be used with claps as well.

that's offered to you (assuming the financial deal is OK) or do you pick and choose?

Dex: We don't accept any remix offer until we have actually heard the track. We only accept tracks that we believe we can create a good remix of and will not ruin the reputation we have been building up. If a track does not appear to have any hooks or original parts we do not accept it, as it would mean us basically creating our own track which will not be released under our name.

CU Amiga: Once you've got a remix job to do, are you given a brief from the record label as to how they want it remixed, or do they just leave it up to you?

Dex: Generally once we've accepted a remix offer, the record label involved will tell us roughly the style in which they would like us to remix the track, whether it be commercially based, vocal club style, banging dub etc... Apart from this they leave us to our own devices and wait for the result, which is the way we prefer working.

CU Amiga: What does the record label supply you with to do the remix?

Dex: If the track we are remixing is a new track, then we would normally receive a cassette copy of the current mixes and we then let them know whether we have accepted the mix or not.

If the track is a re-release or is familiar to us, such as Outrage's 'Tall 'n' Handsome' then we would know instantly whether to accept the offer or not. Either way, as soon as we have accepted a mix, the parts (loops, vocals etc.) are sent to us on a DAT if they are available, and we can then get straight on with the remix.

CU Amiga: Do you have any standard method of remixing a track that you use every time?

Dex: Generally our first step is to sample all the parts we have received. In the case of a very vocal-orientated track, such as Phil Collins' 'Dance Into the Light' we decide which vocals to use and which not to before we start sampling. The next step is to decide on a BPM according to the original track and style of remix required. Once the BPM has been agreed, we lay down all the samples and adjust them so they loop correctly at the new tempo. Theoretically all the samples should receive the same adjustments, but this is not always the case unfortunately.

We then basically decide on which beats, loops, bass-sounds etc. we are going to use and put everything on a Protracker block. We then cut out each element individually and in groups to decide which combinations of samples work well together and which don't.

After this is all done it's on to structuring the track as you would hear it in the final version, then some inspiration sets in and no two remixes ever go the same way.

CU Amiga: How do remixers get paid?

Dex: Most remixers get just a one off payment and no royalties are paid. In the case of 'Higher State' we had agreed a bonus payment if it got into the top 20 in the national charts. It actually went straight in at number 7.

CU Amiga: What advice would you give to aspiring producers and remixers?

Dex: The main advice production wise is obviously not to copy anyone else's style but to try to create a style of your own. Don't be afraid of trying different techniques. Also, read the manuals or text files that come with the programs you are using, they will help you no end.

Before I had even bothered to take a look at the text file that comes with Protracker, I was having to enter in all of the volume commands for snare drums one by one (ie typing C01, C01, C02... for 128 lines) until I finally realised that you can enter one line and use the ALT key with -, + or / to change the values without having to enter them all manually. It does save a lot of time, believe me!

CU Amiga: List the gear you use at the moment.

Dex: The Usura remix was done on the same basic equipment as Higher State of Consciousness: 1 Amiga 500, 1 Amiga 1200, 1 Realistic SSM-2200 mixer, 1 Sony TCD-07 DAT machine, 1 Technics 1210 turntable, 1 GVP DSS8+ Sampler and ProTracker 2.2a.

Top tip: background noises

A little trick I sometimes use and indeed I did in this remix was to copy the bass note to a spare sample slot and then make it a few octaves higher. This creates a sort of blip sound which I used in the first break to give an extra sort of depth. It doesn't really do anything for the song but it's there and subconsciously you notice it.

Of course you don't have to worry about any problems with the key because it is actually the bass sample which you've tuned already but it's just a lot higher. This technique can be used with any sample that is in key without any major worries, apart from loops for obvious tempo reasons.

A remix in the making: *Open Your Mind*

Usura's Total Recall-sampling melodic trance anthem 'Open Your Mind' has recently been revamped and re-released with the help of a rather harder than usual Dex & Jonesey remix. Andy McEniry takes us through the process from start to finish and divulges more than a few handy hints along the way...

1. Sample your wares

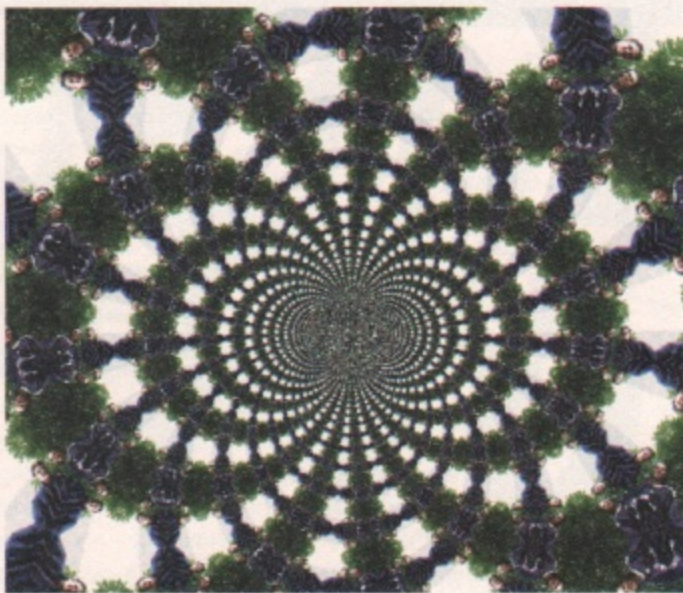
The first stage was to sample the various parts of the track and get them in sync with the chosen tempo, in this case 135 BPM. When I approached the next stage, which was creating one page with all the parts on it, I noticed that the main loop was six bars in length and not two, four or eight which is generally regarded as standard. The way the loop was structured was that the first four bars were the same but the last two had various note changes. All I had to do was work out these changes. The obvious way to do this was to play a bass note alongside the main loop and spot what changes were required. The bass note sample I was using was in key when triggered by the E key on the Amiga (which happens to appear as the E note in Protracker). I played the six bar loop over and over again until I had worked out the different notes required.

2. Creating the bassline

With the note changes sorted, I now went on to creating the bassline. I decided to go for a fancy bassline rather than a basic bass-note between each beat. The track was in key with my bass-sample when triggered with the E key (note: this does not mean it is actually in the key of E, it's just that I sample everything using the Y Key for better quality - 27,928kHz).

3. Sourcing the drumloop

Quite often, as in this remix, no drumloop or percussion was supplied, so the hunt for a drumloop was once again started. I have quite a vast record collection and that means a big selection of loops. After a little search I



finally found a volunteer. Moby's 'Go' provided the answer, so I sampled it up. There are two main rules I try to stick to when sampling drumloops and here they are...

a) Always try if possible to sample the loop at the same tempo as your track. The reason for this is that you should not have to adjust the pitch control in the program, which means you do not lose quality unnecessarily and also if you have more than one sample of the same length and they are all at the same pitch you can mix the samples together which will free up one of your channels allowing you to include an extra element. This is where the pitch control on the Technics 1210 record deck comes in useful.

b) Sample the loop with the bass cut out using a graphic equaliser. The reason for this is to prevent phasing or clashing of two or more bass drum beats. You can of course boost up the midrange or treble using the equaliser to give the loop more kick. This

also gives you freedom to use the rest of the percussion in the drumloop and then add a bass drum whenever you want to.

4. Structuring the track

With the main loops in key and drumloops sampled I was ready to start to structure the track. When creating a record that is aimed to be played at night-clubs, you need to consider the DJ has to be able to mix it in without much of an effort, so for this reason I gave 16 bars of beats before the bassline came in. I could have let it go for longer but you have to remember that when it's being played on a CD, for example in someones

house, they don't want to listen to two minutes of plain beats and loops, so a compromise has to be reached and between 16 and 32 bars I regard as acceptable.

Obviously you don't want all your percussion and drumloops in with the beat from the off, otherwise it has no way of progressing. If you listen to the intro you will notice that eight bars after the bassline kicks in, extra percussion comes up. In fact, I had only used the first half of my drum-loop before hand (one beat in length) and at this point I let it go the full length of two beats. This is a good way of making extra sounds appear without having to have another free channel.

With the DJ friendly intro gone, I decided to go into a little drop to stop the beat from getting monotonous and I also brought up the little blippy noise as described in the 'Top tips'. Then I also brought up some little sound effects that I found on a sample CD just to give more life to the track. Next it was time for the 'drop'.

The only requirement asked by Malarky records was that the general dynamics of the original drop were kept, as all the other mixes so far had gone off at a bit of a tangent. Once all the elements had been included it was just left to decide how to break out of it all and make the rest of the track different. There are thousands of possible combinations for how a track could go, and sometimes I think I've tried them all but there is always something new to do and that is the main objective: find them and use them. ■

Andy McEniry

"Open Your Mind" - Available now on Malarky records.

New! The Eyetech Complete Guide to Towering your A1200

Do-it-yourself EZ-Tower kits; Mk 2 EZ-Tower assembly; Keyboards and keyboard adapters; High density floppies; 100MB+ cartridge drives; Multiple IDE/ATAPI devices; Zorro slots; High-res graphics cards and scan doublers; PC-Pentium slave boards; Amiga-PC Networking & Integration; Port exp'n.

Do-it-Yourself EZ-Tower

If you are confident about undertaking a small amount of metalwork using hand tools then this is your lowest cost route to a really professional A1200 Tower system - capable of all the other expansion opportunities outlined on this page.

To build your D-I-Y EZ-Tower you will need to:

- Remove the back panel of the supplied PC tower by drilling out the aluminium pop-rivets
- Remove a section of internal shelving by making three short hacksaw cuts
- Trim down a removable plate using metal shears or a hacksaw and deburr any sharp edges with a file
- Fasten the custom back panel back in place using the screws provided or your own pop rivets.
- Clip the A1200 power adapter on to the PSU cables using a pair of pliers and the Scotchlock (squeeze-type) cable joiners provided.

That's it! You've just saved yourself £20 for around 20 minutes work.

The Eyetech DIY EZ-Tower costs just £99.95 - including all the components supplied with the ready-built Mk2 EZ-Tower.

The DIY EZ-Tower is also available to non-UK customers without the PC tower FOR EXPORT ONLY at £49.95 inc VAT @17.5%

Floppy drive and backup options

Be in mind that you should always have a bootable floppy drive connected to the internal floppy drive 34-pin header as this may be the only way to boot your computer in an emergency. (Catweasel, Diskplus etc are not bootable)

Four DF0 options are:

- Use your old drive with the faceplate & extension cable supplied
- Use the Eyetech EZ-DF0 adapter - £14.95, or £34.95 complete with new Sony floppy drive mechanism with built-in faceplate.

Backup and high density floppy drive options:

- Mount your external floppy in the EZ-Tower as DF1. (Its lead must be at least 70cm or you'll need a 50cm extension cable - £12.95)
- Use a DiskPlus interface (you can still use 4 drives on the IDE port - Catweasel doesn't allow this) for DD/HD/XHD Amiga/PC disks
- Use an Eyetech LS120 drive* on the IDE port. Reads & writes PC format 720KB/1.44MB diskettes & 120MB superdisks (£14.95/1 or £34.95/3)
- Use an Eyetech IDE Zip drive* for standard data interchange with PCs, Mac's (supported by Shapeshifter) and other Amigas.

* Eyetech IDE software required

Looking for an all-in-one package? Why not treat yourself to the Eyetech EZ-Tower Professional Pack?

Just look what you get for an unbelievable £799.95!

EZ-Tower with full UK specification A1200, Kickstart 3.1/Workbench 3.1 disks and manuals, mouse, mousemat, TV lead and 250watt psu.
EZ-Key keyboard adapter, **Windows95** keyboard. 25MHz '040 processor (approx 19 Mips) with MMU & FPU and 16MB of program memory.
1.7GB TowerDrive with Workbench 3.1 and shareware utilities preinstalled
8-speed CDROM including the **Eyetech 4-device buffered interface** with fully registered **EZ-IDE** CDROM/hard drive/IDE Zip drive/LS120 driver software (see main ad for EZ-IDE details)
880KB floppy drive including faceplate
 Fantastic software bundle including **Wordworth 4SE**, **Turbocalc 3.5**, **Datastore 1.1**, **Photogenics 1.2SE**, **Personal Paint 6.4**, **Organiser 1.1**, **Pinball Mania** and **Whizz**
 All items fully installed, tested and ready-to-go!

AND the option to have:

An **LS120 720KB/1.44MB/120MB** super floppy drive/cable installed in your machine for just £99.95 extra (at time of purchase only)

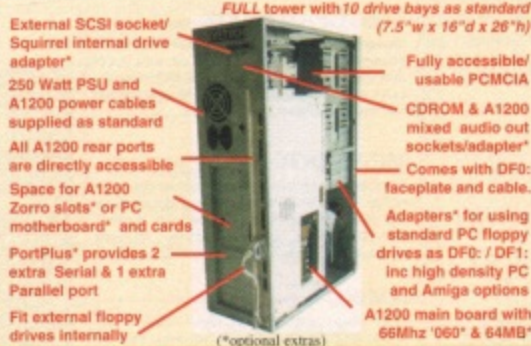
The EZ-Tower has great accessibility!



Remove 5 screws to remove the back and side panels. Another 4 screws and the PSU can be removed to allow you full access to the A1200 board.

The All-New Eyetech EZ-TOWER

"This definitely one of the easiest solutions to building your own tower." Amiga Format - July 1997
 "The Eyetech tower offers clever solutions with a Velcro easyfit mentality" Cu Amiga - Oct 1997



It Couldn't be Easier!

- Remove the case top and keyboard ribbon cable (No shield removal required).
- Slot in the ribbon cable from the optional PC/Amiga keyboard interface.
- Mount existing and new hard and floppy drives and CDROM units in the bays using the screws provided.
- Connect up the drives power and data cables.
- Clip the A1200 motherboard/base into the custom backpanel.
- Push on the power/HD/FDD LED adapter and the A1200 power connector.
- Put back the outer case. That's it! ...

Now You've Got Tower Power!

Zorro 2, Zorro 3 and other expansion options

The A1200 was originally conceived as a low-cost, entry-level home of performance then our best advice is to either buy an A4000 now, or computer with limited expansion capabilities. Inevitably some compromises had to be made in its design. Two of these limitations - which will fit into your EZ-Tower directly - when they become available early in 1998.

- There is no practical, reliable way to add a video slot (see below) Apart from graphics cards - see below - most of the desired expansion options can be achieved more cheaply and more reliably using other A1200 ports, such as:

The well-documented problems in the rev9 Buster chip used for bus control on the A4000 were carried over into the A1200 A1200 ports, such as:

- IDE port** - using the Eyetech 4-device buffered interface and EZ-IDE software - for multiple CDROMs, hard drives, Zip drives, LS120 super floppies, CD writers and tape streamers.
- Clock port** - using the Eyetech PortPlus (2xser + 1xpar), PortJnr (1xser), DiskPlus (2xDD/HD/XHD Amiga/PC floppies), EZ-IO* (2xDD/HD/XHD Amiga/PC floppies + 2xser + 1xpar) (*avail 12/97)
- Parallel port** - for frame grabbers, sound samplers & PC networking
- PCMCIA port** - for ethernet (Siamese RTG pack), frame grabbers, sound samplers and SCSI expansion.

Alternatively you may wish to consider adding a slave PC motherboard expansion option for the EZ-Tower. If you really need these levels within your EZ-Tower - networked to perform these and other functions,

What about PowerPC upgrades?

The Blizzard PowerPC boards from phase5 will fit in the trapdoor space of an EZ-Tower'd A1200, with or without a Zorro expansion board. However you should bear in mind that the PPC boards will be limited to providing 'subroutine' support to specially written 680x0 programs (just like an expensive FPU) for the foreseeable future. If and when a proper native PPC Amiga operating system is available Eyetech will start stocking and supporting these boards directly.

Graphics cards, scan-doublers and the single-slot Zorro option

The Eyetech single slot Zorro adapter fits close to the A1200 main board allowing a PC motherboard and selected PC cards to be fitted simultaneously. It has primarily been designed for use with Amiga Graphics cards such as the Cybergraphics 64/3D from phase5. Please note that as there is no practical, reliable way to abstract the video signals present on the A4000 Zorro video slot from an A1200 (without soldering onto the main board) you cannot successfully use the built-in/optional scan doublers on the Picasso IV or Cybervision64/3D boards with any add-on A1200 Zorro adapters.

To overcome this limitation Eyetech has produced two plug-in adapters which can be used either individually or together - depending on your existing monitor's scanning capabilities.

The **AUTO-MON** adapter works in conjunction with the Cybervision 64/3D card to automatically display the output of your current program whether retargeted to the CV64/3D card or displayed via the AGA chipset. If you have an Amiga-compatible multisync monitor the **AUTO-MON** is all you need for seamless use of your Amiga.

The **EZ-VGA** adapter is an external unit that attaches to the 23-pin video socket of any Amiga and automatically scan-doubles any 15KHz screen mode signals so that they display correctly on a normal PC SVGA monitor. PC-compatible screen mode signals (DBLPAL, Productivity, Super72 etc) are passed through unaltered.

AUTO-MON adapter £39.95
EZ-VGA adapter £79.95

Love your A1200 but need PC compatibility for work or study purposes? Then you need Eyetechs EZPC-Tower system for your A1200.

Just £899.95 gets you a ready-to-run system with:

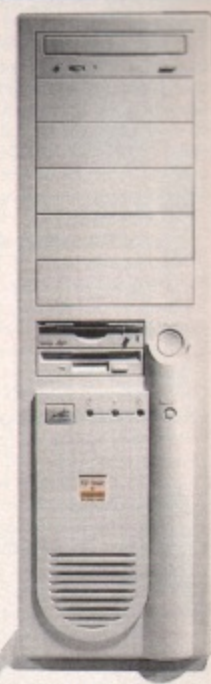
- A full Amiga EZ-Tower system ready to take your A1200.
- Jumpersless 266MHz-capable 'TX' PC Pentium board with 166MHz cpu, 32MB of memory, Windows 95 keyboard, mouse and Windows 95 operating system.
- High performance, high res graphics card with full screen/full frame rate MPEG playback (with sound).
- 32-voice high performance sound card with direct-to-disk, CD-quality recording software.
- 1.7GB hard drive, 16-speed CDROM, 2 x serial, 1x parallel ports and 1.44MB high density floppy drive.

AND either the Eyetech EZ-PC integration pack:

- The Eyetech **EZ-VGA** compact, external Amiga scan-doubler to display 15KHz modes - eg games - on a PC SVGA monitor.
- PC-Amiga networking software** which allows all PC side hard drives, floppy drives, CDROM drives and networked drives to be read from and written to by the Amiga, including cable.
- The Eyetech **EZ-Key** PC keyboard adapter for the Amiga
- A remote desktop switchbox to flip monitor and keyboard between the PC and Amiga sides

OR the Eyetech Siamese pack (additional £99.95):

- The full **Siamese system version 2.5** software including retargetable graphics.
- The Eyetech **EZ-VGA** compact, external Amiga scan-doubler to display 15KHz modes - eg games - on a PC SVGA monitor
- The Eyetech **EZ-Key** PC keyboard adapter for the Amiga
- The **AUTO-MON** automatic monitor switch to display either the PC graphics card output (including retargeted Amiga screens) or the scan-doubled Amiga output for Amiga screens - such as games - which will not retarget onto the PC display



The A1200 EZ-Tower

All EZ-Towers ...



...feature a slide-out mounting frame for fitting either ...



...a standard PC motherboard and cards, or...



...a Zorro board and cards (as well as your A1200).

Code	Description	Price £	Code	Description	Price £
EZ-Tower cases, systems, keyboards & accessories					
CASE-FT-1200	EZ-Tower case	119.95	ADPT-Z2-A12/1	1-slot Zorro 2 adapter	99.95
CASE-FT-KIT	EZ-Tower DIY option	99.95	ADPT-Z2-A12/7	7-slot Zorro 2 adapter	179.95
CASE-FT-EKXT	EZ-Tower with PC case	49.95	ADPT-Z2-KBUG	EZ-Key upgrade for Z2 adp	35.00
A12-MGK-EZTW	EZ-Tower w/ A1200 system	799.95	GFX-CV643D	Cybergraphics 64MB Z2 card	159.95
APC-CF1-EZTW	EZ-Tower w/ Pent PC syst	899.95	ADPT-MONSM-AUT	AUTO-MON switch for CV643D	39.95
APC-SIA-UG	Siamese upgrade for above	99.95	ADPT-GFX-SEBL	EZ-VGA 23p in-line scandbl	79.95
KBD-A4000	A4000 k/b intl 6p minidin	39.95	INT-121-CD4	4-dev EIDE buff interface	39.95
ADPT-KBD-6P5P	6-pin mini to 5 pin adp	6.95	DVR-EZIDE	Univ'l IDE/ATAPI dvr/enhan	34.95
KBD-WIN95	Win95 kbd 5p EZKEY compat	19.95	DVR-EZIDE-SP	EZIDE w/ INT-121-CD4/LS120	17.50
ADPT-KBD-1200	EZ-Key auto Amiga/CD 5pin	39.95	HD3-LS120	ATAPI 0.72/1.44/120MB FDD	114.95
ADPT-AUD-EZTW	Audio mixer Amiga/CD RCA	19.95	HD3-LS120-CV3	3 x 120 MB superfloppies	34.95
ADPT-SCS-EZTW	Squirrel int/ext SCSI adp	19.95	INT-12C-DSKPL	DiskPlus FDD i/f DO/HD/XHD	69.95
ADPT-DF0-TWR	Floppy extn cab & faceplt	12.95	INT-22-IDEPL	6xIDE(exp->10)+DD/HD/XHD	79.95
ADPT-DF0-FP	Int floppy drive faceplat	6.95	INT-SER-PPL	2 x 460Kbaud s + 800K/s P	89.95
INT-FDD-DF0	EZ-DF0 Sony PC FDD i/f DF014.95	14.95	INT-SER-RJR	1 x 460Kbaud highspeed ser	46.95
FDD-INT-DRINT	Sony FDD w/faceplate/EZDF0	34.95	ADPT-HD-2/3	2.5"HD->3.5" bay & cab adp	12.95
PLUG-IEC	Rewirable PSU outlet plug	4.95	CAB44-2W-60C	2.5"HD 60cm cab 44-44 way	19.95
Zorro adapters, graphics cards, LS120 & floppy drives					

Eyetech Group Ltd

The Old Bank, 12 West Green, Stokesley, N Yorks, TS9 5BB, UK

Tel UK: 07000 4 AMIGA
 01642 713 185

Tel Int'l: +44 1642 713 185
 Fax: +44 1642 713 634

eyetech@clx.co.uk
 www.eyetech.co.uk

Voted AUI Amiga Company of the Year 1996/7

EYETECH

Next Day delivery to EC and USA/Canada. Worldwide deliveries in 2-7 days from receipt of faxed order and payment details. (eg SX32 next day to NYC £25.30)

UK inland next day insured delivery charges: S/w, cables, buffered V1 £3; 2.5" drives, acol's, mem boards £6; manuals £7; 3.5" drives, modems, psu's £9.50; Twrs, CD+ (2day) £10

Ring/fax/email for other delivery costs

UK bank/building society cheques, Visa*, Mastercard*, Switch, Delta, Connect, Postal/ Money orders accepted. * A 3% surcharge is applicable 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 prices, specs and availability before ordering. If ordering by post please include a contact phone no. Goods are not supplied on a trial basis. EAOE. All prices include VAT at 17.5%. VAT is not applicable to non-EC orders

All You Need For Internet And Comms!

STFax Professional [available November]

STFax Professional is a new commercial fax program for the Amiga containing the advanced features you would find within commercial PC fax software. STFax has been in the shareware for the last few months, and the brand new commercial "professional" version offers even more advanced features plus voice control for voice modems - use your Amiga as a digital answer machine, create a fax on demand service (ideal for small businesses. Allows your customers to contact you at any time and use fax on demand to remotely download facsimile information about your products!) and create advanced voice control scripts. You could even set up your own voice answering service as you find when phoning large companies such as British Airways: "press 1 on your telephone to be put through to an operator, press 2 to..." etc. Why not create your own mini-BBS? Point and click BBS setup allows you to create multiple doors (with or without secure access), custom ASCII menus and greeting messages. Allow your user to download files within a door, upload files and even send you messages via the BBS. Ideal for the small/home business, family or other.

Full Fax Features:

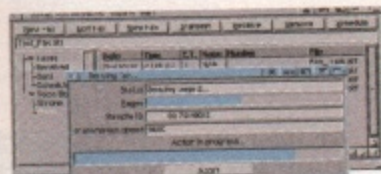
- Support for all fax/modem classes (1, 2, 2.0)
- Phonebook (store all your favourite fax and telephone numbers)
- Scheduler (store fax messages to be sent at specified times)
- Reports (quickly see when a fax was sent and received)
- Datatypes support for image conversion
- Printer driver to redirect all print-outs to a fax file (print from Wordworth, Pagestream etc!)
- Viewer for viewing outgoing/incoming fax messages
- Fax forward (forward faxes to another machine)

Advanced Voice Features:

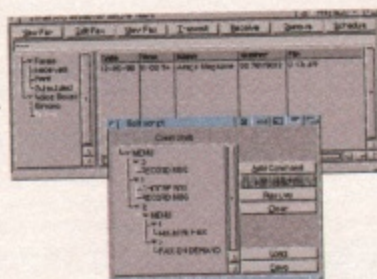
- Use your Amiga as an answer machine (digital messages, unlimited storage space!)
- Advanced voice scripting - create your own voice network or fax on demand service
- Use your modem as a telephone (make and receive calls via STFax Pro and your modem)
- Remote access (listen to your messages from an external source. ie. from another country!)
- Caller-ID (see exactly who has called and left you a message)

Your Own Mini-BBS:

- One or more secure 'doors' (access areas)
- Point and click setup
- Allow users to upload files and send messages
- Custom greetings and menus



Main Window (showing a fax transmission)

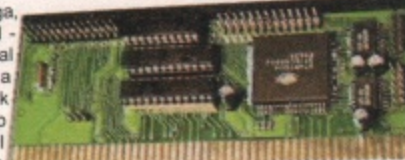


Advanced Voice Script Editor

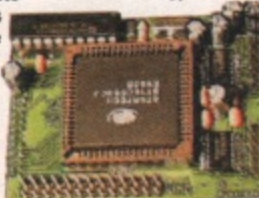
High Speed Serial Cards

from £44.95

The **Hypercom** range of high-speed serial cards offer your Amiga the fastest connection to the Internet, for comms and fax transfers. Available for the Amiga 1200 (these serial cards are placed within the internal clock expansion port - leaving the PCMCIA port and trapdoor free!), A1200 Towers and Zorro-II/III based machines (Zorro version suitable for A1500/2/3/4000 or a A1200 tower). Just lift the keyboard from your Amiga, locate the clock port and then drop in the card - easy. These cards are currently the fastest serial cards available for the Amiga (allowing up to a 460,800bps connection), making the Internet work faster for you! The Hypercom 3/32 cards also ship with a buffered high speed parallel port which will drastically improve printing speeds on a laser or quality ink jet printer - the manufacturer claims printing can be up to 4 times faster than the standard port. The Hypercom 3/32 cards contain a 9-pin and standard 25-pin serial ports whereas the Hypercom 1 ships with one 25-pin port. Serial and parallel drivers included. English documentation.



Hypercom 32



Hypercom 3

Model	Machine	Specifications	Price
Hypercom1	A1200	1 x 460,800bps highspeed buffered serial port	£44.95
Hypercom3	A1200T	2 x 460,800bps highspeed buffered serial ports 1 x 500K bytes/sec buffered parallel port	£89.95
Hypercom3Z	Zorro-II	2 x 460,800bps highspeed buffered serial ports 1 x 500K bytes/sec buffered parallel port	£79.95

Vaporware Software

If you are not interested in purchasing NetConnect you can also buy Vaporware Products individually either by disk, a keyfile sent via e-mail (quickest and cheapest method) or on CD-ROM (currently only Voyager-NG and Genesis can be purchased on CD-ROM) - CD versions have added extras such as pre-setup MIME types (VNG), HTML documentation etc.

	On CD	By Disk	By Email
Genesis - New TCP/IP Stack for the Amiga [Available December]	£28.00	£22.00	£20.00
Miami - TCP/IP Stack for the Amiga	n/a	£28.00	£26.00
Octopus - Brand new dock bar creator [Available December]	n/a	£12.00	£20.00
Voyager Next Generation	£28.00	£22.00	£10.00
Microdot-II	n/a	£20.00	£18.00
AmIRC	n/a	£20.00	£18.00
AmFTP	n/a	£20.00	£18.00
AmTalk	n/a	£14.00	£12.00
X-Arc	n/a	£14.00	£12.00
AmTelnet	n/a	£17.00	£15.00
AmTerm	n/a	£17.00	£15.00
AmTelnet + AmTerm Package Deal	n/a	£20.00	£18.00
AmigaNCP - Amiga to Psion series software	n/a	£27.00	£25.00

• 5% Discount when 2-4 Vapor products are bought, 10% Discount for 5+

£29.95 NetConnect v2

NetConnect v2 is even easier to connect to the Internet! Launch the new Wizard GUI, choose your modem, enter a few user details and let the Wizard do all the rest for you! Simple! With version 2 you don't even need to worry about the provider - everything is automatic, everything is point and click! **Amiga Format** concluded about **NetConnect v1** (June 97 issue): "Almost the perfect package for the Amiga Internet user", "If you need to get online, this is the easiest way to do it" and "It's good value for money too". We have listened to our NetConnect v1 users, noted their comments and added some other new features. NetConnect v2 is available on CD-ROM and floppy disk.

11 Commercial Programs within NetConnect v2!

AMITCP-GENESIS

Genesis is a new professional TCP stack, enhanced and developed by us and NSDI (developers of AmiTCP) with full GUI control - point and click Internet setup! Allows Internet and local networking connectivity.

MICRODOT-II

A superb combined email and newsreader within one GUI! Contains all the major features you would expect - MIME attachments, support for POP3/APOP, search function, multiple signatures, multiple user support, Amex port etc.

AMIRC

Chat online with friends about topics, join conferences, organise mass meetings. The IRC is one of the most addictive elements of the Internet - AmIRC is the best Amiga IRC client.

AMTELNET

Telnet into remote computers (from anywhere in the world) - edit files on a computer in Germany from your Amiga, maintain directories for your web pages, check the status of the network, play online games.

AMTERM

AmTerm is a communications package which allows you to connect to a BBS, to another user (direct link), transfer files via a serial connection (Amiga-Amiga, Amiga-PC etc).

VOYAGER-NG

Voted the best Amiga web browser by CU Amiga - supports SSL for securing ordering, HTTP 1.1 (for the fastest web access) fastmrm AGA support (use fast mem to store images) and very soon JAVA™, Javascript and AGA fastmrm support!

AMFTP

AmFTP is the ultimate Amiga FTP client. Download/upload programs from any FTP site, also supports ADT to allow you to download the latest files from the AmigaNet and Archie to search FTP sites for files.

AMTALK

A direct chat client for the Amiga. Acts as an online answerphone service for people to leave messages. You can talk directly 'realtime' to friends on the Internet.

NETINFO

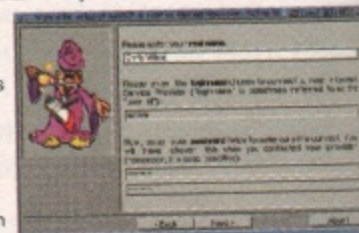
NetInfo is a cool tool for analysing the network and the people connected to it - 'finger' your friends to see if they are online, 'ping' servers to find the response speed.

X-ARC

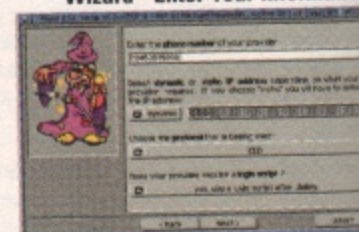
X-Arc is the Amiga's answer to WinZIP™ - automatically decode LHA/LZX/ZIP files, edit the contents of these archives, create your own archives. Full integrates with NetConnect v2!

NetConnect v2 is a state-of-the-art Internet package aimed towards Amiga users wanting to connect for the first time (absolute Internet beginners), those who have been connected a few months (novices) and now, due to the keyfile nature of the software, is suitable for advanced Internet users who want to use the modules contained within NetConnect with their existing TCP stack. **NetConnect v2 enhancements include:**

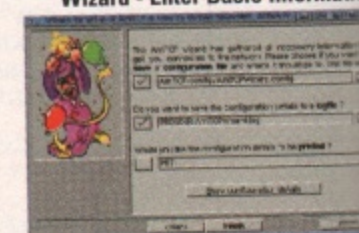
- **AmiTCP-Genesis** - NetConnect v2 users will be the first people to use this new TCP stack! Based on AmiTCP Pro, we have added a number of changes - the main additions are the new Wizard, MUI based dialler, multi-user support, 'events' control, status window (time on 'net', connection speed), new prefs.
- **Setup Wizard** - makes configuring your ISP a doddle. Choose your modem, enter some user details and then the rest of the process is completely automatic! This is true Windows95™/Mac OS 8™ style connectivity! See the example pictures - point and click Internet configuration!
- **New programs** - AmTalk, NetInfo and X-Arc (a brand new WinZIP™ style archive management tool. Downloads lha/lzx/zip files from Voyager etc, auto-extracts them into X-Arc's GUI and allows you to control the files).
- **MIME Prefs** - Central MIME prefs interface means that you only need to setup file types once with one nice interface! This saves masses of time and effort (esp. for beginners).
- **Octopus** - Octopus is a new dock bar creator (based on the original NetConnect bar) which allows you to create multiple dock bars with point and click ease - just drag the icons you have created into the icon bar! This new version supports 'animated' icons, the ability to launch another bar from an icon and to create background colours for icon. NetConnect v2 is pre-setup with its own icon bar for ease of use.
- **Programs are now keyfile based** (can be used with any TCP stack - Miami etc)
- **Extras pre-configured:** MIME types (CD only), datatypes (CD only), online help files etc
- **Updated, latest versions of the modules** (Voyager-NG, Microdot-II, AmIRC, AmFTP etc)
- **Printed manual** - Install NetConnect and understand the Internet quickly and easily (with advice from NC users!)
- **Plus many more smaller changes and additions**



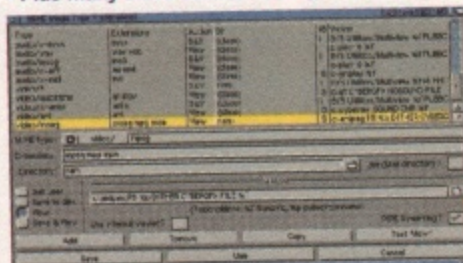
Wizard - Enter Your Information



Wizard - Enter Basic Information



Wizard - Configuration Completed



Central MIME Preferences

NetConnect v2 CD (contains many extras: datatypes, MIME types (for www browsing) and much more)	£52.95
NetConnect v2 Floppy Disks (only contains the core programs & online help documents)	£54.95
NetConnect v2 Upgrade from v1/v1.1 (registered NetConnect v1/v1.1 users only)	£call!

DELIVERY CHARGES

S'Ware	- £1.00 for UK delivery
	- £1.50 for EU delivery
	- £2.00 World delivery
H'Ware	- £4 for 2-3 day delivery
	- £6 for next day delivery
	- £call for Saturday delivery

Make cheques/P.O.'s payable to **Active Technology** and send to the address listed opposite. We can accept credit or debit card orders. For any additional information call us ASAP!

WANT MORE INFORMATION?

We provide a new information pack (Internet Informer iss.2) covering NetConnect and the modules (Voyager, MD-2 etc), the modems we offer, connectivity discounts and a set of frequently asked questions and answers. Internet Informer iss.2 also gives information about the Internet, why you should connect etc!

You can also access the NetConnect homepage for additional information, latest news and to download a time-limited demo version of the software:

<http://amigaworld.com/netconnect>

ACTIVE

Oval House, 113 Victoria Road, Darlington, DL3 8YT

NEW PHONE NUMBER
Tel: 01325 460116
Fax: 01325 460117

E-Mail: active@enterprise.net



Latest Technology Modems

K56Flex modems are here! Download software and web pages **up to** twice the speed of a 28.8 modem. 56k modems will operate at 33.6K speeds for uploading but you can cut your phone bills drastically when using the 56K technology! Isn't it about time you upgraded that 14.4 or 28.8 modem? For further information about the new K56Flex (Rockwell developed) technology contact us!

We only supply quality **branded** modems (Dynalink UK Ltd or Diamond SupraExpress), which may cost slightly more than their unbranded competitors, but they ship with a 5 year warranty, the knowledge that a UK company offers support/information and you are buying a modem with quality (Rockwell based) components.

K56Flex modems need to connect to another K56Flex modem in order to use 56K technology (make sure your provider supports K56Flex technology). Call for further technical details.



33.6k External Data/Fax/Voice

- Quality branded Dynalink or Supra modem
- 33600 bps DATA/FAX/VOICE modem - true v34. Throughput to 115,200 (230,400 for K56Flex) BPS via V.42 bis data compression
- Group 1, 2 & 3 send/receive FAX (14.4)
- Voice Commands - DSV2 upgradeable (by software)
- V.80 (video conferencing) capable
- Call Discrimination
- Fax on demand
- Caller ID and Distinctive Ring enabled
- Simultaneous voice and data (S.V.D.)
- Speakerphone for hands-free operation
- Upgradeable ROM chip
- Includes headphones/microphones - for voice control
- 5 year warranty
- Serial cable included

£79.95

56k External Data/Fax/Voice

Specs. as the 33.6k external with some general information:

The top of the range Dynalink 56Flex makes sophisticated communications more affordable and easier to use than ever before. With full-duplex speakerphone, voice mail and free head/microphones you can now use a single phone line for all your communications - voice, fax, and file transfer. The main advantage of a K56Flex modem is crystal clear voice recording (via STFax Pro), faster downloads (making the Internet work faster for you) and the latest comms technology.



£109.95



£149.95

External ISDN

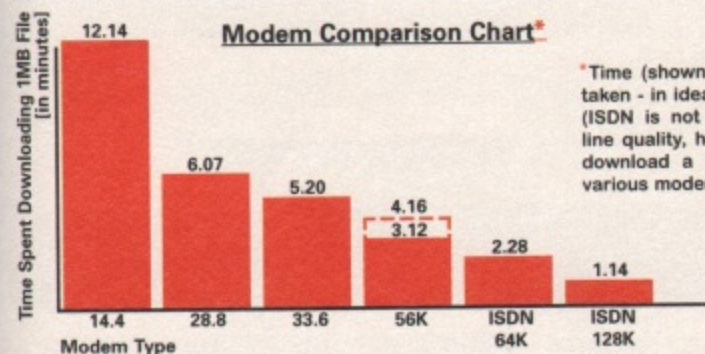
Tired of waiting for your modem to download a favourite Web page or retrieve large files? Imagine surfing the Net at a rock solid digital 128,000 bps connection with a Dynalink ISDN terminal adaptor, or nearly five times the speed of a 33.6 Kbps analogue modem. With an analogue port to ring standard telephones, fax machines or modems, the Dynalink ISDN has been designed to be the easiest and most cost-effective route to high-speed access to the Internet and remote LANs.

ISDN works on your standard Amiga in conjunction with a Hypercom or other high-speed serial card and Genesis, NetConnect or Miami. You also need an ISDN line installed to use an ISDN adaptor. **Please note:** ISDN adaptors cannot be used directly as fax machines, you would need a cheap analogue modem to handle this (which connects to the ISDN TA).

- 56/64/112/128 Kbps connections
- Voice/data on both B-channels
- Caller ID enabled (where available)
- AutoISDN® application
- Analog Support: Rings up to 3 telephones
- User-assigned distinctive ringing
- Multilink-PPP
- Flex Channel Bandwidth-on-demand
- PAP/CHAP authentication

Choosing Your Modem

The graph below should help you choose the modem for your needs. For the price, a 33.6K modem is best value for money as a serial card is not absolutely necessary. A 56K modem is a good option for those wanting maximum speed but have a limited budget (the red bar shows the maximum connection speed - as most '56K' modems connect around 44-48K the extended bar shows the 'realistic' connection). You need a serial card with a 56K modem. For the true 'net surfer', ISDN is the ultimate option - solid 64/128K connections, constant speeds but higher running costs. Note that transfer rates with analogue modems can vary depending on factors such as line quality. Call for further information!



*Time (shown in minutes) taken - in ideal conditions (ISDN is not affected by line quality, however) - to download a 1MB file by various modems.

Various Modem Pack Options

Various money saving packs are available. These are all based on either the 33.6k, 56k or ISDN modem plus a collection of extras. Call us for other pack options if you have your own pack idea!

CODE	PACK CONTENTS	PRICES £
PK01	33.6 Modem & STFax	£ 89.95
PK02	33.6 Modem & NetConnect	£109.95
PK03	33.6 Modem & NetConnect & STFax	£119.95
PK04	33.6 Modem & NetConnect & Hypercom1 & STFax	£149.95
PK05	33.6 Modem & NetConnect & Hypercom3Z & STFax	£159.95

ADD £25 for a 56k Modem (instead of the 33.6k model)

ADD £55 for an ISDN Modem (instead of the 33.6k model)

- All packs come with one month free connection to a major Internet Service Provider
- Other options may be available - call
- Choose between the CD or Floppy disk version of NetConnect with your modem pack
- STFax Professional will be despatched on release

AMIGA REPAIRS

FIXED PRICE ONLY £38.99 Incl. (A500+/600 and CD32 Only)

- *Price includes PARTS, LABOUR & VAT
- *90 Day Parts and Labour Warranty
- *24 Hour turn-around on most repairs
- *Includes FULL DIAGNOSTIC, SERVICE & SOAK
- *Upgrades fitted free with repair
- *If drive/keyboard needs replacing + £10.00 (add £6.00 for return carriage)

EST.
16 Years

AMIGA A1200 Repairs only £48.99 Fully Inclusive

*****Repairs while-you-wait add £10.00*****

COMPONENT SPARES

We are the largest distributor and retailer of Amiga spares in the UK, with an inventory of some 150,000+ parts. Large quantity discounts and catalogue available to trade.

LOW PRICE SPECIAL OFFERS

A500 Internal Drive	£28.99	A500/600/1200 PSU	£25.99
A600/1200 Int.Drive	£28.99	A1200 Keyboard	£34.00
KickStart 2.05	£19.90	A600 Keyboard	£19.00
Super-Buster IC	£15.00	A500 M/Board v6	£58.00
A520 Modulator Xchg	£18.00	CD-32 PSU	£25.00
8520 CIA	£12.00	CD-32 CDROM Drive	£35.00

CHIPS KEYBOARDS CASES PSUS DRIVES PCBS

AMIGA PC KEYBOARD ADAPTOR (All Amigas) £25.00 PC Keyboard £16.00

DART Computer Services SALES

105 London Road (0116) 2470059

LEICESTER FAX (0116) 2558643

LE2 0PF



Postage & Packing add £3.00
The Guild of Master Craftsmen
Computer Services

MYST 25.99

Capital Punishment 14.99

IN STOCK!

One Low Price!

Trapped 2

Onescapee

Sh. of 3. moon

Wendetta

Flyin' High

Big Red Adv.

...and more!



22.99
ZONE
0181 / 938-3677

www.x-zone.demon.co.uk

Orders only. Have your credit card ready.

Workbench 2000

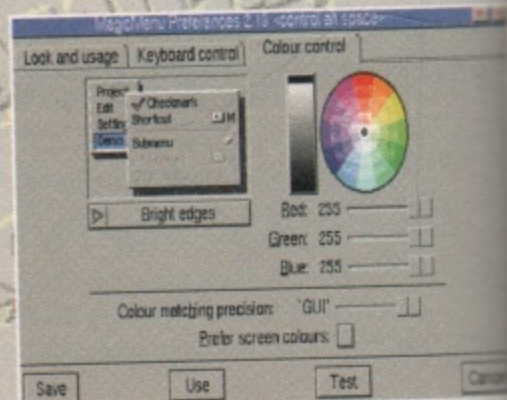
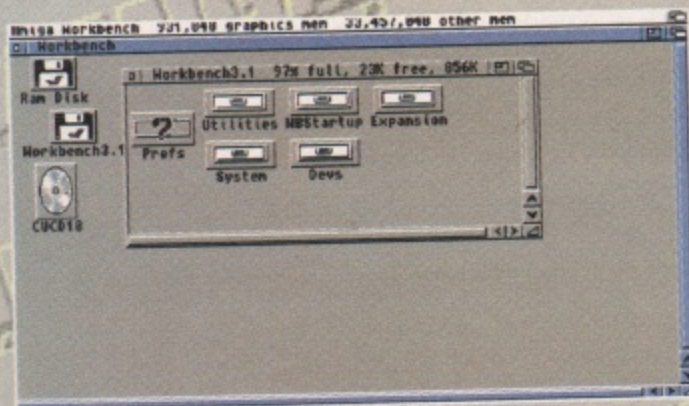
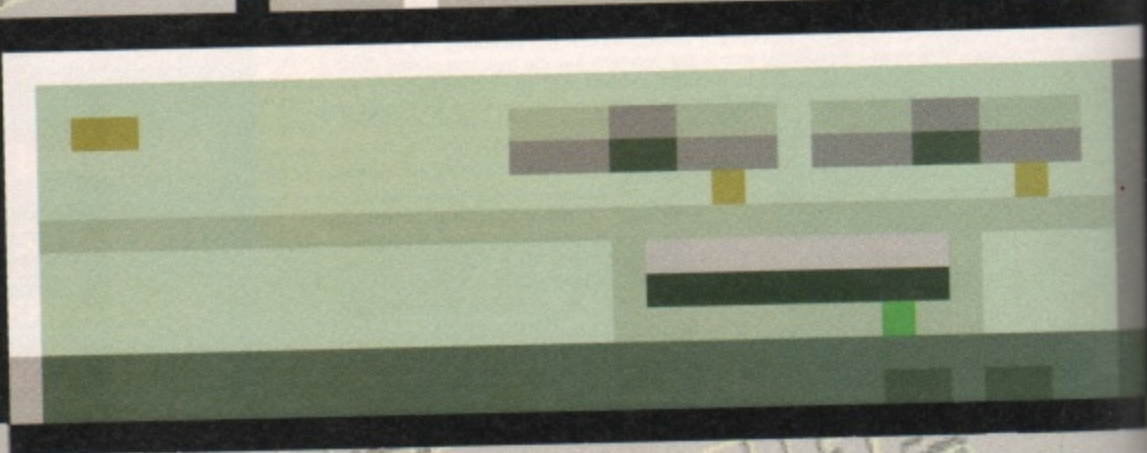
Don't wait for Amiga International to release a new Workbench, revolutionise it yourself with the help of the ultimate Workbench enhancement pack on this month's CD!

When the Amiga first came out, Workbench was really quite revolutionary, despite what people may say about 1.3 now. In 1989 we got Workbench 2.0 with its more restrained white/grey/black/blue colour scheme and a host of other improvements, such as commodities.

Finally Workbench 3.0 arrived, with a lot more colours and a few other enhancements. That was in 1992, and very little has happened since. Workbench 3.5 should be released by Amiga International sometime in 1998, but there's a lot more you can do with the current Workbench with the addition of a few well chosen programs to your WBStartup drawer.

This article will show one of the possible routes to building the "Ultimate Workbench". This will enhance both the appearance and abilities of Workbench, making using your Amiga an even more pleasant experience. All of the programs mentioned here are on this month's cover CD, in the CUCD/Magazine/UltimateWB drawer.

▼ Left to right...
Before: the lowly grey and blue...
After: fully
tooled up and
ready for action.
Spruce things up
with MagicMenu.



ToolsDaemon

While you can add items to the single Workbench Tools menu, this is very limited. ToolsDaemon allows you to create as many new menus as will fit on your screen. You can have separate menus for utilities, games, internet, prefs programs and so on. ToolsDaemon adds its own preferences program to the Tools menu, and from here you can add as many menu items as you want.

The preferences editor uses drag and drop, just drop a program icon onto the window and it will be added to the menus. I have all my preferences programs available from a single menu, which I created by dropping each icon from my preferences drawer onto the window. Combined with Magic Menu to alter the way the menus work, you can have a very powerful menu system.

Looking good

Anyone who spends a lot of time using their computer will agree that a pleasant working environment is important, and there is quite a lot you can do about this with the standard Workbench software. Using the system preferences programs Font, Screenmode and WBPattern, you can alter the basic appearance of Workbench to suit your taste.

However, there are some points to consider.

Running a large 256 colour AGA screen will slow down your Amiga, even if it has a fast processor, and using a large backdrop picture can use lots of Chip RAM. Last month's CUCD contained plenty of backdrop pictures and patterns. With an AGA screen you are probably best off with no more than 64 colours on your Workbench, and a fairly small pattern with no more than 32 colours, leaving the other colours free for Workbench and other programs.

If you have a graphics card, these limitations no longer apply, so a 256 colour Workbench is entirely practical. Both CyberGraphX and Picasso 96 allow you to run Workbench in even higher depths, with 64,000 or 16 million colour screens possible.

Icons

One serious limitation of the Amiga's icon system is that there is no way of including colour information in an icon. If your palette is different from the icon designer's, the icon will look odd on your Workbench.

The solution is NewIcons, which extends the icon system to allow the icon creator to specify individual colours. If an element of the icon is supposed to be dark red, it will be displayed in dark red, or the closest available colour. This is why we use NewIcons on the CU Amiga CDs.

Commodities

Almost since the Amiga was released, programmers have been writing additions and modifications to its operating system. At first

Patches, hacks and kludges

The Amiga has always been a computer the user can customise to their own preferences, so the operating system lets programs alter standard system functions. The "patches" mean that it is possible to alter or upgrade specific functions without having to upgrade the Kickstart chips. Some people consider this behaviour system-unfriendly, but this is exactly what the SetPatch program supplied with Workbench does, and the reason the system was designed to make this possible.

You can have conflicts where more than one program attempts to patch the same function, so it is wise to install Workbench enhancements one at a time. Make sure you have one working just as you want it to before trying another. This also makes it easier to go back to your old setup if you decide to. The different definitions are:

Patch: A program you like that alters the operating system. **Hack:** A program you don't like that alters the operating system. **Kludge:** Somewhere in between

these used fairly system-unfriendly methods of "hooking" into the operating system, so Commodore introduced commodities.

Now Aminet contains hundreds of commodities to enhance your Workbench. Running lots of small commodities can be a nightmare when you want to alter the way they work and interact, so programmers came up with the idea of a multi-function commodity, one program to handle a number of different patches and actions. The most comprehensive of these is MCP (Master Control Program), and best of all, it's totally free.

All the author asks by way of registration is that you let him know you are using it. As MCP incorporates so many different functions, installing and using it is covered in a separate section. You will be able to add so many useful functions to your Amiga that it will be at least a couple of days before you come back to read on from here.

The King of shell enhancements

Although the title is Ultimate Workbench, the shell is an important part of using the Amiga. Many things can be done better in the shell than in Workbench, but it can often be a bit of a pain to use.

Typing in long path and file names, only to find it's failed because of a minor typing error is enough to put anyone off. Isn't it easier to type the first few characters and let the shell complete the name for you, or to be able to drop an icon onto the shell window and have its full name appear at the cursor position?

That's what David Larsson thought, so he wrote KingCON. He also added many other useful features, such as scroll bars and the ability to save the contents of the shell window to a file.

Visual Prefs

VisualPrefs allows you to alter the appearance of just about every system gadget. Its preferences editor shows a sample display, updated in real time, so you can see exactly what each change does. It may not make your Workbench any faster or efficient, but it does make it yours.

Where did I put that file?

A useful feature of other operating systems is a file finder, something the Amiga never had as standard. Finding a file if you don't know its exact name and location can be a laborious process, but aren't computers supposed to save us from all that tedious stuff?

With a name like SimpleFind you would expect this program to be easy to use, and you would be right. You may also expect it to be fairly basic, but it isn't. Not only will it find files anywhere on a hard drive, Zip disk or CD, you then have the options to copy, delete or display any of the found files. You can even unpack archives, or create a new archive of the selected files.

Fast program starting

KingCON gives you much faster access to files from the shell, but it can still take a lot of mouse clicks to start a program buried several sub-directories deep on your hard drive. Workbench gained an extra menu, the Tools menu, from version 2, but it's not particularly user-friendly, and putting everything in one menu is very limiting.

Enter ToolsDaemon, which allows you to create as many different menus as will fit on your Workbench screen.

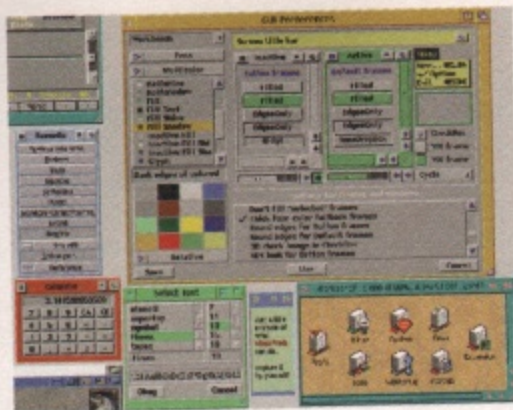
Small, but SO useful

As well as its Finder, there is another feature worth "borrowing" from the Mac, the global

NewIcons

NewIcons is a lot more than an icon collection. It completely changes the way Workbench reads icons, giving a flexibility in icon design that is impossible with the standard icon system. The installer will install the system files and offer to add the new images to your standard system icons. You will have to change the others yourself, using the tools provided with NewIcons. There is also an uninstaller provided. There was a massive collection of icons provided on last month's cover CD. NewIcons is used as the default setup for all the CU Amiga CDs, since the icons look as close to their intended appearance as possible, whatever Workbench palette you use.

► Did you know you can even totally change the way your windows look?



trashcan. Instead of having to look for the trashcan icon in the root directory of the current partition, you have a trashcan icon on the Workbench. GlobalTrash gives you exactly this. Any files dropped onto it are moved to the trashcan of whichever partition they are on, creating the trashcan directory if it doesn't exist. You can set it to show different icon images depending on whether the trashcans are empty or not, and double clicking on the icon gives you options to view the

SimpleFind

SimpleFind is like that wood varnish you see advertised on the TV, it does exactly what it says. It finds files and is simple to use. Type look in part of the filename you are looking for and select the directories or drives to search from a requester (or press ALL) and off it goes rummaging through your hard drive before presenting you with a list of files it has found.

You can then view, copy, delete or unarchive some or all of the files found. This should be one of the first programs you allocate a hotkey in MCP, so it's immediately available whenever you want it.

KingCON

KingCON adds a wide range of facilities to the standard CON: window, as used by the shell and other programs. It has a history buffer, with scroll bars on the window, so you can now read directory listing etc. much more easily.

You can save the contents of the buffer, you can iconify the shell while it is executing a command and it will open again when it's finished, and you can drop icons onto the window for the full name and path to appear at the cursor position. But the most useful feature is file-name completion. Type the first few characters of the file or directory and press tab, KingCON will either complete the name for you, or give you a list of possible matches to choose from.

I asked readers on the CU Amiga internet mailing list for a list of their favourite Workbench enhancements, KingCON featured in just about every reply. Once you've used it you will NEVER go back.

contents of the trashcans and empty one or all of them. You can also use it to eject Zip disk or CDs by dropping the disk icon onto the trashcan.

There are two more, very small, additions that make a big difference to Workbench. The first is FastExec, which relocates exec.library to the fastest available memory. If you have an accelerator card, this may make a significant speedup to some Workbench operations. The other one is a newcomer called PowerWB. This adds a couple of icons to each window's title bar to switch the view modes between View by Icon/Name and Show All/Only Icons.

It also adds keyboard shortcuts for these and several other icon operations.

Will that be all?

Adding NewIcons, MCP, KingCON, ToolsDaemon, SimpleFind, PowerWB, GlobalTrash and FastExec to your startup will transform your Workbench into something so much more efficient, faster and easier to use. However, it doesn't stop there. Before you start adding all sorts of enhancements to your startup, you need to consider the load on your machine. Most of these programs use very little processing power, but each one you load consumes a little more precious memory.

If you have 6MB or less of memory, you should think very hard about adding anything more than these. There's no point in

having an attractive and easy to use system, if you don't have enough memory left to run programs effectively. For those with some memory to spare, here are some further enhancements.

One of the reasons for having more memory is to be able to multitask more easily, yet having more than one program running can make you Amiga seem sluggish. Unix computers have long had task schedulers, programs that adjust the priorities of other programs to make the best use of available processor power. The Amiga has

Executive

Put simply Executive helps multitasking programs to get on better with each other. You can specify whether a program gets a larger or smaller share of the available processing power.

This is useful for running CPU intensive background tasks, like rendering or image processing, yet still having a responsive Workbench. It comes with a range of programs for monitoring and handling all the tasks running on your machine, but even the basic setup as first installed will make multitasking much smoother. Executive is one of those programs that you quickly take for granted. You don't realise how much it improves things until you stop it.

MCP

MCP, short for Master Control Program, must be the ultimate package deal.

It takes a large number of system patches and enhancements that were available from a variety of other programs and combines them into a single package, adding a few of its own too. Meaning you can control everything from a single preferences program, and running all the functions from a single program should reduce memory usage too.

Installing MCP is done with the provided installer script and you can then start setting up the various functions. With so many options to experiment with, it can be easy to get carried away, so we have compiled a list of the most useful functions as a starting point. It is important to remember that patching any operating system functions carries a slight risk, especially if two programs try to patch the same function, but the features listed here are the safer options.

Some of the other options can cause problems on some machines. So sort out a basic setup and then change things one at a time. That way you will know what works and doesn't work on your Amiga.

These are the options you really should look at first:

ALERT-HISTORY, ALERT-TIMEOUT and

NOGURU

This replaces the normal "Guru" requesters with a more informative one, and writes the message to a file. It makes it easier to work out what is causing the errors. Since it delays the reset process, it also reduces the chances of a disk becoming invalidated by a Guru reset while writing to the disk.

APPCHANGE

Many programs put Applcons on the Workbench, and most of them allow you to change the image used for the icon. However some programs hard-code the image so you can't change it. This feature will change the Applcon images for all programs.

ASSIGNPREFS

You can now remove all those Assign statements from your user-startup and manage them all from a single preferences window. Not only does this make it a lot easier to alter anything, it speeds up booting since all the assigns are set with a single command, instead of a separate assign statement for each one.

ASSIGNWEDGE

How often do you get a requester saying "Please insert volume XYZ:" in any drive? Many program installers add assign statements to user-startup, but if you only want to try it out before installing it,

ARQ

ARQ enhances requester in three ways, they open in the centre of the screen, they are much more attractive with an animated image relevant to the type of requester, and they have more keyboard shortcuts, Return of OK, and Esc for Cancel. If a requester has several buttons, they are mapped to the function keys, F1 for the leftmost and so on.

Easy does it

There are a lot of programs listed here, most of them with many options. You may be tempted to try to install and set them all up at the same time... this is not a good idea. Try each program individually, read the documentation, install and configure it as the manual says. When you have it working as you like, then move on to installing the next one.

one too, Executive. With Executive you can allocate relative priorities to different tasks to make the best use of your processor. For example, you can set your 3D rendering program to "give way" to everything else.

Design your own Workbench

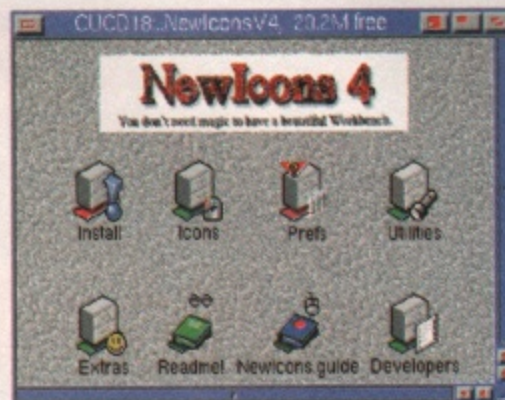
The look of the Workbench windows and gadgets hasn't changed for several years. MCP's Sysihack function allows some changes, but if you want to customise your Workbench (and other) windows even more, try VisualPrefs. This lets you change most of the standard gadgets, on a screen by screen basis, so any program that runs on its own screen can have a different appearance.

MagicMenu does for menus what VisualPrefs and PowerWB do for windows. not only does it change the appearance of you menus, but it allows you to alter their

behaviour. You can have menus popup under the mouse whenever you press the right mouse button, instead of having to move the mouse to the top of the screen. You can have sticky menus that stay on screen until you select something from them and you can control menus from the keyboard.

Since we've now changed the appearance of our menus and windows, how about improving the system requesters too? ARQ alters them to open in the centre of the screen instead of the corner, they now have sensible keyboard shortcuts and the appearance is greatly improved.

One of the unique features of the Amiga's Intuition is multiple sliding screens. Instead of having all your programs opening their windows on Workbench, each one can have its own screen, making for a much tidier working arrangement. But finding the screen you want when you have several open can



◀ The NewIcons system takes your old Amiga icons and replaces them with bold, vibrant new ones.

be tiresome. MCP's ScreensMenu feature helps, showing a list of open screens when you click the right mouse button on the screen depth gadget, but flipping screen with the keyboard is no easier.

ScreenTab shows the names of the currently open screens for you to pick the one you want, all from a hotkey. It also gives you a taskbar and StartMenu to launch commonly used programs. Once you've installed all these programs into WBStartup, you can experiment with turning them on and off.

There are several programs available for controlling what happens with WBStartup when you reboot, but WBSM is my favourite. Normally nothing happens, but if you hold the left mouse button down during bootup, a window opens with the contents of WBStart, so you can disable or enable individual programs. ■

Neil Bothwick

this can be a real pain. This function extends the requester with options to create the assign immediately, or to try and mount the required drive.

AUTOMOUNT

If you have devices in your Storage/DOSDrivers directory that you only mount when needed, maybe because you only use them rarely, this function is for you. Before the "Please insert volume..." requester can appear, it is automatically mounted.

CACHEFONT

Opening a font requester from any program can be a slow process if you have a large number of fonts available. The system has to scan your FONTS: directory each time. CacheFont builds and saves a list of all your fonts, and passes it to any program that opens the font requester.

COPYMEMQUICK

A patch to speed up memory usage.

CYCLETOMENU

This one turns standard cycle gadgets into drop down menus, which are much quicker to use when the gadget has a lot of choices, and let you see all the choices at once.

HOTKEYS

Hotkeys are keypress and mousebutton combinations that have the same action wherever you use them, whether in an

application, on Workbench or in a shell.

They provide very fast shortcuts to frequently used functions. The classic uses are to open a shell, or to arrange windows and screens. Double-clicking on any part of a window to bring it to the front when its depth gadget is hidden is much faster than clicking on the depth gadgets of all the windows in front of it.

Since you may be spending some time experimenting with the various options in MCP, one of the first hotkeys you should setup is to one load MCPPrefs.

MOUSE-SPEEDER

A mouse accelerator. There is one built into the Workbench Input preferences program, but this one is far more flexible.

NEWEDIT

Adds more control to string gadgets, you can copy and paste via the clipboard and do much more.

PATCHMATH, PATCHOPENWB and PATCHRGB32

These patch certain system functions to correct errors in the originals.

SCREENMANAGER

A screenmode promoter. This is of most interest to users of graphics cards, and saves running a separate promotor program. However there are uses for all Amigas. Anyone who tried to run the FPU version of DrawStudioLite direct from the

CUCD will have got an error message, due to a configuration file containing a Picasso96 screenmode.

A screenmode promoter like ScreenManager allows you to force it to use a standard AGA or ECS screenmode.

SCREENSMENU

Turns the screen depth gadget into a menu. Press the right mouse button over it and you will see a list of the available screens. Much quicker than cycling through, hunting for the one you want.

SNAP

Once again, this is a feature made popular by other programs that is now integrated into MCP. Snapping is copying and pasting text from one window into another, via the clipboard.

This is extremely useful with programs that do not have direct clipboard support.

TOOLALIAS

How often have you double-clicked on an icon, only to be told "Could not open your tool xxx"? Programs often create icons for files that use themselves as the default tool, but you don't want to open a full paint package or word processor just to view a picture or text file.

With Toolalias you can replace calls to these programs with something you prefer, such as Multiview or your favourite graphic viewer.

Screen

The anticipation has been getting worse and worse by the month. We've been seeing all sorts of fantastic looking games announced, but releases have been slow. At last it's all starting to happen, and this month we take a look at **Shadow of the Third Moon**, the **Voxel flight sim**. Does it live up to the hype? Turn to **page 48 right now!**

Reviews

- 40 Köln Show
- 41 What's next?
- 43 Ultimate Gloom
- 44 Uropa 2
- 48 The Shadow of the Third Moon

Tips & Guides

- 50 Tips Central
- 52 Adventure Helpline



Uropa2 44



Shadow of the Third Moon 48

Köln Show

Computer '97 in Köln was more about hardware than games, but the implication for gamers was enormous. We take a look at why...

These days it is considered that an Amiga game is doing pretty well if it sells a few thousand. It came as something of a surprise to learn that one particular game sold just under 750 copies in the first three days of its release at the Cologne show. That game was *Shadow of the Third Moon*, a genuinely high end Amiga title. There are a lot of people moving into high specification Amiga games publishing, and the truth is that every single one of them is nervous about it. They all recognise that if the Amiga is going to have a future, people are going to have to upgrade their machines, and a very good way of convincing people to upgrade their machines is to show them how good games would be if they did. This is fairly standard assumption in the PC world, but there is a bit of a difference for the Amiga games houses. If you pitch a title too high, you lose sales. For a company selling into a large market like the PC, it can be worth doing because it helps up the average specification of the

machines they are writing for, it makes them look good 'cos they've released a fantastic game, and there are so many people out there that the lost sales from low end users isn't so important. On the other hand Amiga publishers need to maximise their number of sales because the bitter truth is that there aren't nearly so many people buying Amiga games. If someone releases a game that is too high specification, they run the risk of not selling enough to pay for the costs of releasing it, yet alone making the kind of profit on it which is necessary for making a living out of the work put in. Many publishers will, I guess, take heart in the relative success of *Shadow of the Third Moon*. Given that there was never an off the shelf Amiga sold that could run this AGA or better, 68030 minimum, 5Mb RAM, CD-ROM and hard drive only game, this is a game only those who've expanded their machines will be capable of running. So why did it sell so many? I think the answer is simple. Those specifications are no longer all that high.



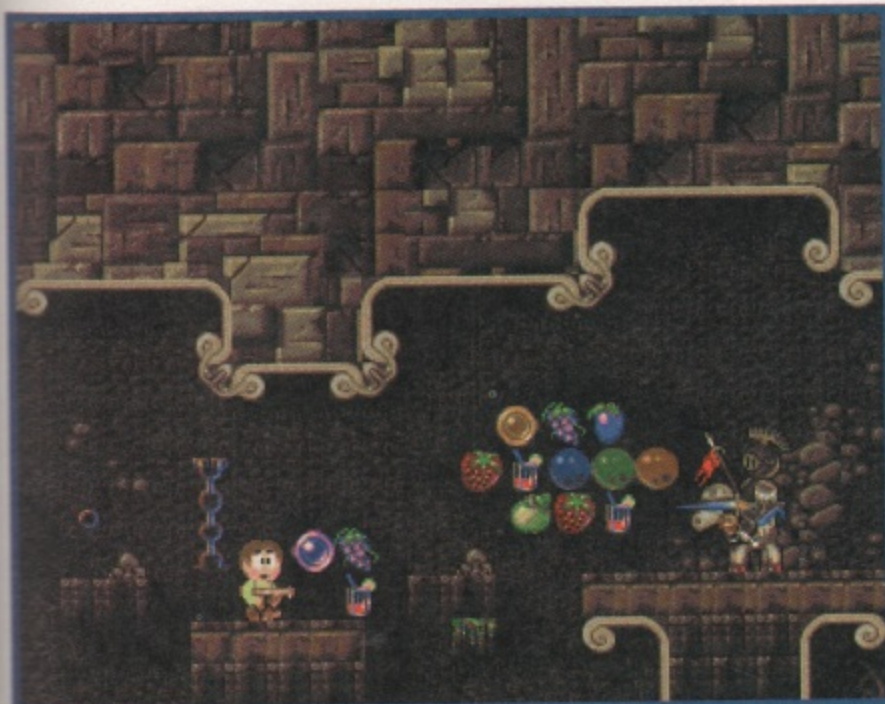


Genetic Species from Vulcan Software. This stunning looking Wolfenstein 3D on steroids is due out in February of 1998... but wasn't out at the show.

Active Amiga users seriously interested in gaming are going to have an accelerator, a CD-ROM drive and so on. When users like that see a game designed for an unexpanded A1200, they aren't too likely to get excited, whereas something like TSOTTM which uses the power of their machines to the full comes along, things are different. Visitors to the Titan Computer stand could see for themselves what kind of a game was on offer. Elsewhere at the show there was not a lot by way of new titles. Aurora works of Canada were showing off their high end title H-Bomb, which is an attempt to upgrade classic 80's gameplay with 90's sound and graphics. Fellow Canadians ClickBOOM were hoped to show up with MYST, but the game overshot by a couple of days. Vulcan had a showreel of titles at the Amiga stand, showing graphics from forthcoming titles such as HellPigs, but could have done a lot better by having, for instance, a fully playable version of Genetic Species on display. New Generation software were there with the demo of Trapped 3 (which they kindly allowed us to put on this month's cover disk!) and were also showing off a PC title they

are hoping to have in an Amiga version of this spring - Wet, an erotic comedy game (!). Titan had the really rather nice looking platform game Sword on display alongside TSOTTM, which we have for review next month. They also announced a few other titles expected soon, including Evil's Doom CD, an updated and improved commercial release of the excellent Shareware RPG, a spaceopera / strategy game called Last Days of Paradise, and a game called Total Combustion PPC, which is a Carmageddon style game for 68040 minimum and PowerPC preferred. As well as all this, old hands such as Islona / APC&TCP were there.

Perhaps the most important thing as far as gamers were concerned is the news that 3D graphics acceleration is heading towards the Amiga. Micronik debuted their new PCI capable Amigas which could, in theory, use the Voodoo 3DFX cards which the most high end PC games are designed for, and the phase5 PowerUp project has spawned a plug in graphics card which would give an Amiga more raw games playing power than any current would possibly need. See page 70 for more on this development.



Sword, from Titan Computer / Seriocomic. Classic platform action with lovely graphics. See next month for a full review of this new game.

What's next?

There are some pretty exciting games on their way... but we are tired of telling you about them so we thought we'd just let you have a quick butchers' instead.



Forgotten Forever, from Charm Design



Explorer 2260 from World Foundry / Vulcan



Foundation, from Paul Burkey / Sadeness



Hard Target, from Vulcan

from the makers of



Nintendo

AMIGA

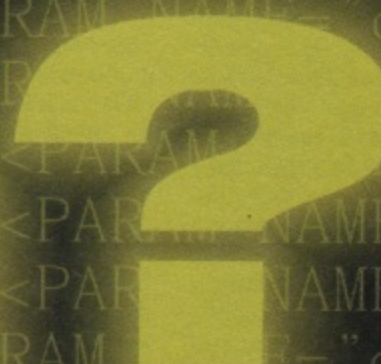
SEGA SATURN

PlayStation

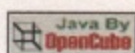


What's going

1



designer labels



SEARCH REVIEWS

Find the game you want! Simply enter any of the search criteria below and GO!

game title
eg. Jet Set Radio

format
PlayStation

developer
eg. Namco

genre
Role Playing

GO!

CONCORP CORPORATION
<http://www.concorp.com>

Platform	PS2	Game	Goldeneye
Price	\$49.95	Developer	Namco
Players	1-4	Publisher	Namco

REVIEWS
Goldeneye 007

By James Bond in Namco's upcoming Goldeneye 007

COMMENT
This version of Goldeneye 007 is not only a new advance in console design and feature-based modeling, but also a new...
This is the first ever...
...the possibilities of...
...the possibilities of...
...the possibilities of...

game online

game online



www.game-online.com

the free games mag on the web

Ultimate Gloom

■ Price: £14.95 ■ Publisher: Guildhall Leisure ☎ 01302 890000

Gloom's back, and this time it's on CD! Time to rekindle the blood-lust and get yomping down those dark corridors...

Never one to be impressed by an endless list of spells and plot about evil wizards, runes and all that kind of stuff, the all out action approach of Gloom got me instantly hooked. Now the reins have been handed over to Gareth Murfin for the third, and according to the title, the final instalment in the series.

As is increasingly common these days, Ultimate Gloom is a CD-only release. Not only do you get the new Gloom 3 on the disc, but you're also given the original Gloom and Gloom Deluxe too. There's also a bunch of new levels from the general public made up with the Gloom editor (which is included also). Quite a package all told then.

It's par for the course that CD games come with flashy intros, normally pre-rendered 3D sequences and a soundtrack. Ultimate Gloom makes a comically bad attempt at setting the scene with a narrated introduction which comes complete with scrolling subtitles and a zombie picture. The voice over sounds like it was recorded in a biscuit tin by a depressed Geordie, then slowed down to half speed to sound scary. Nice try guys.

What's the difference?

If you were hoping for a stream of technical advances since the last edition you'll be disappointed. However, the main game engine is significantly faster with options to play different versions optimised for 020, 030, 040 and 060 CPUs. Specifically the speed increase you'll get is 26% (020), 14% (030), 60% (040) and 3% (060). Unlike Trapped 3 though, you won't be bombarded with fancy lighting effects as your plasma bolts hurtle down corridors, and neither will you see any texture-mapped polygon enemies. Why? Mainly because speed is an essential ingre-

dient in any decent shoot 'em up, and at the end of the day that's what Gloom is.

So that's the advances out of the way. Disappointingly, most of the other changes are for the worse. The first thing that hits you (after the improved intro screens) is the amateur look of the graphics. The first level texture maps are very poor. The ground is plain tiled lino and half of the walls have little more than a coarsely stippled colour graduation for detail. This is an unfortunate choice as the scaling of the textures clashes with the dithering as you approach the walls.

Worse still, all the enemies you come across appear to be on casters – they just slide around the place with barely an animation frame between them. If the developers weren't going to bother animating the enemy sprites properly they should have at least given themselves and excuse for it – switching the soldiers for Daleks would have done the trick. Maybe the following levels could have pitted you against mutant arm chairs and angry skateboards. Then again maybe they should have just bothered to animate them properly.

You'll see they've obviously put a lot of work into drawing a highly realistic gun that pokes up in front of you throughout the game. Or is it a hotdog? The sound effects are another disappointment. The satisfying 'splat' of exploding zombies is still present but the main gunshot sound has graced a million and one PD games over the years and is surely due for retirement by now.

Gloom on a rope

Despite all of this, it's still Gloom. The opportunity to go shooting off your plasma gun around a whole new set of levels is not to be sniffed at. The two-player mode is still here and it's still just as good fun to double up and play with a mate.

As with Gloom Deluxe, you can choose to run a few different versions of the game to get the best from your system. The display options are 'Gloom 3 Ze Dc' (which the documentation warns against using as it will crash – good job they put that in then), 'Gloom 3 Ze' for general use, 'Gloom on a



screen' which allows you to select any available screen mode (such as a CybergraphX or Multiscan display), 'Gloom in a window' to play in a window on Workbench and 'Gloom iGlasses' which offers a real 3D display if you have some of those 3D glasses Escom were trying to flog a while ago.

I was interested in seeing how it went on a CybergraphX display with an 060, but the set-up program crashed on the CybergraphX test machine. Never mind.

The best bit

It's ironic that the best bits of this CD are the two previous Gloom games. They both knock Gloom 3 for six. If you don't have either of them, then this is a good opportunity to get all Gloomed up, especially considering the knock-down price. Most of the score here is for those games. Had it been Gloom 3 on its own you'd be looking at something nearer 70%, but the overall package amounts to a decent re-release. ■

Tony Horgan

▲ Don't look now, but there's a blue marine sliding towards you! He must have some of those new hover boots.



▲ The title screens are better this time round.

ULTIMATE GLOOM

■ Workbench version	2+	Graphics	78%
■ Number of disks	CD	Sound	50%
■ RAM	2Mb	Stability	78%
■ Hard disk installable ...	Yes	Playability	83%

OVERALL

Disappointing third installment but the originals still cut it

80%

Uropa 2

■ Price: £29.99 ■ Publisher: Vulcan Software ☎ 01705 670269

Vulcan step into the future with this space adventure from Austex. Recent Vulcan releases have not been critically acclaimed - will this game see them back on track?

► Right: The polish and professionalism is all there, with nice intro sequences and all. In-game graphics (inset) are rather less impressive.

Uropa2, put in its most basic terms, is a supercharged blend of Impossible Mission and Battlezone, set against a sci-fi backdrop with a lot of chrome. Vulcan Software's second foray into the world of CD-ROM gaming promises an epic of exploration, discovery, adventure, and action. That's a lot to promise and it's no secret that Vulcan's track record has been somewhat spotty. The company has published some very clever titles, but these rarely aspired to be anything more than, well, derivative - the likes of Hillsea Lido and Timekeepers. Some of the company's more recent offerings have met with the ire of reviewers. Along comes Austex Software, developers of Uropa2, to attempt to rescue Vulcan from this slump.

Rescue it is!

Funny that I mentioned rescue, because that's much of what this game is about. It's the future and mankind has spread beyond the Earth, making the cold moon Europa one of its primary bases. To help with the hard work needed to maintain an interplanetary empire, humans have developed two 'races'



of intelligent robots to help do the work: Tekites and Kapones. It seems, though, that the Kapones have grown tired of their role as third-class citizens.

They've teamed up with some alien enemies of Earth and have seized control of the Uropa2 colony. As a Tekite in the special Centurions strike force, you are sent on ten successive missions to break the Kapone stranglehold on Uropa2 and free the colony. Not to mention showing those aliens that humans and their robot lackeys are not to be messed with.

The game is played out in two settings. The first is in a 3D isometric world of interconnecting rooms of the colony, ranging from hallways to living quarters to research labs. In most rooms there will be items to interact with - shelves and cabinets to

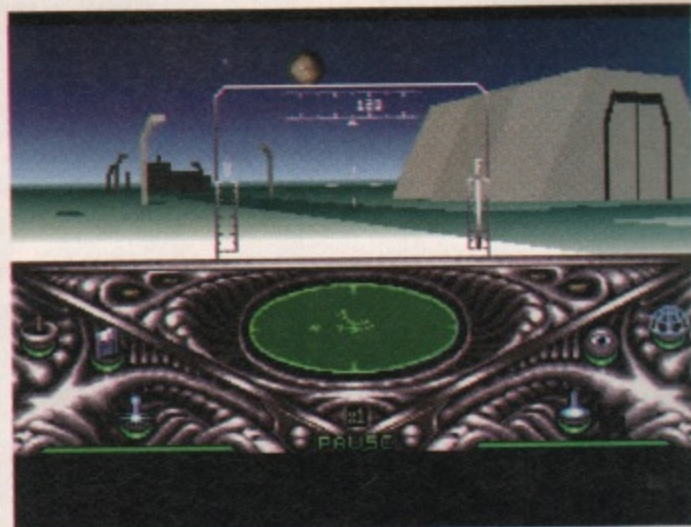
search (the shades of Impossible Mission here, complete with the "searching" wait bar), computer terminals to read clues from, and special items such as lab equipment whose ultimate purpose may be hidden at first. There are also humans - the hostages on Uropa2 who you are charged with rescuing. They're useless most of the time, move slowly and get in the way. They also tend to walk right in to hostile situations.

That's right, it's not all just an easter egg hunt. The Kapones have their operatives stationed around the base, and they'll shoot you on sight. Trying to defeat them with the measly "laser sword" you start the game with is difficult enough, keeping the humans from walking directly into the line of fire is even harder. But, no game of this sort would be complete without some sort of powerup, and true to form you can gather weaponry enhancements and various gadgets to make destroying the enemy easier. There's even the old "weaponry vending machine" concept you might recall from Alien Breed and a host of other games - because goodness knows, you want to send your crack commandos into hostile situations lightly armed and low on cash.

The bases are equipped with transporters that can zap you between a limited number of locations, but sometimes you have to take the mission on the road. This is the second stage of the game, where you board a "Hover" craft and set out across the surface of Uropa. On the surface, you can travel between buildings, pick up yet more powerups and curiosities, and mix it up with



▲ Here we see the 3D sequence in action. The 3D is totally faked, but it is fast and furious and looks quite nice.



haven't yet been to in the hover view). The game can be played in both ECS and AGA, although the differences are not staggering – you'll notice some extra dithering and a little less chrome in the ECS version. I was surprised because the AGA version didn't seem to be lacking a lot in color – it is slightly cartoonish, but still effective. The flip side, of course, is that the AGA version could have been so much more spectacular.

Control issues

If you're going to regain control of Uropa2, you're going to need control over your Tekite.

This is a bit of an adventure. If you so chose, you could drive just about all of the game from keyboard or CD32 joystick, although the former lacks something in the response department and the latter gets really confusing, with all sorts of combinations of buttons to press. I found that the easiest compromise was to use the joystick most of the time, the keyboard when necessary, and the mouse for interacting with the various computer screens in the game. This is something less than ideal, however. Note: Although you can use a CD32 gamepad, the CD32 is not directly supported. You would need an expanded CD32 with hard drive in order to play, and even then the system requirements suggest a 4X speed CD-ROM drive rather than the CD32's 2X.

The game's inventory system can take a little bit of getting used to. Weaponry and items are catalogued separately, and sometimes getting them to work exactly where you want them is a challenge – for example, you can't seem to drop time-delay bombs right next to a door you want to blow up, you have to give it a little room, but it took me a few minutes to actually try that out and be comfortable that it would really work.

The documentation for Uropa2 is on the CD-ROM in AmigaGuide format. This is fine, although the layout is slightly confusing, it seems there was a slight omission or error in a couple of parts (at one point, the manual says it is going to describe six items but in fact only lists four), and has no pictures, which would have been nice in order to give a real overview of the GUI, rather than a descriptive overview. But after a little experimentation, you'll get the general idea. Uropa2 multitasks, so you can check the documentation while your game is on pause.

The next epic?

With the ability to save games for later play and the progressive nature of the missions (you can't start #2 until you've finished #1), Uropa2 is a game that requires you to make a commitment if you want to see it through.

Working through the puzzles and blasting through the baddies takes some time, and there are 10 missions to play through. The real question for a game that offers this sort of challenge is: is it worth my time? I would have to give that a qualified yes. The game revels in pulpy science fiction conventions.

Enjoy them. Sometimes the voiceovers go over the top. Laugh with them, not at them. And yes, your Tekite does look rather like a tin can with stubby arms. But that tin can with stubby arms has been charged with a serious mission! ■

Jason Compton

◀ The graphics come in a variety of styles and forms, but show an impressively persuasive Science Fiction feel. Apart from the pool table at any rate.

Kapone flyboys who send an endless stream of taunts at you as you dogfight at high speeds on the surface. The 3D hover sequence engine is fairly smooth and detailed – you won't mistake it for Frontier any time soon but it does the job.

Of the two, it's the less inspired setting for the game, but it allows for two serial linked Amigas to play deathmatches, so it can't be all that bad. On the other hand, in later missions it becomes necessary to launch massive strikes against Kapone bases rather than the discreet surgical insertions of your Tekite droid, and nothing is more rewarding than blowing up a polygon building and turning it into lots of little polygons!

Atmosphere on Uropa

Austex and Vulcan have gone through considerable effort fleshing Uropa2 out into a real experience. The 3D intro, while somewhat grainy and not of award-winning calibre, has a voiceover that sets the mood quite nicely. Virtually all of the text you'll encounter in the game is played back as speech, and the mission descriptions are similarly dictated to you. The overlapping distress signal you hear early in the first mission is particularly disturbing. In both the station and the hover views, the game automatically maps your location and where you've been (and has information on locations you

UROPA 2

■ Workbench version.....2.0	Graphics.....84%
■ Number of disks....CD ROM	Sound.....92%
■ RAM.....1.5Mb	Stability.....92%
■ Hard disk installable....Yes	Playability.....87%

OVERALL

It won't win the Nebula award, but it's fun.

88%



EPIC Marketing

By supporting us,
your supporting the Amiga.



OPENING HOURS

9:30am - 5:30pm

Mon - Sat

POSTAGE COSTS

£1 per title

UK orders

0500 131 486

or 0800 06 888 90

overseas orders

+44 1793 490988

general enquiries

0 1793 514188

fax line

0 1793 514187

email

epicmarketing@dialin.net

posted orders

Epic Marketing

Unit 22 - BSS House

Area 50, Cheney

Manor, Swindon,

Wilts, SN2 2PJ, UK



OPENING HOURS

ARVO - LATE^{am}

Mon - FRI

POSTAGE COSTS

\$2 per title

Australian orders

02 9520 9606

posted orders

Epic Marketing

36 Forest Road,

Heathcote, NSW.

2233, Australia.

e-mail:

epic@swol.de

Telephone:

+49 0 7071 63525



German office

Epic - Paul Lechler

Strasse 4, 72076

Tubingen, Germany.



World of Clipart Plus is a double CD-ROM containing 40,000 mono and colour clipart images. It includes over 100 categories including: animals, people, vehicles/transport, food&drink, zodiac, xmas, cartoon, music, computers, technology, babies, women, men, dogs, cats, birds, office equipment, trees and dozens more. Most clips are IFF.



Order: CD77x UK: £14.99 - AUST: \$36

WORLD OF CLIPART All Amiga's



Magic Workbench Enhancer is a stylish Amiga CD-ROM containing not only Magic Workbench but also around 10,000 new Workbench icons, Backdrops and Desktop tools. Enhance Workbench even more with this excellent CD.

Includes:

Magic Workbench - 10,000 New Icons - WB Backdrops
Desktop tools - WB Sounds
WB Games - WB Hacks



WorkBench



Magic WB

Order: CD187x UK: £14.99 - AUST: \$36

WORKBENCH ENHANCER KS23



The Speccy CD 1997 includes around 3,000 all-time classic original Spectrum games and emulators to run them on the Amiga. This CD is a sinch to use. The faster your Amiga, the better.

Order: CD403 UK: £14.99 - AUST: \$30

THE SPECCY CD 1997 Any



The Epic Collection 3 is a new Amiga CD containing around 600mb of the very best Amiga software, nearly all of it usable directly from the CD. No need to decompress it to disk.

Order: CD405x UK: £14.99 - AUST: \$30

THE EPIC COLLECTION 3 KS23



The new Ami-PC Linkup set is a powerful new Amiga to PC Networking package that allows the Amiga to have access to ALL of your PC's drives including: ZIP, Hard disk, Jazz, CD-ROM etc. Win'95 is recommended on your PC, but isn't essential. The package includes everything you need including cables.

This software is supplied free on an Amiga and PC floppy disks. Call 0 1793 514188 for more info.

Order: CD461 UK: £17.99 - AUST: \$36 SPECIAL!

Ami-PC Linkup NEW KS23



Amiga Desktop Video CD volume 2 contains hundreds of megabytes of Video related backdrops, fonts, samples, and clip images. The CD also includes a full version of Scala.

Order: CD404x UK: £9.99 - AUST: \$20

Amiga Desktop Video 2 KS23



Arcade Classics Plus includes hundreds of variations of all the classic arcade games, such as Pacman, Invaders, Tron, Galaxians, Frogger, Tempest, C64 conversions, Q-Bert, Trail Blazer, Scramble, Ping-Pong, Pengo, Missile command, Breakout, Bezerk, Donkey Kong, Tetris and tons more great games.

Order: CD76 UK: £14.99 - AUST: \$30

Order: CD76 UK: £14.99 - AUST: \$30

Amiga CD-ROM GAMES

The Latest CD-ROM Titles!



£14.99



£29.99



now £19.99



now £19.99



£14.99



£19.99



£19.99



£14.99



£14.99



£14.99



£19.99



£19.99

See our other advert elsewhere in this magazine for more great Amiga games.

HARD DISK PREP & INSTALLER - Allows you to partition your hard drive and install Workbench onto either a 2.5" or 3.5" hard drive. £7 (AHD7-2) for WB3 or (SHS7-2) for WB2.
SCANNER DRIVERS - Supports Epson GTxxxx, Hewlett Packard, Mirotek, Mustek, Highscreen flatbeds and more. Some drivers require certain spec Amiga's. £5 (SSD5-2)
ATAPI IDE SOFTWARE (ATP3-1)
Allows you to connect and run any standard PC IDE CD-ROM drive upto your Amiga. £3
ZAPPO / ARCOS CD-ROM DRIVERS -
The Latest Version 11.2 of the Zappo/Arcos driver software. £7 (AAZ7-2)
SOFTMEM SUITE - Softmem makes your Amiga think it has tons of memory. It increases your memory to the desired amount. £5 (SMS5-1)
AMIGA PRINTER DRIVERS - Includes around 100 Printer drivers for use with Epson, HP, IBM, Star, Canon printers and more. £3 (DRV3-1)



THE EPIC ENCYCLOPEDIA - AGA, 4mb, Harddisk
Order: CD262x UK: £19.99 - AUST: \$40

The Epic Interactive Encyclopedia is a completely updated product to the extent that it now includes around 16,000 subjects. This version of the Epic Interactive Encyclopedia is available now. It features a superb new updated multimedia interface, hundreds of film clips, images, sound samples and subject information text. This version now supports a multitude of new features including: Colour images, Full-screen filmclips, National anthems and a unique **Inter-ACT** feature which allows you to interact with certain subjects like: Draughts, etc. A superb reference and educational title for the whole family.

Features Include
*16,000 articles from Aachen to Zurich
*Unique **Inter-ACT** feature
*Updated interface supporting colour images
*Hundreds of film clips small and large
*Over 4,000 images both b&w and colour
*Dozens of new features
*Music Styles from country music to rave
*Updated Explorapedia now eight sections
*Sound clips animals to famous speeches
*National Anthems of dozens of countries
*EURO-Pedia information on Europe
*Sound montages styles of music, animals etc
*Zoom into Animations 4 times as large and much more.

CU Amiga - 91%
Amiga User International - 90%
Amiga Computing - 90%



CD32 GAMES

and mixed with CD-ROM
Only £2.99 each
(ONE FREE with every FOUR)



VITAL LIGHT

200 levels of sheer unadulterated addictive gameplay. 1-2 players. (32-01)



LEGENDS

Two alien scientists have mischievously travelled back in time to destroy earth. (32-38)



MYTH

You are taken far back in time to confront the evil God Dameron. Rated 96% (32-27)



Insight Dinosaurs

Is an amazing multimedia Dinosaur-pedia, suitable for any Amiga. (32-42)



MEAN ARENAS

It's fast, it's furious, it's slippery. It's Meeeee... Areeenas!!! and it's fun, fun, fun. (32-25)



Marvins Marvellous Adventure

Ever delivered pizza to the far side of another dimension? (32-12)



TOTAL CARNAGE

Level after level of blowing, explosive, fantastic flame throwing fun! (32-31)



Video Creator AGA

Create your own stunning music video in time to your music cd's. (32-43)



John Barnes Football

CD quality sound effects, animated crowds. Game runs at arcade speed!!! (32-22)



LAST NINJA 3

Ninja3 is here and ready to explode onto your screen in this stonking adventure beat'em up. (32-29)



STRIP POT (18)

Imagine five of Europe's most beautiful girls at your fingertips... (32-37)



CHAOS ENGINE

During the last century an experiment with time and space created a bizarre machine. (32-39)



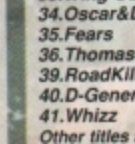
ALFRED CHICKEN

This is no yolk. As the worlds only chicken with a bionic beak, you have to save the world. (32-30)



LIBERATION

Enter the 29th Century and enter a dying world commercially exploited by the corrupt state. (32-24)



Now that's what I Call Games!

100 all time classic PC games ready to use on the CD32. (32-29)

GLOBAL EFFECT

Make the decisions of world leader, as you control the balance of nature versus civilization. (32-32)

ALSO AVAILABLE...

02.Babba & Stix
03.Premier
07.Morph
08.Dangerous Streets
09.Akira
14.Guardian
15.Thomas' Pinball
19.Chuck Rock
26.Microcosm
28.Nick Faldo Golf
30.Sensible Soccer
32.Zool
33.Wing Commander
34.Oscar & Diggers
35.Fears
36.Thomas' Pinball
39.RoadKill
40.D-Generation
41.Whizz
Other titles available (Get a Catalogue)

ES
ROIT
FOUR
sheer
additive
2 players
entists
viously tra
time to
(32-38)
on far back
ont the evil
n.
(32-27)
osaurs
ing multi-
-pedia,
any
(2)
NAS
curious, it's
Meeeee
and it's fun
(25)
marvellous
ed pizza to
of another
(32-12)
RAGE
level of blas
ive, fantas
ing fun!
tor AGA
own stun-
video in tim
ic d's.
es Football
ound
mated
me runs at
ed!!! (32-22)
3 (32-23)
ore and read
onto your
stioning
beat'em up.
T (18)
e of Europe
ful girls at
ips...
ENGINE
last century
ent with tim
created a
chine. (32-11)
CHICKEN
yolk. As the
y chicken wh
ak, you have
e world. (32-17)
ON (32-24)
9th Century
a dying wor
ally exploited
upt state.
s what I Call
e classic PD
dy to use o
(32-29)
EFFECT (32-30)
decisions of
er, as you c
dance of nat
ilization.

SixthSense Investigations
SixthSense Investigations is an amazing new Amiga arcade adventure, featuring 32 locations, full character dialog, 3 different worlds, many interactive characters, puzzles and more. This game sets new standards for Amiga gaming. Look for reviews!

Order: CD430 UK: £29.99 - AUST: \$60

SixthSense Investigations AGA

Flyin' High
Here it is, what you've all been waiting for: A texture mapped 3D-racing game for the Amiga! Forget those boring "flat" 3D racing games. Flyin' High allows you to drive over hills, through tunnels, over ski-jumps and a lot more. Up to 4 Players can play simultaneously by using a 4player Joystick-adaptor. A Construction Kit may follow shortly!

System requirements:
Amiga: KS3, 68020, AGA-Chipset, 4MB Fastram, Harddisk. - Fun starts on 68030 running with 30MHz

Order: CD440 NEW PRICE! UK: £19.99 - AUST: \$40

Flyin' High 6mb AGA Amiga

AGA Experience 3
AGA Experience 3 is the latest collection of AGA tools, demos, graphics, games etc. This release contains 100% new material and will make a great addition to any A1200/A4000 owners CD-ROM collection.

Order: CD432x UK: £9.99 - AUST: \$26

AGA Experience 3 AGA Amiga

UFO Encounters
UFO Encounters contains thousands of documents and images that "no-one" wants you to see. The CD covers all aspects of Abductions and UFO Sightings. Suitable for use on any Amiga.

Order: CD179 UK: £14.99 - AUST: \$30

UFO Encounters Any Amiga

Software EXPLOSION!
Contains a wealth of software, including: Workbench Games, Fonts, Textures, Clipart, Samples, Multimedia Backdrops, Music modules, Business Letters, Tetris Games, 3D Objects, Images, 3D Backdrops, Tools and more.

Order: CD449 UK: £19.99 - AUST: \$40

Software EXPLOSION! Any Amiga

Deluxe Paint 5
Deluxe Paint as a product is the envy the whole PC world. It's features and ease of use are not matched by any other graphics package either on the Amiga or PC. Deluxe Paint 5, the latest release, is no exception. Deluxe Paint 5 is without a doubt the fastest paint package available on the Amiga. It's unique palette feature supports virtually all the Amiga's graphics modes. Deluxe Paint 5 includes the most powerful yet simplest to use animation feature you could imagine. Direct support for all the Amiga's animation formats are included as well as of course the industry standard IFF picture format. AVAILABLE ON DISK AND CD-ROM!

Complete with on-disc manual as well as the never before published full printed manual.

Order: CD499 UK: £19.99 - AUST: \$40 (quite heavy!)

Deluxe Paint 5 NEW KS2/3

Mini Gold
Nathan Ludkin's MIDI GOLD is a professionally compiled collection of around 3000 MIDI files. Every MIDI track is categorised into various directories, like: Film, Composer/Artist, Style, etc. Great with Yamaha XG System

CD492 UK: £29.99 - AUST: \$60

MIDI GOLD NEW Any Amiga

visit our new web site
www.globalnet.co.uk/~epic/
e-mail us
epicmarketing@dialin.net

The Games Room
The Games Room is an original compilation of Gambling games. It covers everything from Fruit Machines to Card Games, including Klondike, Poker, Solitaire, Blackjack, and Rummy, Roulette, Darts, Bingo, Pool, Checkers, Chess, Backgammon, Dominoes, Various Board Games like Monopoly and Cluedo, Mastermind, Pub Quiz's and a wealth of other Casino related games and far more than we can detail.

Order: CD451 UK: £12.99 - AUST: \$26

The Games Room KS2/3

C64 GAMES ARCHIVE
The re-compiled C64 Games CD includes around 15,000 all-time classic Commodore 64 games. It's very easy to use and the CD has a complete index of every game.

Order: CD182 UK: £29.99 - AUST: \$60

C64 GAMES ARCHIVE KS2/3 2mb

3D Objects CD
2 CD's full of Sci-fi pix, animations, sounds etc. Rated over 90% (CD215x) Only £7.99

Anime Babes (18)
Thousands of high quality "adult" japanese images. (CD191x) Only £14.99

Guinness Disc-Records
From the tallest man to the fastest car, it's all here on this great CD. (CD45x) Only £10

Emulators Unlimited
Dozens of emulators from BBC, Mac, C64, Spectrum etc. (CD117x) Only £14.99

SFX Sensation
Over 15,000 files. Includes sound effects from all over the place. (CD165x) Only £9.99

17BIT SOFTWARE LEVEL 6
The very latest 17BIT disks specially compiled by Quartz. All the best titles are here. Through an easy to use interface you have access to

around 600 brand new Amiga disks all categorised into various themes.

Order: CD495 UK: £14.99 - AUST: \$30

17BIT LEVEL 6 NEW KS2/3

Kid's Games
Suitable for any Amiga
Only £3.75 each (minimum of 2)

POSTMAN PAT
COUNT DUCKULA 1 or 2
BULLY'S SPORTING DARTS
HUCKLEBERRY HOUND
POPEYE 2
POSTMAN PAT 3
THOMAS THE TANK ENGINE
THOMAS' FUN WITH WORDS
SOOTY'S FUN WITH NUMBERS
other titles available...

ADULT SPECIAL!

Order Adult Sensation One, Two and Three for just £20 or order them singularly for only £7.99 each

BARGAIN CD'S
Buy One, Buy them all, for five quid or under, your want even more!

Adult Sensation	LSD Coil Volume 2	LSD Coil Volume 1	Utilities Experience	Movie Maker v1	Epic Encyc 1996 4mb
£5	£5	£5	£3	£3	£5

OVER 200 AMIGA GAMES IN STOCK
CALL FOR A FREE FULL COLOUR CATALOGUE

Commodore Mouse Mat	£3.99
Standard Amiga Mouse	£8.99
Official Amiga Mouse & Mat	£12.99
Joysticks...	poa
10 capacity disk box	£0.95
10 Quality Blank D5DD disks	£4.95
Amiga User Manuals	£ca1
Amiga to PC Monitor adaptor	£10
Various Cables	£ca1
Disk labels	2p ea
3.5" A1200 Hard drive cable	£20

Consumables Any Amiga

Pinball Brain Damage
Pinball Brain Damage is an exciting new Amiga only Pinball simulation, featuring Super-hires graphics!, multi ball, multi flipper and tons of other features. Look out for the review!

Order: CD486 UK: £19.99 - AUST: \$40

Pinball Brain Damage

Nothing But Tetris
Around 100 variations of the all-time classic game "Tetris". All the games are runnable from the CD. Makes a great gift for anyone!

Order: CD148 UK: £9.99 - AUST: \$20

Nothing But Tetris Any

ENCYCLOPEDIA OF THE PARANORMAL
The Epic Interactive Encyclopedia of the Paranormal is an exciting new multimedia Amiga based CD-ROM featuring high-res AGA graphics throughout. Covering subjects like: *UFOs & Aliens, Strangelife (Bigfoot, Lochness monster etc), Mysticism, Mind over matter, Myths and Legends* and more, this CD promises to give you an "experience". Also for the first time on an Amiga multimedia CD, there are true "AVI" files (Audio & Video). Hundreds of colour images, masses of AVI's, and animations, hundreds of voice-overs, over 400 minutes of presentations around 400 subject synopses, and hundreds of "cross-referenced" articles.

Order: CD423 UK: £19.99 - AUST: \$40

Features include:
*Hundreds of articles - *Updated interface - *Hundreds of film clips
*Hundreds of images - *Sound clips - *True AVI feature
*Over 400 Synopses - *Full Multimedia Presentations

FREE CD'S With Every Purchase Over £25

SOFTWARE EXPLOSION! - New Release - Worth £20 - Place an order now of £25 or more and receive this CD free! Contains a wealth of software, including: Workbench Games, Fonts, Textures, Clipart, Multimedia Backdrops, Samples, Music modules, Business Letters, Tetris Games, 3D Objects, 3D Backdrops, Images, Colour Clipart, Tools and more.

Spend £50 and we'll send you another *Mystery* CD free.
Spend £75 and we'll send you another 2 CD's free etc...

PLEASE SEND ME.....

THE TOTAL VALUE OF THE GOODS ARE £
PLUS POSTAGE OF £
SO THE TOTAL OF MY ORDER IS £
MY NAME AND DELIVERY ADDRESS IS.....

TEL: _____ AMIGA MODEL: _____

I WISH TO PAY BY.....
CHEQUE ☐ POSTAL ORDER ☐ CREDIT CARD ☐
CARD NUMBER _____ EXP _____ ISS _____

epic multimedia **AMIGA International** **GRAPHIC DETAIL** **SCHATZTRUHE** **guildhall** **ACID SOFTWARE** **ALTERNATIVE** **TFC SOFTWARE** **quicksilver** **Word Science** **CLOANTO** **ISLONA Games**

AMINET CD-ROMS
Aminet Set One & Two each set contains a 4 CD set with mb's of tools, images, modules, animations and more. Only £15.99

Aminet Set Three A 4 CD set containing some of the latest tools, images, modules, animations and more. Amazing! £15.99

Aminet Set Four A 4 CD set containing some of the latest tools, images, modules, animations and more. £27.99

Aminet Set Five The Latest 4 CD set containing the latest tools, images, modules, animations and more. £27.99

Now you can use any PC Trackball or Mouse on your Amiga!

PRIMAX Master Mouse
Mouse Master is a stylish Trackball that doubles up as a Mouse! Supplied with our Mouse-IT software and dongle. This allows any PC serial mouse, trackball or pad to be used on the Amiga. You can buy Mouse-IT separately for just £7.99 or get it free when you buy the PRIMAX Master Mouse.

£39.99

XCOPY Pro
XCOPY Pro is the most advanced Amiga disk copier suite available. It includes numerous duplication modes from standard dos type copy to a deep nibble type copy. Every Amiga owner should have a copy!

UK: £12.99 - AUST: \$26 Available from the UK only

Blitz Basic 2.1
A next generation BASIC with features borrowed from PASCAL, C and others. Program any type of software with more power than ever before. Complete with full manual. AVAILABLE ON DISK AND NOW AMIGA CD-ROM. The CD version includes the full Blitz Basic 2.1, the full printed manual as well as on-disc manual, The complete range of BUMS (Blitz User Manuals) - These alone would cost you over £200, source-code and more. Order: (CD500) UK: £19.99 - AUST: \$40

Mini Office Suite
Recently re-released by Guildhall, this superb easy to use office suite is great for the home and small business. It includes a Word Processor with a spell checker, Database, Spreadsheet and more.

UK: £19.99 - AUST: \$40

FREE 24 PAGE COLOUR CATALOGUE AVAILABLE.
Send a SAE Now!

The Shadow of the Third Moon

■ Price: £24.99 ■ Developers: Black Blade / Titan Computer ■ Distributors: Blittersoft © 01908 261466

An Amiga game which delivers realistic graphics and traditional gameplay... ? Surely not!

S Readers not too whacked out on brandy infested Christmas pudding will recall that TFX, the flight simulator we gave away with our October issue, was originally slated for release back during the Amiga's heyday, but was dropped when DID realised that it was never going to run as fast as they wanted on an unaccelerated A1200. Now that a reasonably good accelerator such as a 68030/50MHz is commonplace, TFX offers no problems. Similarly, most gamers will have the minimum spec. machine to run The Shadow of the Third Moon – indeed, on a fast '030, it runs very smoothly.

It's a pity TFX wasn't released way back, because it might have been instrumental in encouraging people into buying accelerators, and the Amiga might have advanced technologically to match the demands of games players. It is perhaps even more of a pity that TSOTTM wasn't released a few years ago, because it is damn playable on the kind of hardware which was easily available, if expensive, in the Commodore era. Perhaps if people had seen what an accelerated Amiga was capable of, the Amiga games scene would be a lot healthier than it is now.

I realised that the Amiga was going to lose its dominance as the home computer for gamers was when I saw Novalogic's Commanche on the PC. Using a system called Voxelspace, this helicopter sim sported proper 3D landscapes, with hills to hide behind and canyons to fly down. It showed for the first time that more powerful processors would open the gates to entirely new types of game engine, not just the same things running more smoothly. TSOTTM uses 3Dti's, Black Blade's own voxelspace like system, to generate similar landscapes, but with



▲Shadow of the Third Moon – fast moving voxel landscapes and fast action blasting.

a smoothness and realism beyond Commanche. What's more it does this on a machine less powerful than the type you needed for Commanche. Let's hope that this is an sign that modern specced Amigas can make their way back onto the gaming map.

Rare species

The Shadow of the Third Moon is a member of that oddly rare species, the futuristic flight sim. I suspect that this decision may have been made because the game engine's dreamlike landscapes suit Science Fiction well, lending the scenario a great atmosphere. TSOTTM is set during an alien war.

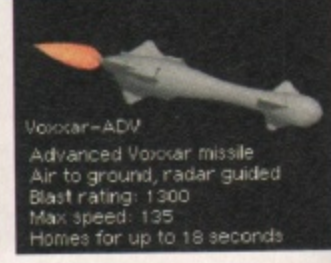
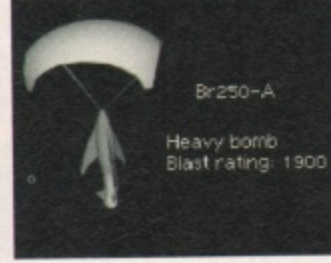
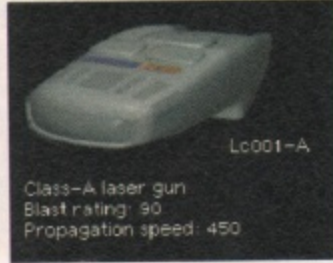
You have the misfortune of serving in the air force during the one of the occasions when your ancient foe, the Keeir, turn up at the gate with a rather unpleasantly large army. You play through a series of 6 campaigns, taking you through various different stages of the war. The first 2 campaigns involve training on the Saxxrat and the Kerjit,

the two aircraft you'll have at your disposal.

The third level takes you to the start of the war. Through the fourth and fifth campaigns, the war rages around you and your side is having a tough time of it. Finally you fight your way through to Quinrasia and the large sea, and the final battle to retain freedom for your people and the underground city of Salder. With each of the campaigns divided up into between 6 and 10 missions, you'll have to play very hard for war to be over by Christmas.

At the beginning of each mission you get to choose your armaments. Your aircraft has provision for a laser, bombs and missiles. Each of these types of weapon comes in a few shades, so selecting the right combination is an important part of the tactics. Choosing between the fast firing low powered laser and the slow firing high powered laser is mostly a matter of taste, but getting the right combination of missiles, with their varying degrees of power, number and accu-

▼ Here's a selection of some of the weapons which you'll use against the alien foe. Lasers, bombs, missiles and rockets aplenty.





racy, is vital. Once your first mission is under way, you'll very quickly pick up on the fact that this is a flight sim with the emphasis on arcade action rather than simulation. There is none of that taking off and landing lark, here you're dropped right into the action.

Various control options are available, but using a mouse for steering and firing with a hand on the keyboard for controlling thrust, weapon selection and so on seemed much the most satisfying approach. On the control panel a radar keeps track of the relative positions of your enemies, and a small message window displays information about your mission. A small VDU displays data about your weapons and targetted foes. Get into the melee and you'll soon be battling with enemy aircraft, ground batteries and tanks, while trying to knock out enemy buildings.

A well planned learning curve means that in the earlier levels you will find a few well spaced enemies, while in the later levels you can rapidly find yourself in the middle of a hectic battle against multiple enemy aircraft while ground batteries fill the air around you with laser blasts.

The speed of the game engine, even on relatively slow '030s, keeps the action going beautifully. You can bank and swoop with great manoeuvrability, and soon you'll find yourself in epic dog-fights. The fact that the landscape wraps around may detract from any sense of realism, but it has the effect of keeping the action quite concentrated, and you are never very far from a fight.

Bit of a bodge?

The graphics for the aircraft are a bit of a bodge, using pre-rendered images, but the bodge is well judged, and you don't really notice it in the heat of battle. Clever fog effects give the game not only its glorious parallax cloudy skies, but lovely smoke trails and fire effects which add a lot to the sense of solidity. Bodge or not, watching your guided missiles streaking into the distance as



▲ Don't they know smoking is bad for the health?

they track an enemy aircraft is satisfyingly convincing. It doesn't hold up so well at close quarters, however, so the external view mode is rather disappointing, stick to through the cockpit. You can use the numeric pad to look around and even zoom in and out with the plus and minus keys, so you still have plenty to see.

The really pleasant thing about The Shadow of The Third Moon is that once the initial distraction of the excellent game engine wears off, you've got a very involving and enjoyable game. The structure is well considered, with new challenges being added as the game progresses, and a nice feeling of the sweep of the narrative.

You'll find that it's not just the number and type of enemy that changes, it's also the landscapes. The first campaigns are played out in the green landscapes of home, while the more desperate later levels take you to the grim wastelands of the fogs of Kal Atl, and the final level takes you to Quinrasia and the large sea, where the small islands and large open seascapes make for a very different and deadlier environment to fly in.

As the war progresses, you'll even find yourself flying missions as part of a squadron, with a wingman who you can order to distract the enemy fighters while you attack the land installations.

Sounds Good!

TSOTTM looks good, but it gives you plenty to hear, too. Paula buzzes away to herself churning out some pretty decent if not spectacular sound effects, but if your CD-ROM drive is set up for CDDA audio output, you'll get the benefit of a full CD soundtrack to go with the game. The music suits the atmosphere of the game quite well. There are a total of eleven tracks; classic eurosynth composed by The Soundwavers.

Described by one person in the office as "elevator music of the future", it isn't likely to make waves in the music industry, but for in game music it's a big step up from the norm and manages to be quite film soundtrack like, and adds plenty to the game's atmosphere.

Nothing is perfect, and TSOTTM is no exception. There are niggles with the engine, collisions with the ground are unconvincing, and the view of yourself exploding when you die just work, but these take away more from the game's polish than its playability.

The levels strangely don't end until you hit the f10 key to end the mission, annoying as it can mean that you fly around a while making absolutely sure you're finished before you quit. The slow passage through the (admittedly beautifully rendered) high resolution menu screens can be a hassle, too. Set-up can be tricky, particularly the CDDA support, requiring a bit of basic technical knowledge. On the other hand the range of options is impressive, with CyberGraphX, AGA and general RTG screens supported, a choice of chunky to planar routines, and two sets of object graphics, one for low memory systems and one for those with a bit more RAM to spare.

In game options allow you to trade off speed for rendering quality of the landscape, as well as switching off some of the graphics tricks such as fog effects and tweaking the window size. If the missions are too easy or hard, there are even four difficulty levels to choose from.

The Amiga has traditionally seen games with lots of gameplay but has not until recently seen this kind of realistic graphics. Sadly, it has often been the case of late that games which look very nice fail to deliver on that traditional gameplay. I am glad to say that TSOTTM manages to deliver both. It is said to have sold about 750 copies during the three days of its debut at the Cologne show, and I can heartily recommend you add to that number. ■

Andrew Korn

SHADOW OF THE THIRD MOON

Workbench version	N/A	Graphics	92%
Number of disks	CD	Sound	89%
RAM	4Mb fast + 1Mb chip	Lastability	86%
HD installable	Necessary	Playability	92%

OVERALL

A superb game which looks great too.

92%

Tips Central



This month's array of glittering Christmas tips should keep you and Auntie Flo busy till well past Boxing Day. Meantime, Mark Forbes and Adventure Guru Sjur Mathisen wish all the CU-Amiga readers a tinsel-tastic Christmas!!!

Championship Manager



Pro Champ Man, Craig Rooney from West Lothian reckons he's magic at playing Championship Manager so let's find out shall we...

Firstly the best formation to use is:

- 1 Goalkeeper
- 1 Sweeper
- 2 Central Defenders
- 3 Central Midfielders
- 1 Support Man
- 3 Central Attackers

Leave all the players as normal (not going back or forward). Also left and right sided defenders can play at sweeper, and left and right sided midfielders can play at support as well as central players.

The second cheat is if you own any unhappy players because they are not in the team. Just follow this procedure:

On the main team screen:

- Click on GK
- Click on SWP (to the right of all the numbers)
- Click on GK again
- The SWP button should turn from blue to white
- Click on the unhappy player
- The unhappy player should now be GK.

Click on the GK button once again and now the unhappy player should be at number 00 and will believe he is in the team!

Well done Craig! More Championship Manager cheats next month!



Cannon Fodder 1 & 2

Well it's time for some nostalgia once again boys and girls. And a million and one thanks go out to Guildhall Leisure for releasing the first Cannon Fodder series on CD too.

Tip Number 1: Click on the load icon and press and hold both mouse buttons for 5 seconds and then release. A screen will appear offering you a HARDMAN option and level skip.

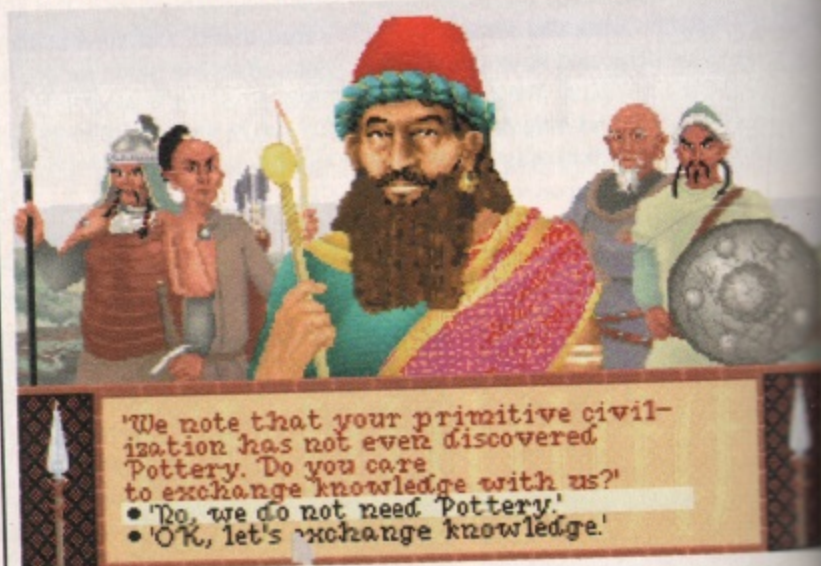
Tip Number 2: For both Cannon Fodder 1&2 Go across to the save option, and then when the game requests a name, type in JOOLS. Now the cheat mode should be active and flash across the bottom of the screen. Both the ranks and the skills of your men will have increased somewhat.



Civilisation

Try pressing the ALT and R keys at the same time in order to randomize the leaders personalities.

Also on early working versions (try the ECS version for instance, rather than the AGA) press the SHIFT key and press 1234567890T so as to give you a complete game world map.



Theme Park

Little Andrew License from Northumberland needs some cheats for Theme Park. Well, it's been a while since I last played this jolly strategy game, but try these for size Andrew.

Enter your nickname as "MIKE" and when your playing the game, press these keys:

- C - for £100,000
- I - See all the rides you want
- Z - Make all the rides available
- X - Make all the facilities available

Or Enter "Flight Sim" for the name of your park and you will start the game with 200,000 instead of the usual 130,000.



UFO

Mr. J Sweeney suggests that there is an easier way to make money without cheating in UFO. For instance:

If you were to build ten laser pistols at \$8000 each, you can then sell them for \$20000.

J.S points out that the best things to build are items which don't require special materials, e.g; Alien Alloys, Heavy Lasers etc.

Here is a list of some...

Cost per the Sale Prices:

Fusion Ball Launcher -	\$242.000	\$281.100
Plasma Beam -	\$226.000	\$267.300
Fusion Ball -	\$28.000	\$53.300
Tank/Laser Cannon -	\$500.000	\$594.000
Hovertank/Plasma -	\$850.000	\$980.000
Hovertank/Launcher -	\$900.000	\$1.043.000
HWP Fusion Bomb -	\$15.000	\$31.500
Laser Pistol -	\$8000	\$0.000
Laser Rifle -	\$20.000	\$36.900
Heavy Laser -	\$32.000	\$61.000
Motion Scanner -	\$34.000	\$45.600
Medi-Kit -	\$28.000	\$45.500
Psi-Amp -	\$160.000	\$194.700
Heavy Plasma -	\$122.000	\$171.600
Heavy Plasma Clip -	\$6000	\$9590
Plasma Rifle -	\$88.000	\$126.500
Plasma Rifle Clip -	\$3000	\$6290
Plasma Pistol -	\$56.000	\$84.000
Plasma Pistol Clip -	\$2000	\$4440
Blaster Launcher -	\$90.000	\$144.000
Blaster Bomb -	\$8000	\$17.028
Small Launcher -	\$78.060	\$120.000
Stun Bomb -	\$7000	\$15.200
Alien Grenade -	\$6700	\$14850
Mind Probe -	\$262.000	\$304.000
Personal Armour -	\$22.000	\$54.000
Power Suit -	\$42.000	\$85.000
Flying Suit -	\$58.000	\$115.000
Alien Alloys -	\$3000	\$6500
UFO Power Source -	\$130.000	\$250.000
UFO Navigation -	\$150.000	\$80.000

Alien Breed 3D

Rusty Denton (now there's a name!) from Southampton can't get past the very first level of the game. Don't worry Rusty, help is at hand. You need to look for the pole like structures, one of them has a button which you must activate and right at the bottom where you started there is another door which must be opened for you to get your ammo. Just in case you have no idea what the heck I'm yattering about, then try these few level codes:

- Level 2: CMOFFJENPPHHFFFF
- Level 3: MIOOEDEOPPPHHFFFF
- Level 4: KPFOFOPOHHEHHFFFF
- Level 5: NLIAMBOOPHHHHFFFN

Master Axe

A cheat from Epic's master blaster himself, Mr Vince! Press the key "P" to pause the game and enter the following codes:

- UDD = Master Axe Turbo Mode
- RRDD = Power-up Mode
- UULLRR = Blood and Gore Mode
- UDLR = Character Shadows
- RULULL = Hidden secrets?
- DDLLRRRV = Sprite Scaling
- LRLR = Slow Motion Mode



Colonization

Tip Number 1: When beginning a new colony, name it CHARLOTTE. This will allow you to see all maps instantly, other European ports, check other country's statistics, and gives you \$50000. When you access the other people's European ports you can spend all their money. You can buy anything and spend, spend, spend!

Tip Number 2: Rename your colony to something else and you can start another colony called Charlotte, and get another \$50000. You can easily start, then quit, and find you've got \$500000 in the bank waiting for you!

Fears

Vicky Chan of Birmingham has played Fears on the CD32 for ages with no joy. I'm not promising anything but... try these extra special level codes with all ammo, all weapons, all 9 lives:

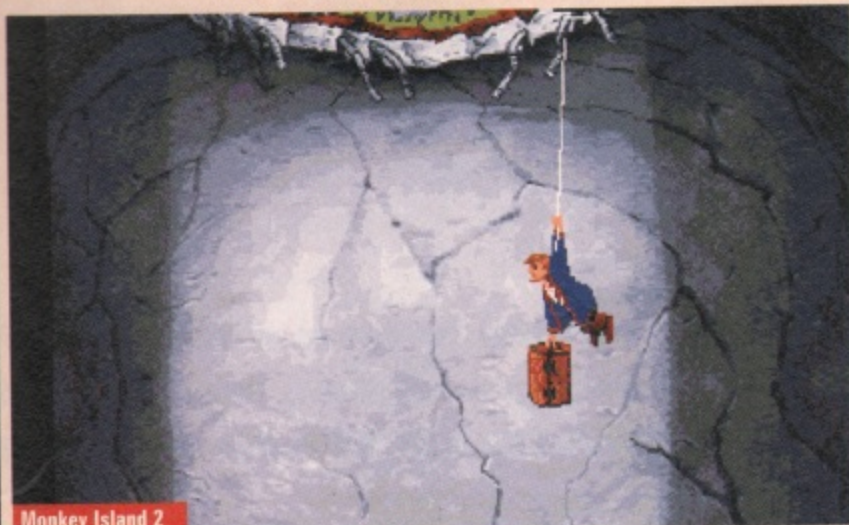
- Level 1 - 6D7FBC0F
- Level 2 - 6DFBBC0F
- Level 3 - 6C77BC0F
- Level 4 - 6CF3BC0F
- Level 5 - 6F6FBC0F

R U beyond help?

If you need help with any game, or if you have any tips you'd like to share with your fellow readers, write to us and mark your envelope Arcade or Adventure accordingly:

Tips Central, CU-Amiga Magazine,
37-39 Millharbour, Isle of Dogs,
London E14 9TZ.

Adventure helpline



Monkey Island 2

Monkey Island 2

I've recently started playing Monkey Island 2. I'd be grateful if you could tell me what to do on the boat in part 2. I've loaded the cannon with gunpowder and attached a fuse but I don't know what to do next or how to open the black chest and cupboard in the cabin.

Also in Monkey Island 2, where do I get the scissors to cut the lead the lizard is attached to, in the hotel?

Andrew, Oldham.

Sjur – Sure knows a monkey when he sees one! I don't know what you've picked up on the boat so far, so here's the entire solution for pt 2. Get the feather pen, the ink, and a dusty book somewhere in the captain's cabin. Read the book. Get back on deck and talk to the hardworking crew.

Then climb the ropeladder to get the Jolly Roger. In the kitchen pick up the pot, and open the cupboard. Take and then open the cereal to find a small key. Go down to the storage-room and open the chest. Inside it you'll find some fine wine. In the same room pick up the coil of rope, and some gunpowder. Back in the captain's cabin, use the small key from the cereal, on the cabinet.

Open the chest inside it to find a recipe and some cinnamon sticks. Read the recipe, and go to the kitchen. Ask yourself what people do in the kitchen, and do it. Yes, let's make some dinner. Use all the stuff in your inventory with the pot. Everything you don't need will be put into it, but nothing else. You should be able to get the following into it I think: minutes, note, business card,

feather pen, cereal, piece of paper, Jolly Roger, ink, breath mints, fine wine, 100% cotton T-shirt, T-shirt, rubber chicken, staple remover, small key, dusty book, cinnamon sticks, and gunpowder. Now use the map with the flaming mass, and the pot as a helmet, and test your skills as a human cannonball.

For your question on Monkey 2, I assume your lizard is an alligator? Let's agree on that, throw away the scissors, and we might get somewhere. What you need is the knife you'll find in the kitchen. Now all you have to do is find the kitchen. Walk through the window near the hatch leading to the bar, and you're in! The knife is on the table. Now just cut loose the alligator, and soon you'll have the whole hotel for yourself. Take advantage of it!

Monkey Island 2

I've been playing Monkey Island 2 for ages, and I've hit a dead end in terms of ideas. I'm stuck on Part 2: The Four Map Pieces, on the hard level of the game. I've got two of the map pieces (the one from the antique dealer and the one from Rapp Scallion) but cannot get the other two.

I know 1 is under the cottage on Phatt Island, but cannot win the drinking contest. I know you're meant to empty the grog onto the tree, and fill it with near-grog, but Captain Kate has had the rest of it



Beneath a Steel Sky

from the bar on Scabb Island.

Also in the cottage, I've used the telescope outside on the monkey statue which sends a beam of light through the open window, which reflects off the mirror onto the wall above the trap door, but it has no effect. The telescope falls off the statue before I enter the cottage.

The map piece from Governor Marley's mansion has been stolen by a bird and taken to the big tree on Booty Island, where it's lost in a big pile of other maps which the bird is guarding. I have no idea of how to get the map from the pile. I'd appreciate it very much if you could give me any help as it's a shame to ruin such a great game.

Gareth Armstrong, W Midlands.

You should have a leaflet you got from Captain Kate in your inventory. Use it on the poster on Phatt Isle, and leave the island. When you return Captain Kate has been captured, and is enjoying life in jail. As a former prisoner, you have a key. Use it to free Kate, and pick up the envelope with her belongings, including a bottle of near-grog. Now you can win the

drinking-contest by doing what you mentioned. Then stand on the trapdoor, and push the brick in front of you. Quite a ride? Let's try once more. You have opened the window, and used the mirror with the matching frame, so if you place the telescope on the statue, the sun will now burn a hole in the brick. Try pushing it again. Now you're very close to the map-piece.

Let's go for the last one too, shall we? Pick up the dog at the mansion, and use it on the pile in the big tree. Remember to leave your pockets open by the way, or the dog won't get enough air.

Beneath a Steel Sky

Please help, I'm stuck on Beneath a Steel Sky.

Firstly: Do I need the WD40 and the key in the pipe factory, and if so how do I get past the Crusader? And lastly: In the interface, how do I get past the hole without the thing inside it getting me?

Helen, Cardiff.

You don't need the WD-40 or the key, but I'd use the divine wrath to knock out a crusader. On your second question I can only think of one place with a hole and a hungry monster. You need the lightbulb from the powerplant control-panel to get past it.

Simply put the bulb in the socket on the left side of the hole, and stand on the left all the time to avoid becoming dinner. Now go right a couple of times and run down the tunnel, if you don't want the ceiling smashing your head that is. But that's enough help from me, so now you're back on your own.



Beneath a Steel Sky

We have been supplying our Customers with Refill Inks for many years, and most of our sales are re-orders. We demonstrate the quality of our Inks by providing a **FULL COLOUR PRINTOUT** with every Information Pack. Who else does this?

PHONE: 01702 202835

Feel free to come along for a fun day out for all the family

DIE HARD TRILOGY 93%	...	...	...	...	35.99
FORMULA 1 97	...	...	...	...	39.99
INT'L SUPERSTAR SOCCER PRO	...	...	...	...	34.99
JURASSIC PARK - LOST WORLD	...	...	...	...	35.99
MICRO MACHINES 3 94%	...	...	...	...	27.99
ODDWORLDS: ABE'S ODDYSEE	...	...	...	...	31.99
PREMIER MANAGER 98	...	...	...	...	29.99
RAGE RACER 94%	...	...	...	...	34.99
SOVIET STRIKE 82%	...	...	...	...	19.99
SYNDICATE WARS 88%	...	...	...	...	35.99
TOMB RAIDER 95%	...	...	...	...	35.99
WARCAPT 2 90%	...	...	...	...	36.99

WORMS 52%	17.99
N64 TOP 15	
BLAST CORPS	46.99
F1 POLE POSITION	44.99
FIFA SOCCER	29.99
GOLDENEYE WITH FREE	
256K MEMORY CARD (RUM.)	52.99
INT'L SUPERSTAR SOCCER 64	49.99
KILLER INSTINCT GOLD 60%	46.99
LYLT WARS (90%) + RUMBLE PACK	
WITH FREE MEMORY CARD	52.99
MARIO KART 64 90% WITH	

FREE MEMORY CARD	52.99
MORTAL KOMBAT TRILOGY	49.99
PILOT WINGS 64 90%	41.99
SHADOWS OF THE EMPIRE	
WITH FREE 256K MEMORY CARD	52.99
SUPER MARIO 64 WITH	
FREE 256K MEMORY CARD	52.99
TONIC TROUBLE +	44.99
TURK - DINOSAUR HUNTER 97%	43.99
WAVE RACE 64 92%	46.99

SATURN TOP 15

ACTUA GOLF 90%	17.99
----------------	-------

DIE HARD TRILOGY 93% (PLG)	22.95
DRAGON FORCE 90%	34.95
PREMIER MANAGER 98	31.95
RESIDENT EVIL	39.95
SHINING THE HOLY ARK 93%	33.95
SONIC 3D 90%	29.95
SONIC JAM 92%	29.95
SOVIET STRIKE 91%	26.95
THEME PARK 92%	15.95
TOMB RAIDER 95%	29.95
VICTORY BOXING	18.95
VIRTUA FIGHTER 2 98%	19.95
WARCRAFT 2 88%	36.95

WE ALSO STOCK A HUGE RANGE OF BOOKS FOR CONSOLES AND PC GAMES & HARDWARE

ACTUA FOLIO 90%	17.9%
DIE HARD THIRDSY 93% (PLG)	22.9%
DRAGON FORCE 90%	34.9%
PREMIER MANAGER 98	31.9%
RESIDENT EVIL	39.9%
SHINING THE HOLY ARK 93%	33.9%
SONIC 30 90%	29.9%
SONIC JAM 92%	29.9%
SOVIET STRIKE 91%	26.9%
THEME PARK 92%	15.9%
TOMBS RAIDERS 95%	29.9%
VICTORY BOXING	18.9%
VIRTUA FIGHTER 2 98%	19.9%
WARCRRAFT 2 88%	36.9%

WE ALSO STOCK A HUGE RANGE OF BOOKS FOR CONSOLES AND PC GAMES & HARDWARE

SCART LEAD		FOR A1200/A600	39.9
AMIGA TO SCART TV	10.99	FOR A500	39.9
SCART LEAD		EXTERNAL DISK DRIVE	47.9
CD32 TO SCART TV	10.99		

We GUARANTEE TOTAL SATISFACTION! Inevitably some products listed may not yet be available. Please phone to check availability. Prices may change without prior notification. **SAVE** - Saving off full recommended

SEGA 64 £144.99 including controller. **PLAYSTATION £129.99** includes controller and 'Demo 1' CD. **PLUS** save £10 on any other item bought at the same time.

TechScene this month has some really exciting stuff for you to look at - check out our lead review of the PowerPC accelerator from phase5. Plus some superb animation and sound sampling software too, and the fastest A600 in the west...

54 CYBERSTORM PPC

After last month's sneak preview Mat Bettinson gives the S.P. on phase 5's new PowerUP card.

58 SOUND PROBE

Could this be the ultimate sound sample editor? This fully featured fast fourier frenzy comes under our demanding scrutiny.

62 PICTURE MANAGER PRO

Mat Bettinson reviews this combined thumbnail cataloguer, processor and image converter.

66 APOLLO 630 CARD

Still have an A600 knocking around? Want to make it faster? This is the card for you. The best specified A600 card yet.

69 WILDFIRE

Wildfire has been making quite a name for itself as a hugely powerful animation effects program. Now it's a commercial release, and sporting PPC support. Does it live up to the hype?

70 PERMEDIA 2 PREVIEW

We take a look at the Permedia 2 3D graphics chipset from 3DLabs. The heart of the Cybervision and Blizzardvision PPC graphics cards, this chip does things no Amiga graphics card has ever done before.

72 PD SCENE

Steve Bye has a field day with all these games to play, pausing only briefly to give them scores...

74 PD UTILITIES

...then Steve gives his verdict on a trailer load of useful public domain Software.

78 CD-ROM SCENE

Aminet 21, Fontmania and The Games Room are put under close scrutiny by Andrew Korn.

80 ART GALLERY

You the readers artistry is put on show for all to see and enjoy... Andrew Korn dons his art historian's cap...

Cyberstorm PPC



PowerPC Amigas are now a reality since the arrival of phase 5's Cyberstorm PPC.

Following last month's exclusive first look, here's the full nitty gritty.

■ **Price: See Options box**

■ **Supplier: Power Computing ☎ 01234-851500**

The Cyberstorm PPC's entrance to the CU Amiga offices was not what it should have been. It should have been delivered upon a red velvet cushion, pandanus petals sprinkled in it's path and a choir of 64 nubile virgins awaiting the Arrival. Instead the usual hairy old posty dumped it in reception. What the Royal Mail lack in a sense of occasion was adequately balanced by our enthusiasm to check our phase 5's first installment in the PowerUp masterplan.

In case you've not been paying much attention to the Amiga world of late, here's why this board is creating so much excitement. When the Amiga was first specified back in the early 80's, the designers chose to use a central processing unit from Motorola called the 68000, a very advanced and excellently designed chip. Motorola developed this chip in increasingly more powerful models such as the 68020 used in the A1200, the 68030, '040 and the '060 which is the fastest CPU for the Amiga. Then Motorola stopped and moved over to their new generation of RISC processor, the PowerPC. RISC chips use an instruction set which is more rationalised than traditional CISC processors such as the 680x0 series and the Intel processors used in the PC. They are able to execute

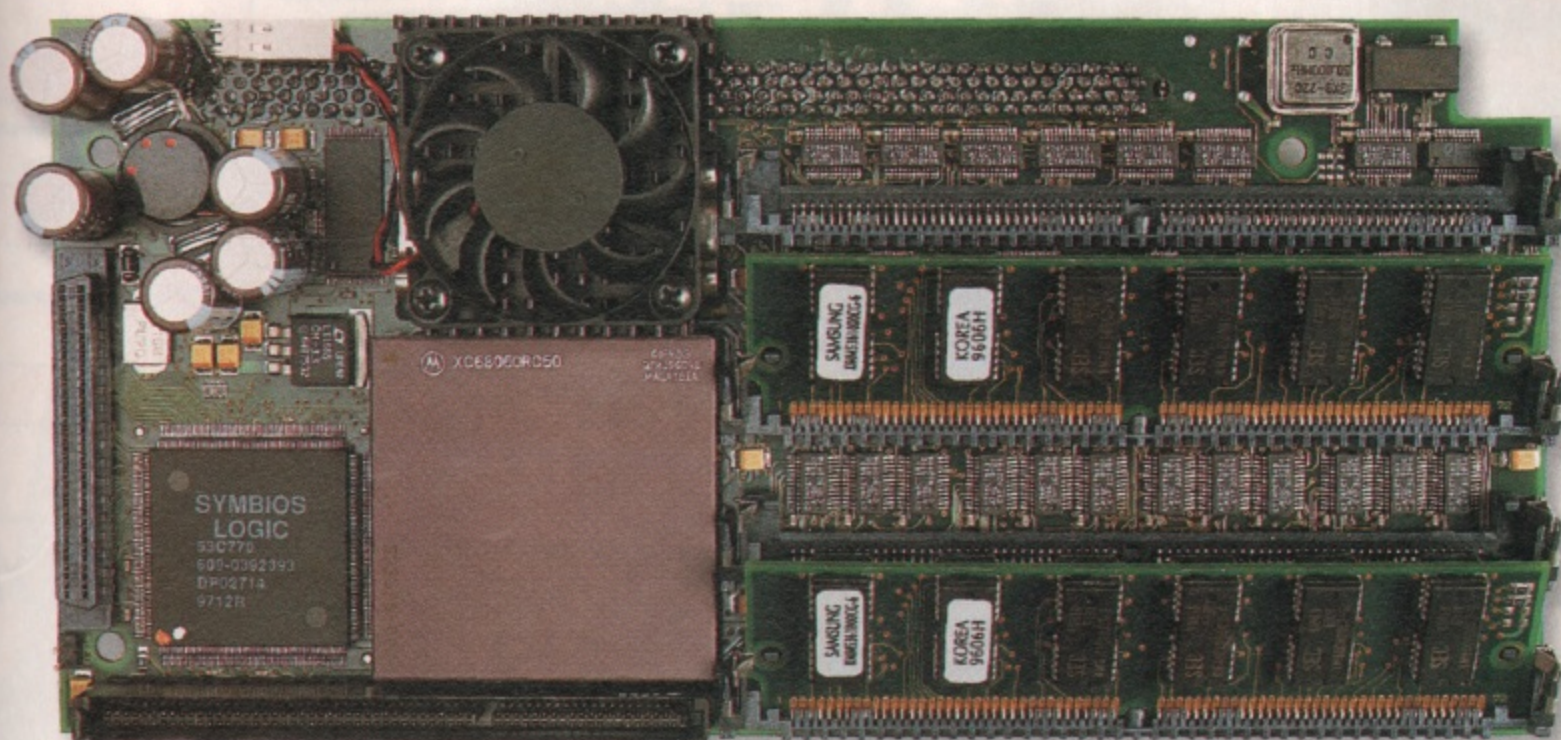
commands using less clock cycles, and are therefore fundamentally faster. The Apple Macintosh, which like the Amiga started on a 68000, moved to PowerPC a few years ago, while the ownerless Amiga has been left clinging to a series of CPUs which are increasingly looking like yesterday's technology. Phase 5 have decided to change all that with a range of accelerator cards which use the PowerPC chips as a multiprocessor, sharing system access with a fast 680x0 chip to retain full compatibility.

The CS-PPC itself is a so-called 'fast slot' accelerator so it will fit all Amigas equipped with one such as the A3000 and A4000 desktop and tower versions. However, A3000s require a hardware modification because of a lacking INT line. Instructions on the hack required can be found at <http://www.vgr.com/int2> and in the web section of our CD.

The most noticeable thing about the card physically is the brisling of large capacitors in one corner. These form part of the power supply circuit which is necessary because of the voltages that the 68060 and PowerPC require. It doesn't take a rocket scientist to figure out that the hardware is an engineering masterpiece. Every square centimetre of PCB has a component on it. There's a bank



▲ The Cyberstorm PowerPC is the first part of the phase 5 PowerUp project. Shortly to come are the BlizzardPPC and the CybervisionPPC and BlizzardVisionPPC graphics cards, then multiprocessor cards and finally, the A/box.



of 4 SIMM sockets, a SCSI Ultra-Wide connector and another large connector for the forthcoming CyberVision PPC (see page 70). The 68060 sits next to the Symbios Logic 53C770 SCSI controller and dwarfs the much smaller PowerPC 604e itself. There is a small quiet fan and heatsink on the PPC provided but it seems to run extremely cool anyway.

The CS-PPC operates a true 64-bit memory architecture which means that SIMMs need to be populated in pairs of the same size. 60 or 70ns SIMMs can be used but with the faster units, the memory timing can be sped up with a small tool which increased the PPC Memread benchmark from 156Mb/s to 185Mb/s. Wow!

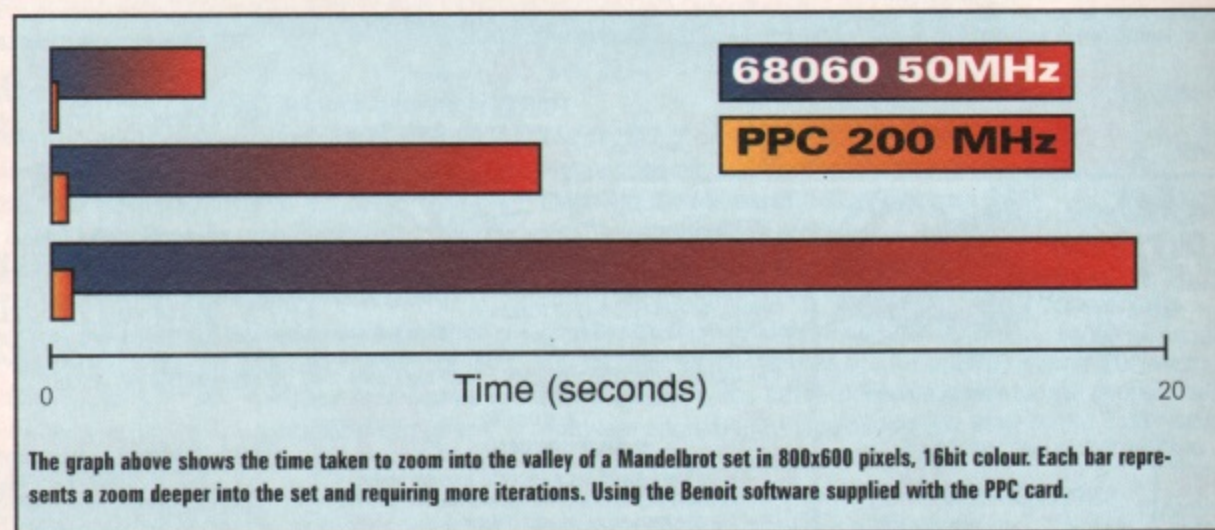
Ultra SCSI

The built-in fast DMA SCSI Ultra Wide interface is just as new to the Amiga as the PowerPC CPU. Unfortunately using it requires the addition of some moderately expensive cables and active terminators.

There's so little space on the board that there's not even a SCSI terminator so in the most basic configuration one would need a SCSI-UW hard drive, a cable to the drive and an active terminator on the other end. None of that will come cheap. To get the most from this already expensive card, quite a bit

more money is going to have to be spent on the SCSI side. It is also possible to get adaptors to standard SCSI-II so existing devices can be used. However the Amiga dealers seem slow off the mark in stocking the required cables and adaptors.

Inclusion of the fastest possible SCSI interface clearly identifies the CS-PPC as a no-compromise high-end performance card, but with a high end price too. Cheaper A1200 PPC accelerators are to come, big-box Amiga users may have no choice but to wait until the CS-PPC price comes down.



Support software

In the CS-PPC box is a CD-ROM and two floppy disks. One floppy disk contains the drivers and prep utilities for the SCSI interface. The other contains the ppc.library necessary to use the card. For some reason, phase 5 neglected to include an installer that copies the ppc.library or even a readme to detail this. In fact the entire PPC-CD-Update drawer doesn't have an icon.

Sadly this is a recurring theme with the support CD-ROM also which is very poorly organised. The phase 5 PPC demos and developers ADE environment can be found in the PPCRelease drawer while a couple of third party PPC demos can be found in the Contrib drawer. The CD shows signs of being a bit of a rush job, no doubt a product of phase 5's desire to get the boards out to an impatient public as quickly as possible.

Updates and patches are already appearing, and there is likely to be a much better polished CD pretty soon now, but in the current form, getting everything up and running is a bit of a struggle. Originally there were plans to release this with a version of the CybergraphX retargettable graphics system

▲ Everyone wants to know the answer to one simple question: How fast? Until comprehensive benchmark utilities such as AIBB are available for PPC, any benchmarks are going to be pretty dubious. Here we show the advantage of PPC for one good real world application, fractal rendering.

Cyberstorm PPC options

Cyberstorm PPC	150MHz	604e	no 680x0 CPU	£489.95
Cyberstorm PPC	150MHz	604e	68040 40MHz	£549.95
Cyberstorm PPC	150MHz	604e	68060 50MHz	£699.96
Cyberstorm PPC	180MHz	604e	no 680x0 CPU	£579.95
Cyberstorm PPC	180MHz	604e	68040 40MHz	£699.96
Cyberstorm PPC	180MHz	604e	68060 50MHz	£799.95
Cyberstorm PPC	200MHz	604e	no 680x0 CPU	£679.95
Cyberstorm PPC	200MHz	604e	68040 40MHz	£719.95
Cyberstorm PPC	200MHz	604e	68060 50MHz	£879.95



AMIGA[®] INTERNATIONAL, Inc.

AMIGA 1200 MAGIC PACKS

68020/14.3MHz
2MB RAM
No HD

£249.99

At last, the AMIGA is BACK ON SALE with NEW machines from AMIGA INTERNATIONAL Inc. ALL machines are FULL UK Specification and come BUNDLED with Wordworth v4SE (Word Processor), TurboCalc v3.5 (Spreadsheets), DataStore v1.1 (Database), PhotoGenix v1.2SE & Personal Paint v6.4, ORGANISER v1.1, PINBALL MANIA, WHIZZ AND NOW
Directory Opus 4.12!

ALL HARD DISK MODELS ALSO INCLUDE THE ABOVE SOFTWARE & SCALA MM300 PRE-LOADED, THE OFFICIAL AMIGA HARD DISK MANUAL & HD INSTALL DISK.

FREE UK DELIVERY

MONITOR OPTIONS

Low Cost 14" Monitor
15KHz Only
TV Display
Remote Control
AMIGA CABLE SUPPLIED
£159.99

Professional 14" Monitor
MultiSync 15 - 31.5KHz
Flicker Free Display
AMIGA CABLE SUPPLIED
£249.99

68020/14.3MHz
6MB RAM
170MB HD
SCALA MM300
£349.99

68030/40MHz
10MB RAM
170MB HD
SCALA MM300
£419.99

68040/25MHz
18MB RAM
1.3GB HD
SCALA MM300
250w PSU
£599.99

68040/40MHz
34MB RAM
1.3GB HD
SCALA MM300
250w PSU
£699.99

HARD DISKS

Complete Expansion Kit Solution for the Amiga A1200

3 YEAR WARRANTY

Yes, at long last, a PROFESSIONAL way to install a HIGH CAPACITY HARD DISK WITHOUT removing parts from your machine or bending your keyboard around the drive. Our packs come with EVERYTHING you need to install the drive into an A1200, Cables for power and data, instructions & 7 disks FULL of HOT software such as Directory Opus 4.12 (worth £50), MUI 3, MCP, Galaga AGA, Virus Checker, Mods, ReOrg, ABACKUP and MUCH MORE. All software can be installed with our custom click 'n' go system. All drives are pre-installed with the system software & above disks - unlike others we provide the disks JUST IN CASE!

1.3GB £159.99
2.5GB £219.99

Want us to fit your Hard Disk for you? Call for more details.

REPAIRS

by Qualified Technicians

- ALL AMIGA COMPUTERS COVERED
- PRICES FROM AS LITTLE AS £29.99
- MANY REPAIRS BY WIZARD REQUIRE NO PARTS
- PRICES INCLUDE INSURED COURIER COLLECTION & DELIVERY, LABOUR, FULL DIAGNOSTICS, SERVICE, SOAK TEST & VAT.
- FAST TURNAROUND
- ALL TECHNICIANS ARE FULLY TRAINED & QUALIFIED
- UPGRADES BOUGHT AT SAME TIME FITTED FREE!
- 90 DAYS WARRANTY ON ALL REPAIRS

ALL FOR JUST **£29.99** + PARTS

WE HAVE A LARGE RANGE OF PARTS FOR ALL AMIGA'S - DRIVES, KEYBOARDS, MOUSE PORTS, CHIPS AND MORE. PLEASE CALL FOR PRICING DETAILS.



MAGNUM

A1200 Expansion Cards

SPEED INCREASE OF UP TO 27 TIMES • 68030/EC, 68040 OR 68060 PROCESSOR RUNNING AT 33, 40 OR 50MHz • MMU IN ALL PROCESSORS (EXCEPT 68030EC TYPE) • *O40 FITS STANDARD A1200 - NO PROBLEM & IS SUPPLIED WITH A HEATSINK & FAN • UP TO 32MB OF RAM CAN BE ADDED • KICKSTART REMAPPING (EXCEPT 68030EC VERSION) • OPTIONAL SCSI INTERFACE • CAN ACCOMMODATE A 72-PIN SIMM • 68040/60 HAVE BUILT-IN FPU • BATTERY BACKED CLOCK/CALENDAR • PCMCIA COMPATIBLE SO YOU CAN STILL USE PRODUCTS SUCH AS OVERDRIVE HD OR CD/ZAPPO CD-ROM OR SQUIRREL • ZERO WAITE STATE DESIGN. SCSI-II INTERFACE FOR THE MAGNUM 68030/68030EC/68040 & 68060 CARDS - SUPPLIED WITH SOFTWARE - **£79.99**

	0MB	4MB	8MB	16MB	32MB
'030/33 & FPU	£89.99	£109.99	£129.99	£159.99	£209.99
'030/40 (68030EC CHIP)	£89.99	£109.99	£129.99	£159.99	£209.99
'030/40 & FPU (68030EC CHIP)	£99.99	£119.99	£139.99	£169.99	£219.99
'030/50	£119.99	£139.99	£159.99	£189.99	£239.99
'040/25 & FPU	£179.99	£199.99	£219.99	£249.99	£299.99
'040/40 & FPU	£229.99	£249.99	£269.99	£299.99	£349.99
'060/50 & FPU	£349.99	£369.99	£389.99	£419.99	£469.99



SPEED INCREASE OF 2.3 TIMES - 2.88MIPS • AVAILABLE WITH 0 OR 8MB OF 32-BIT RAM INSTALLED • USES A STANDARD 72-PIN SIMM • OPTIONAL PLLC TYPE FPU (FLOATING POINT UNIT) • BATTERY BACKED CLOCK/CALENDAR • FINGER CUTOUT TO HELP INSTALLATION • TRAPDOOR FITTING - DOESN'T VOID WARRANTY • 0-4MB PCMCIA COMPATIBLE (FOR USE WITH OVERDRIVE, SQUIRREL ETC.) • ZERO WAITE STATE DESIGN.

RAM8 £39.99
RAM8 £54.99
& 33MHz FPU £79.99
£59.99
£74.99
£94.99

FROM £39.99

LOWEST EVER PRICES!

560 DPI 3 BUTTON MICE & MATS

for all Amigas & Atari STs

Award winning 560DPI Resolution • 90% RATING IN CU AMIGA • MICRO SWITCHED BUTTONS • AMIGA/ATARI ST SWITCHABLE • ALL 3 BUTTONS CAN BE USED WITH MANY PROGRAMS SUCH AS DIRECTORY OPUS 5

FREE THIRD BUTTON DRIVER DISK
BEIGE OR BLACK £12.99
MAT £2.99 OR £1 WITH A MOUSE

OPUS 5

THE ULTIMATE WORKBENCH REPLACEMENT & FILE MANAGEMENT SYSTEM

COMBINES THE EASY TO USE WORKBENCH ENVIRONMENT AND THE POWER OF OPUS IN ONE • REPLACE AND ENHANCE WORKBENCH • OPUSFTP TO OPEN AN FTP SITE AS A FILE LISTER • INTERNAL MULTI-TASKING SO YOU CAN

PERFORM MULTIPLE FILE OPERATIONS SIMULTANEOUSLY (WORKBENCH CAN'T!) • FILE-TYPE SPECIFIC PULLDOWN MENUS • HOTKEYS • SCRIPTING • EXTENSIVE DRAG 'N' DROP THROUGHOUT • ADVANCED AREXX SUPPORT • PICTURE, SOUND & FONT VIEWER • MUI & NEWICONS SUPPORT • SORT FILE LISTS & DISPLAY VERSIONS AND FILETYPES • CYBERGRAPHIC SUPPORT

Workbench 2+ & Hard Disk Required **£49.99**

PC TASK 4

Advanced 486 PC Software Emulator

VERSION 4.2 NOW SHIPPING
FEATURING ADVANCED 486 SOFTWARE EMULATION, DYNAMIC COMPIRATION FOR FASTER EMULATION, UP TO 16MB ACCESSIBLE UNDER MS-DOS, MDA, CGA, EGA, VGA & SVGA SUPPORTED, UP TO 256 COLOURS ON AN AGA MACHINE, CYBERGRAPHIC SUPPORT, MULTIPLE HARD DISK FILES OR PARTITIONS SUPPORTED, CD-ROM AND HIGH DENSITY DRIVES SUPPORTED, RUN MS-DOS APPLICATIONS IN A WINDOW ON WORKBENCH! RUN WINDOWS 3.1 IN ENHANCED MODE! MANY TIMES QUICKER THAN VERSION 3.1.
REQUIRES KICKSTART 2.0 OR ABOVE & A 68020 PROCESSOR OR BETTER.
£69.99

PowerBox

250w Amiga Power Supply

POWER-UP YOUR AMIGA WITH THIS 250W ENHANCED AMIGA PSU FOR LITTLE MORE THAN THE PRICE OF A NORMAL 25-30W AMIGA PSU! DESIGNED FOR A500/600 & 1200 (CD32 ALSO AVAILABLE). ENCASED IN STEEL SUBSYSTEM, ALL CABLES SUPPLIED, WHISPER QUIET FAN, ILLUMINATED ON/OFF SWITCH, MONITOR OUTLET ON BACK OF PSU, ONLY QUALITY/NEW PSU'S USED, 3.5" & 5.25" POWER CABLES AVAILABLE TO POWER EXTERNAL CD-ROMS, HARD DISKS ETC.

POWERSTRIP £49.99
POWER 4 NORMAL PLUGGED DEVICES (MONITOR, PRINTER, SPEAKERS ETC) DIRECT FROM THE BACK OF POWERBOX. TURN ALL PRODUCTS ON/OFF WITH JUST ONE SWITCH. **£19.99**

TURBOPRINT 5

Printer Enhancement Software

IF YOU HAVE A PRINTER - YOU MUST GET TURBOPRINT. IT RADICALLY ENHANCES THE PRINTOUTS YOU NORMALLY GET BY REPLACING THE AMIGA PRINTER SYSTEM WITH THE FASTER AND VISIBLY BETTER TURBOPRINT SYSTEM. OPTIONS INCLUDE POSTER PRINTING, COLOUR CORRECTION, DITHERING, COLOUR BALANCING, ON-SCREEN PREVIEW AND MUCH MORE... MOST PRINTERS ARE SUPPORTED - CALL TO CHECK. VERSION 5 INCLUDES "GRAPHIC PUBLISHER" TO LOAD MULTIPLE PICTURES, INDIVIDUAL COLOUR CORRECTION, ROTATE, TWIST AND MORE. ENHANCED TRUEMATCH COLOUR CORRECTION, NEW DRIVERS FOR HP, CANON, EPSON STYLUS AND CITIZEN MODELS. AMIGA FORMAT GOLD. CU AWARDS.

£49.99

SATURN

External 1mb Floppy Drive for all Amigas

COMPATIBLE WITH ALL AMIGAS • HIGH QUALITY SONY DRIVE • ROBUST METAL CASE • ANTI-CLICK AS STANDARD • ENABLE/DISABLE SWITCH • LOW POWER CONSUMPTION • THRU PORT FOR EXTRA DRIVES
WITH POWERCOPY HARDWARE/SOFTWARE BACKUP SYSTEM & 3 GAMES
£39.99
FREE OPUS 4.12
£49.99

EASYLEDGERS 2 - THE ONLY FULL ACCOUNTS PACKAGE, AMIGA FORMAT GOLD - CALL ABOUT TRAIL OFFER - HARD DISK & 2MB RAM REQUIRED - £119.99	A500 512k RAM EXPANSION £14.99 A500PLUS 1mb RAM EXPANSION £19.99 A600 1mb RAM EXPANSION £19.99 ALL WITH A FREE OPUS 4 WORTH OVER £50
GP FAX - SEND FAXES TO AND FROM YOUR AMIGA. EVEN FAX DIRECTLY FROM YOUR APPLICATION. AMIGA FORMAT GOLD - AMIGA COMPUTING 9/10 - FAX COMPATIBLE MODEM REQUIRED - £44.99	50 25/DD DISKS & COLOUR LABELS £14.99 100 25/DD DISKS & COLOUR LABELS £24.99
IMAGEFX 2.6 - THE MOST COMPLETE IMAGE PROCESSING PACKAGE THERE IS FOR THE AMIGA. AMIGA FORMAT GOLD - CU AWARD - 2MB & HARD DISK REQUIRED - £179.99	4MB 72-PIN SIMM £20 8MB 72-PIN SIMM £40 16MB 72-PIN SIMM £70 32MB 72-PIN SIMM £120 ALL SIMMS ARE NEW AND HAVE A 1 YEAR WARRANTY
33MHz FPU KIT - PLLC TYPE FPU & CRYSTAL - WILL FIT MOST CARDS - CALL TO CONFIRM - £29.99	

BSB

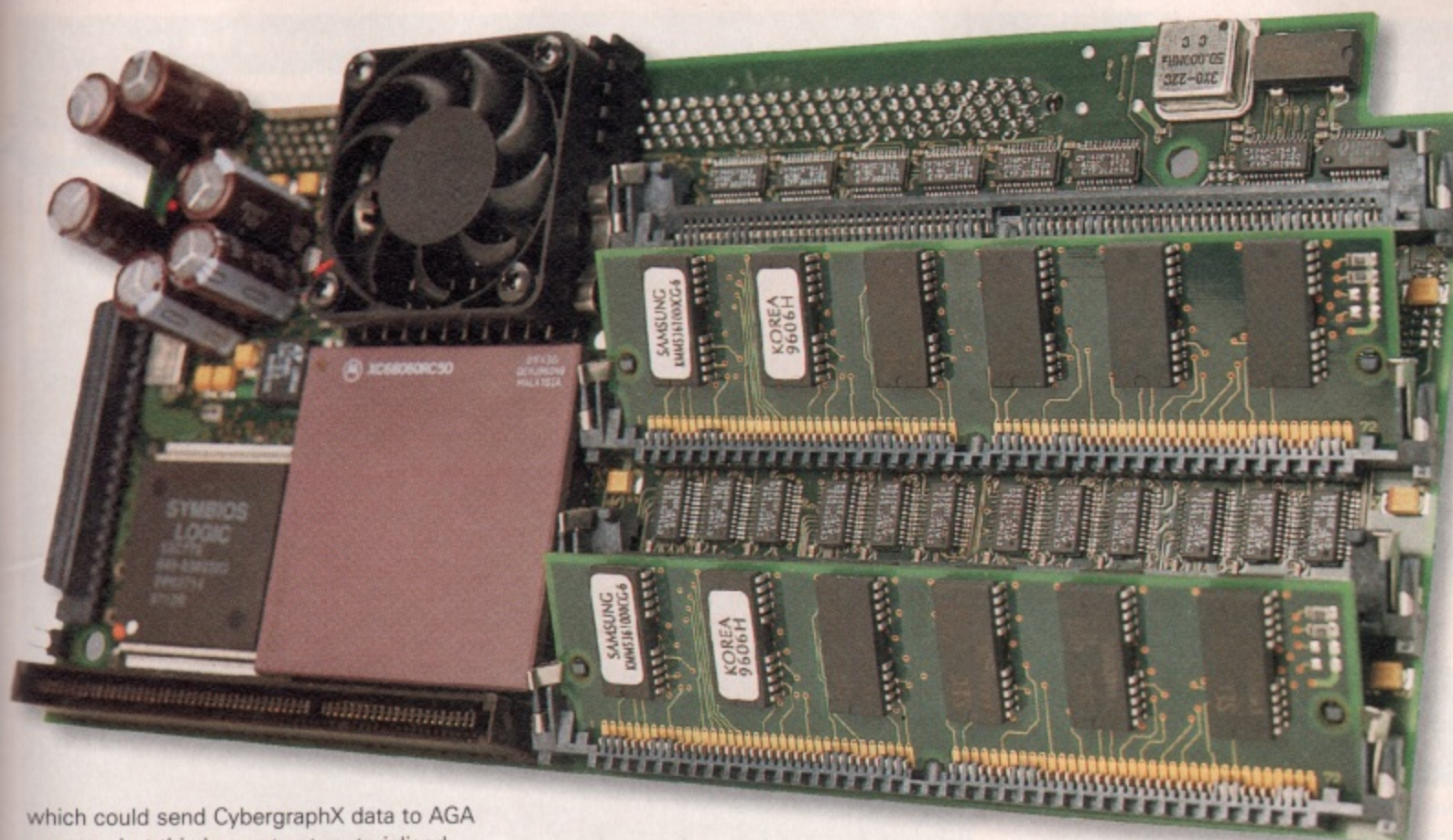
Books & Videos

INSIDER GUIDE - A1200	£14.99
INSIDER GUIDE - A1200 NEXT STEPS	£14.99
INSIDER GUIDE - ASSEMBLER	£14.99
INSIDER GUIDE - DISKS & DRIVES	£14.99
INSIDER GUIDE - WORKBENCH 3 A-Z	£14.99
TOTAL AMIGA - WORKBENCH 3	£19.99
TOTAL AMIGA - AMIGADOS	£21.99
TOTAL AMIGA - AREXX	£21.99
TOTAL AMIGA - ASSEMBLER	£24.99
MASTERING AMIGA SCRIPTS	£19.99
MASTERING AMIGA BEGINNERS	£19.99
MASTERING AMIGA PRINTERS	£19.99
MASTERING AMIGADOS 3 - REFERENCE	£21.99
MASTERING PROGRAMMING SECRETS	£21.99
AMIGADOS PACK	£34.99
TOTAL AMIGA - AMIGADOS & MASTERING AMIGADOS - REFERENCE USUALLY £43.94 - SAVE NEARLY £10	
A1200 BEGINNER PACK	£39.99
2 BOOKS (INSIDER A1200 & NEXT STEPS), A 60 MINUTE VIDEO, 4 DISKS OF PD TO GO WITH THE BOOKS/VIDEOS	
A1200 WORKBENCH 3 BOOSTER PACK	£39.99
2 BOOKS (DISKS & DRIVES & WORKBENCH 3 A-Z), A 90 MINUTE VIDEO, 1 DISK & REFERENCE CARD	
** BUY 2 OR MORE BSB PRODUCTS **	
** AND GET 10% OFF! **	

ORDER HOTLINE
0181-303-1800
FAX 0181-303-1861
WE ARE OPEN 9AM AND 5.30PM, MONDAY TO SATURDAY, TO PAY BY CREDIT CARD. TO PAY BY CHEQUE OR POSTAL ORDER PLEASE SEND YOUR ORDER TO - WIZARD DEVELOPMENTS, PO BOX 490, DARTFORD, KENT, DA1 2UH

WIZARD DEVELOPMENTS
Cheques should be payable to WIZARD DEVELOPMENTS. Prices include VAT & carriage to the UK mainland. Please add £5 for EC destinations and £10 for other countries. All products are subject to availability. E&OE. Advertised prices & specification may change without notice. All sales are subject to our trading conditions - copy available on request.

CONTACT US ON INTERNET
sales@wizard-demon.co.uk



◀ The big chip in the middle is the 68060 – the PowerPC chip is hidden under the fan. At the far end is the SCSI 3 connector, and that odd slot at the bottom is the graphics card slot.

which could send CybergraphX data to AGA screens, but this has not yet materialised. Most of the demos require CybergraphX, however, so AGA users are going to feel rather left out.

The selection of software on the CD is quite varied and mostly best used to demonstrate the board's power and little else, but there are a few very useful exceptions, such as LW show, a lightning fast Lightwave object displayer, XPK compression routines in PPC, and some MPeg software. Benoit is a respectable Mandelbrot fractal explorer. This has a flip gadget between 68K and PPC code and correspondingly has a major impact on rendering time.

The MemTest program performs a memory benchmark on the PPC and 68K CPU. Oddly the program to switch the CS-PPC to the faster 60ns RAM timing is not present on the CD-ROM or floppies, you can find it in the magazine directory of the CD.

Isis PPC could be a highly useful program. This is an MPEG video player which requires a Cybergraphics 16 or 24-bit screen. It locked up on running on our machine until a later ppc.library was obtained from phase 5. Even then it was highly unstable.

As of going to press this was still being worked on. We did get it to run a couple of times and it delivered highly acceptable mpeg video playable. PPCMpegPlayer plays MPEG audio including layer 3. It does so via the AHL retargettable audio system; so taking advantage of a variety of superb sounding 14-bit Paula modules as well as virtually any third-party 16-bit audio card going. It sounded great and used virtually no 68K CPU time.

In fact, we calculated that it was using only 16% of the 200MHz 604e too. If you have a good collection of MPEG audio, then this will be extremely handy indeed.

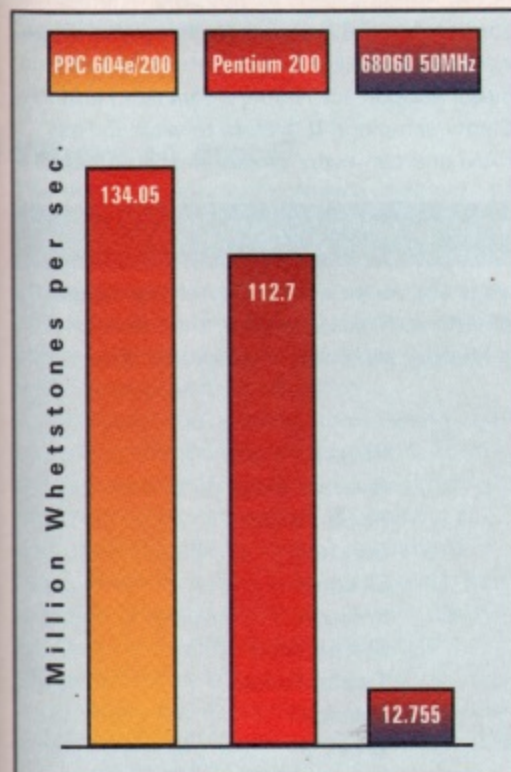
The bright future

The developers support for PowerUp is initially quite dire. There's no proper Amiga native compiler which can generate PowerPC code. However, Wolf Deitrich of phase 5 informed us that the Amigas best compiler, SAS C, would be upgraded to PowerPC support. This is superb news for one and all, while SAS no-longer officially support SAS C on the Amiga, the package is in full development by its core author. phase 5 also hinted that they may make SAS C PPC available to dealers, currently it's not sold in Europe and this would make a high quality PPC development system widely available. The Cyber-

storm PPC is expensive, however it has the highest specification ever seen on the Amiga platform; the fastest 68060, the fastest SCSI and, the ultimate in computing power, the 200MHz 604e. Software releases are trickling in and programs like Wildfire PPC and so on will rapidly make this a must have product for anyone using an Amiga for professional graphics. It's totally dependent on software appearing to take advantage of it, but software developers have greeted this arrival with a lot of enthusiasm – rumour has it we'll even see Lightwave reappearing on the Amiga in PPC form.

Prices will fall and low end products will be introduced for the A1200 in the first Quarter of 1998. The CS-PPC proves phase 5 can do it but that there's further work to do on the software support front. Having shipped 1500 of these units so far, the future looks bright for PowerPC on the Amiga. ■

Mat Bettinson



▲ Andreas Heumann's port of the Whetstone benchmark to PPC makes preliminary speed comparisons possible, and here are the results.

CYBERSTORM PPC Developer: phase 5

System Requirements: An Amiga with the 'fast slot'. A3000s need a modification.

Ease of use	84%
Dismal CD-ROM and installation procedure but the accelerator has no jumpers to fiddle at all.	
Performance	98%
Is there a person in the house who's not impressed? POWER in capitals.	
Value for money	78%
Horrendously expensive, this may price big-box Amiga users out of the PowerUp program.	

OVERALL
Too pricey, but for the power user this is simply a must have.

90%

Sound Probe



■ Price: £24.95 ■ Supplier: HiSoft ☎ 0500 223 660 <http://www.hisoft.co.uk>

An all-in-one sampling and editing solution for everything from low to high end audio sound too good to be true, but could it be?

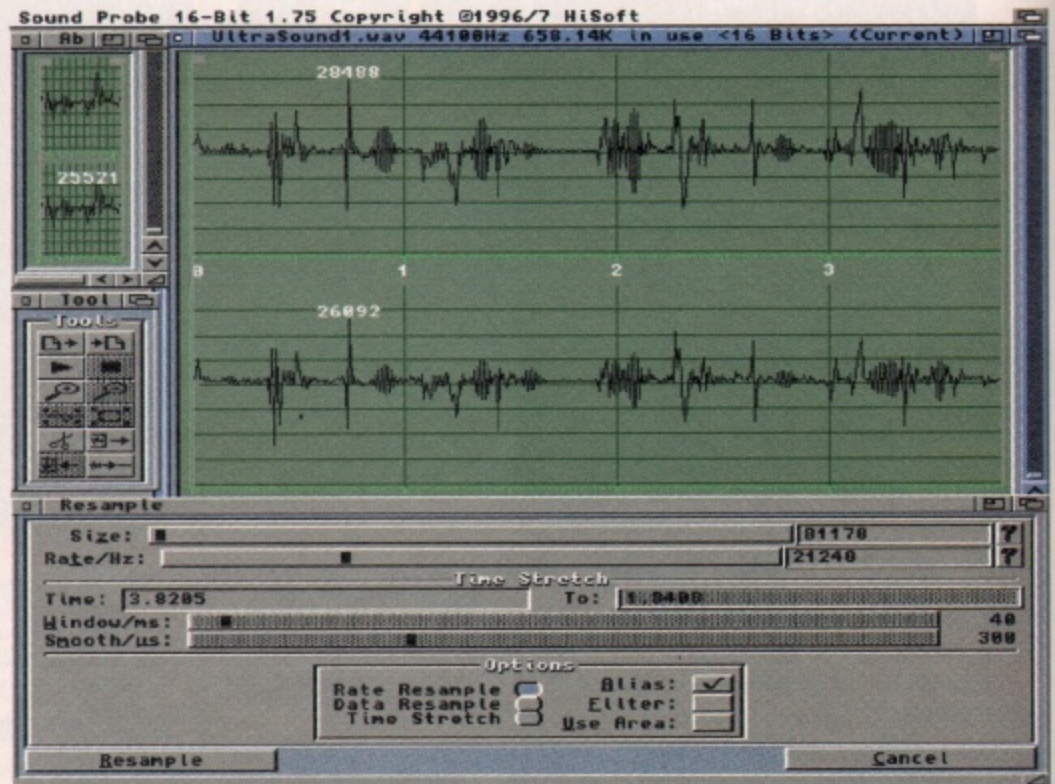
► Try the Timestretch feature for long 'n' lazy vocals that crop up in almost every dance track these days.

Aside from SoundStudio, Amiga audio software development seemed to come to a grinding halt about three years ago. To be fair, most developers had probably had enough of trying to squeeze professional quality audio out of Paula, the Amiga's old four channel 8-bit sound chip.

Commodore had been promising audio improvements for years, and when audio was overlooked with the release of the A1200, new rumours sprang up about an official Commodore Amiga DSP add-on. It never turned up, but since then the 8-bit limits of Paula have become less of an obstacle.

The likes of SoundStudio and its 'direct to disk' song recording features, when combined with the falling price of CD-R writers, have made it possible to bang out 16-bit digital masters on an A1200, while sound cards such as Delfina and Tocatta offer basic but high quality 16-bit digital stereo input and output for Zorro-equipped Amigas.

It's about time some new software was released to take advantage of all of these advances and more – to take it to the next



stage. That's what Sound Probe hopes to do.

A new approach

The bulk of sampling software the Amiga has been subjected to in the past has probably been a bit 'off the wall' to put it politely – buggy, hacky and without a screenmode requester between them. That's fine if you never knew your Amiga could multitask, only ever used it with a TV and never wanted to do anything else but use that one program.

These days most of us expect a bit more.

Sound Probe is a 'proper' Amiga application with familiar looking windows, pull down menus, a screenmode selector and more configuration options than you'll ever need.

It's also been designed as a modular system so as to fit in and adapt to as many different Amiga setups as possible. There's support for 16-bit sound cards via the shareware retargettable audio system AHL and direct support for HiSoft's own Aura and Clarity samplers. It prefers to work in Fast RAM and can even handle enormous hard

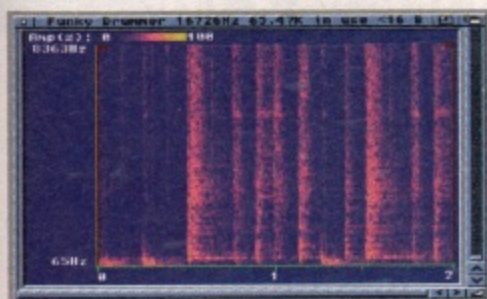
Just for effect

Any sample editor can cut and paste chunks of data. What separates the men from the boys is the range and power of the sound processing tools on offer. Sound Probe really goes to town when it comes to special effects with a modular system that allows new ones to be added in future. Top billing goes to the Timestretch feature, while there's a healthy selection of others to filter, phase, polish and distort your sounds with. Here's the complete list (so far)...

Area Echo	Crossfade	Low Pass AV	Reverb
Band Pass Booster	DC Adjust	Metallic	Reverse Echo
Band Pass AV	De-crackle	Modulate	Scale Pitch
Band Reject AV	Delay	Modulation Echo	Scratch
Bass Boost	De-noise	Muffle Echo	Shadow
Blur	Distort	Noise	Smooth
Brighten	Dither noise	Noise Gate	Stereo Echo
Change Pitch/Timestretch	Echo	Normalise	Treble Boost
Chorus	Fast Reverb	Phaser	Tremolo
Clap	Flange	Phase Sweep	Tube
Clean Start-End	High Pass Booster	Pitch Bend	Volume
Clip Distort	High Pass AV	Resample	Wah wah
Compressor	Low Pass Booster	Resonance	

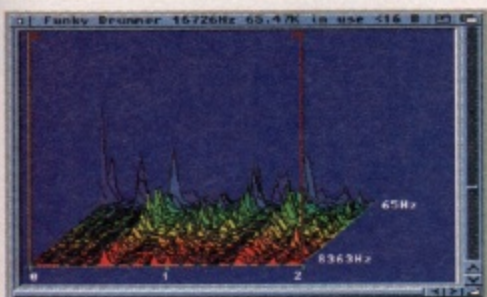
Amaze and amuse your friends...

Most samplers give you a standard two-dimensional graph of the waveform. Combined with good zoom tools to get you right in on precise areas, this is sufficient for most editing requirements. However, Sound Probe also offers an alternative 2D view and a couple of 3D graphs.



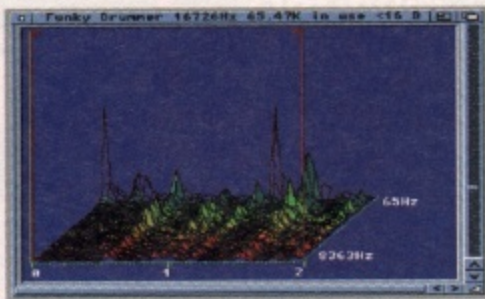
2D frequency graph

With frequencies represented on the vertical axis and time on the horizontal, a range of shades is used to indicate the volume (amplitude) of the various frequencies. This isn't particularly useful in day-to-day editing but it looks quite cool and scientific.



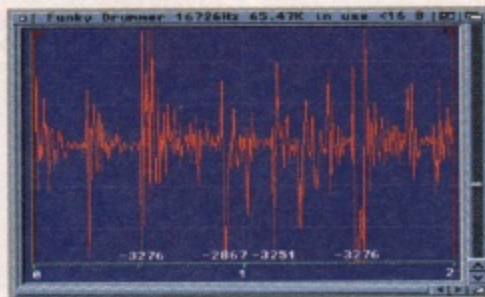
3D frequency graph

Very similar to the other 3D graph, this is also based on the FFT (Fast Fourier Transformation) technique. In future versions of Sound Probe we may see this extended to include visual filtering of specific frequencies. Here's hoping...



3D FFT surface graph

This one shows the amounts of different frequencies in a form that works well as an instant visual reference. The peaks and troughs represent amplitude levels, the horizontal axis is time, and the frequencies are plotted on the Z axis in multi-colours.



Standard 2D waveform

It's fast to use than the others and generally it's all you need. The peaks are enough to indicate where certain parts of your sample begin and end, so it's handy to have this quicker, simpler display when you want to zip around with a few mouse clicks.

drive projects for editing entire songs.

It's odds on that whatever your current sampling software does, Sound Probe does too. It's also likely it will do whatever it is you wished your current package did, plus a whole lot more.

Where to start?

The trouble a poor old software reviewer has when faced with something like this, is where to start. Sound Probe doesn't dictate any working methods and isn't limited to any one application. To give you an idea of what you might choose to do with it, let's take a walk through some possibilities.

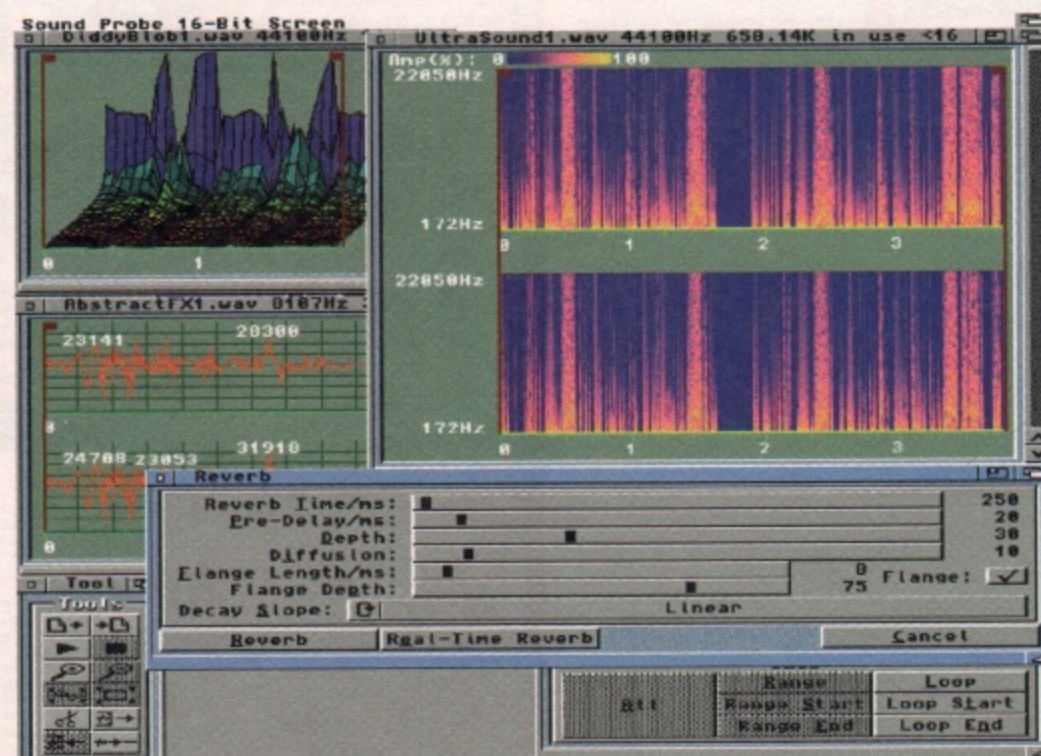
Whatever you're doing, you'll need to get yourself a sound sample to work on. There are two ways of going about this: either load one from disk or create one by making a new recording. Recording a new sample requires you to select your input device from a choice of eight: AHI, Aura, Aura 8, Clarity 16, Generic Parallel, Generic PCMCIA, Megalosound or Megalosound Fast.

In theory the AHI option will allow you to sample from any sound card that has an AHI driver, although it refused to work for me with a Toccat card (although AHI output through Toccat worked fine).

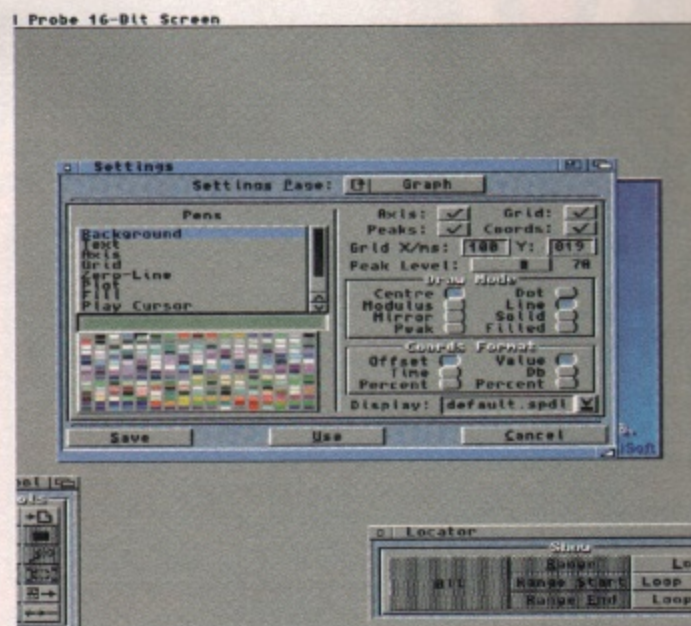
Now that you've got your sample you can

do all kinds of things with it.

First of all you can look at it in one of four main view modes ranging from fast and functional to fancy and colourful. If you've got a particularly large sample you could have recorded it direct to your hard drive.



◀ How would you like your samples displayed Sir? FFT, 2D frequency graph, sunny side up?



Working from hard drive rather than RAM is slower but it opens up lots of exciting possibilities, such as recording and editing entire 16-bit stereo songs.

Taking a lead from the previous 'king of the beats' AudioMaster, Sound Probe lets you create a long sequence from a short sample with the help of multiple loops. This is of limited use but will no doubt come in handy for some. One possible use is for soundtracking a video production using a few bars of backing music. It's easily done and requires no musical skills, apart from the ability to set a few loop markers at appropriate points.

Effects processing

Computer-based sample editors come into their own when you reach the topic of effects processing, and this is one of Sound Probe's strongest features.

Even with the falling cost of studio equipment, it would cost an arm and a leg to assemble a collection of hardware effects processors to perform the range of functions on offer from Sound Probe.

▲ Here's just one of the many Settings windows, which together allow you to alter and customise almost everything about the program.

Open Late
Wednesday & Thursday
9.30am until 7.30pm

Open Sunday
11am to 4pm

FIRST
COMPUTER CENTRE

DELIVERY COSTS

- 2-4 Week Days £5.00
- Next Week Day £7.00
- Saturday Delivery £15.00

Delivery per order, not per item. Subject to availability.

Tel: 0113 231 9444
Fax: 0113 231 9191 BBS: 0113 231 1422
E-Mail: Sales@firstcom.demon.co.uk

Showroom Address:
Dept. CU, Unit 3, Armley Park Court
Stanningley Road, Leeds. LS12 2AE

Please allow five working days for cheque clearance. Prices are correct at the time of going to press. Please check latest prices before ordering. All sales are subject to our standard terms and conditions of sale. Copy available upon request. E&OE. Dated 19/11/97.

Map: EASY ACCESS FROM M62, M1 and A1
M62 M621
M1
A1
LIVERPOOL
LEEDS CITY CENTRE
ARMLEY
STANNINGLEY ROAD
M621

AUTHORISED REPAIR CENTRE

Our in-house engineers can offer you a no-obligation **FREE** estimate of repair on your Amiga or any computer peripheral. A delivery tariff of just £5.00 is charged or alternatively, visit our large showroom. We can also arrange for your items to be collected by courier for an additional charge of £11.00.

Amiga Hardware

Amiga Magic Packs
Includes Wordworth V4SE, Datastore, Organiser, Turbocalc 3.5, Personal Paint V6.4, Photogenix 1.2SE, Pinball Mania, & Whizz. Now also includes Directory Opus 4.12.

- A1200 - 2Mb RAM - No HD £249.00
- A1200 - 6Mb RAM - 170Mb HD £349.00
- A1200 - 68030EC/40MHz 10Mb RAM 170Mb HD £419.00
- A1200 - 68040/25MHz - 18Mb RAM 1.3Gb HD £599.00
- A1200 - 68040/40MHz - 18Mb RAM 1.3Gb HD £699.00

Hard drive equipped versions of the Amiga range come with Scala MM300 preloaded. Amiga 68040 machines include a 250 Watt PSU as standard.

Monitors

AMIGA
1438/1402 14"
Multisync
only
£259.00

MICROVITEC
1701 17"
Multisync
only
£399.00

CD-ROM & I/O

Squirrel SCSI-II Interface *£45.00
*When bought with any SCSI device, £55.00 if bought separately

SurfSquirrel SCSI-II Interface *£79.00
*When bought with any modern or SCSI device, £89.00 if bought separately

Octagon/GVP SCSI Card £99.00
SCSI-II interface card for big box Amiga's A4000/A5000 etc.

The Whippet
High Performance PCMCIA Serial Port
Up to 230,000bps. 400% Faster Than Standard
Fully Buffered For Safer & Reliable Data Transfer
New! Faster Technology 56k Modem Ready!!
Only £49.00 (£45.00 if bought with modem)

Hard Drives

2.5" IDE Hard Drives
Includes installation software, screws, and instructions. For A600/A1200 machines

- 85Mb £58.00 1.0Gb £125.00
- 120Mb £72.00 1.6Gb £142.00
- 524Mb £114.00 2.1Gb £165.00

Build Your Own SCSI Hard Drive!

- SCSI Case with built in PSU £50.00
- SCSI Hard Drive (Select from right)
- SCSI Squirrel Interface £45.00
- Optional Construction £10.00
- Includes all Cables & Software

3.5" Bare Hard Drives

IDE	SCSI
1.0Gb £110.00	540Mb £159.00
1.7Gb £122.00	840Mb £199.00
2.1Gb £135.00	2.1Gb £229.00
2.6Gb £148.00	3.2Gb £263.00
3.2Gb £154.00	4.5Gb £284.00

3.5" IDE Hard Drive Install Kit
Includes set-up software, cables and full instructions. See above for Hard Drive prices
Only £19.00

Software

- Aura 8 Bit Sampler £30.00
- Blitz Basic v2.1 £20.00
- Cinema 4D V3 £160.00
- Clarity 16 £96.00
- Directory Opus 5.6 Magellan £46.00
- DiskMAGIC File & Disk Manager £35.00
- Final Calc £95.00
- G.P.Fax - Generic Class 1&2 £43.00
- Hi-Soft Basic 2 £50.00
- Hi-Speed Pascal £65.00
- IBrowse (Hi-Soft) £25.00
- Maxon Magic £24.00
- MegaloSound £28.00
- Mini Office £30.00
- Money Matters 4 £39.00
- Net & Web (Hi-Soft) £30.00
- Net & Web 2 (Hi-Soft) £60.00
- Net Connect V2 £50.00
- Network PC (Weird Science) £18.00
- Amiga On-Line Reference Manual £7.00
- PCX-66 Emulator £50.00
- Personal Paint 7.0 £50.00
- Power Scan Software £20.00
- Pro Midi Interface £30.00
- Secal Programming £50.00
- Studio 2 Professional £10.00
- SurfWare Internet Software £30.00
- TechnoSound Turbo II Pro £45.00
- Termite TCP (Hi-Soft) £30.00
- Termite (Hi-Soft) £30.00
- TurboCalc 4.0 £50.00
- Turbo Print 5 £50.00
- Twist 2 Relational Database £75.00
- Upper Disk Tools (Hi-Soft) £11.00
- Vista Pro 3 Lite £5.00
- Voyager Internet Software £23.00
- Wordworth 6 3.5" Version £40.00
- Zip/Jazz Tools £17.00

£5.00 off when purchased with a printer

CD-ROM Software

Free Software CD-ROM upon request when you spend £20+ on CD Discs

Price	Price	Price
LSD & 17Bit Comp. Vol 1 £18.00	Emulators Unlimited £17.00	Magic W/Bench Enhancer £9.00
LSD & 17Bit Comp. Vol 2 £18.00	Encounters £13.00	Meeting Pearls 4 £9.00
LSD & 17Bit Comp. Vol 3 £18.00	Encyc. Of The Paranormal £18.00	Miami £28.00
3000 JPEG Textures £9.00	Epic Collection 3 £18.00	Midi Gold £24.00
3D CD 2 Images £9.00	Epic Interactive Enc.1997 £10.00	Midi Anthology £18.00
AGA Experience 2 (NFA) £9.00	Eric Schwartz Animations £17.00	Movie Maker Special FX1 £18.00
AGA Experience 3 (NFA) £13.00	Euro CD Volume 1 £13.00	Multimedia Backdrops £15.00
AGA Toolkit '97 £9.00	Euro CD Volume 2 £13.00	Network 2 £13.00
Amiga Desktop Video 2 £13.00	Flyin' High £24.00	Octamed Sound Studio £20.00
Amiga Developers £13.00	Fontamania £20.00	Personal Suite £18.00
Amiga Repair Kit £35.00	Geek Gadgets 1 or 2 £13.00	Personal Paint 7.1 £23.00
Aminet 18, 19, 20, or 21 £12.00	Graphics Sensations 1 £18.00	Retro Gold £10.00
Aminet Set 1, 2, or 3 £18.00	GIF Sensation Double Cd £18.00	Scene Storm £10.00
Aminet Set 4 or 5 £27.00	Giga Graphics (4CD) £10.00	Sci-Fi Sensation 2 £18.00
AMOS PD 2 £13.00	Global Amiga Experience £15.00	Sound & Graphics £18.00
Amiga Resource Europe £15.00	Golden Demos £15.00	Sounds Terrific/Octamed 6 £18.00
Animation (Weird Science) £9.00	Guinness Disc Of Records £18.00	Speccy '97 £15.00
Anime Babes (18) £16.00	Hidden Truth £24.00	System Booster £18.00
Arctura Classics Plus £13.00	Horror Sensations (18+) £18.00	Time & Reckoning £16.00
Artwork £9.00	Illusions in 3D £9.00	Trapped 2 £20.00
Assassins 2 £11.00	Imagine PD 3D £15.00	UPD Gold £13.00
Assassins 3 £14.00	Insight Dinosaurs £5.00	Urop2 - Ultimate Colony £25.00
Big Red Adventure £18.00	Intro-The-Net £15.00	Utilities Experience £18.00
C64 Sensations Vol.2 £17.00	Kara Collection £10.00	1078 Weird Textures £13.00
CAM (2CD) £22.50	The Learning Curve £18.00	Wordworth 6.0 £40.00
Card Games PC/Amiga £15.00	Light ROM 4 £19.00	Wordworth 6.0 Office £48.00
Colour Library £9.00	Light ROM 5 (3CD) £24.00	Workbench Add-ons £18.00
Dem Rom £13.00	Light ROM Gold £14.00	World Info 95 £18.00
	Magic Publisher £30.00	Zoom 2 £18.00

Part Exchange

Money off your new hardware purchases!
Call for pricing now to part exchange your old items, and get real value for your unwanted monitors, printers, memory, computers, etc.

Second User Bargains Available Now!
Totally refurbished units, with a three month minimum warranty. Call for current costs.

Please note, we do not buy items for cash. Goods can only be exchanged against a more expensive purchase.

Power Units

PRIMA ATOM

HEAVY DUTY PSU

- High Quality 200 Watt PSU
- Colour Co-Ordinated Casing
- 4 Times Standard Power

Now Only £59.00
Standard Amiga PSU £29.00

Memory / Acc.

Prima A1200 4Mb RAM £60.00
Prima A1200 8Mb RAM £75.00
Includes Battery Backed Clock. Add £25.00 For 33MHz Co-Pro

1Mb 30 Pin (1'9) 70ns SIMM £7.00
4Mb 30 Pin (1'9) 70ns SIMM £21.00
4Mb 72 Pin (1'32) 60ns SIMM £15.00
8Mb 72 Pin (2'32) 60ns SIMM £25.00
16Mb 72 Pin (4'32) 60ns SIMM £43.00
32Mb 72 Pin (8'32) 60ns SIMM £96.00
256 x 4 DRAM (DIL Type) (each) £5.00
Prima A500 512k RAM No Clock £17.00
Prima A500+ 1Mb RAM £25.00
Prima A600 1Mb RAM No Clock £25.00

A1200 Accelerator Cards

- Blizzard 1230-50 £90.00
- Blizzard 1260-50 £319.00
- Blizzard SCSI Module £70.00
- 200MHz Impulse Upgrade £CALL
- Viper IV 42MHz With 4MB £79.00

Lower Prices!

Storage

iomega Zip Drive
Only £135.00

- Includes One 100mb Cartridge
- Fast SCSI Interface Version
- Includes Cable & Amiga Zip Tools

Zip Drive 100mb Media (each) £10.00
Squirrel to Zip Adapter £18.00
A SCSI interface may be required at an extra cost. See Squirrel section on this page, above right.

A500/A500+ Internal Drive £35.00
A600/A1200 Internal Drive £35.00
A4000 Internal Drive £80.00
Golden Image External Drive £42.00

WIZARD SATURN
External 3mb Floppy Drive for all Amiga
only £39.00

Graphics

Scanners

- Power Hand Scanner Mono V4. £70.00
- 256 greyscale on AGA Amigas. 64 Greyscale on others.
- Epson GT5000 Flatbed Scanner £260.00
- 2400 DPI Output. 24 Bit Colour. Requires Software Below
- Epson GT8500 Flatbed Scanner £400.00
- 3200 DPI Output. 32 Bit Colour. Requires Software Below
- Amiga Epson Scanning Pack £50.00
- Includes Full Image Scanning Software & Required Cable

Genlocks

- Lola L-1000 Genlock £115.00
- Mix video & graphics with ease, supports AGA as standard
- Lola L-1500 Genlock £175.00
- Composite video out. 2 Sliders, 1 fade to black

Pro-GRAB
24 Bit Colour Realtime Digitiser
Easy Set-Up With Full Software
Only £99.00
Pro-Grab PCMCIA Adapter £40.00

Modems

DIAMOND SupraExpress

SupraExpress 56 Voice

- BABT & CE Approved
- Voice Capabilities
- 56,000 Data
- 14,000 Fax
- 5 Year Warranty

Only £106.00

SupraExpress 36 Voice

- BABT & CE Approved
- Voice Capabilities
- 36,600 Data
- 14,000 Fax
- 5 Year Warranty

Only £62.00

Amiga Surfware Internet Pack
The COMPLETE SOFTWARE SUITE FOR ALL YOUR INTERNET NEEDS. INCLUDES 30 DAYS FREE INTERNET ACCESS, EXCLUDING LOCAL CHARGES
Only £10.00 Just £6.00 with any modem

Miscellaneous

Zydec ZyFi Speakers

ZyFi
40 Watt PMPO
Mains Powered
Only £16.00

ZyFi 2 Pro
120 Watt PMPO
Mains Powered
Only £43.00

ZyFi To Amiga Cable

Chip Upgrades

- 68882 Co-Pro 33MHz PLLC £25.00
- 68882 Co-Pro 50MHz PGA £40.00
- Agnus 2Mb 8375-16 (A500+) £28.00
- CIA 8520 I/O Controller £18.00
- Kickstart 2.04/2.05 ROM Chip £25.00

Miscellaneous

- A520 TV Modulator £30.00
- Amiga Joysticks From... £7.00
- Wizard 560DPI Mouse £18.00
- Quality Mousemat (4mm) £5.00
- 3.5" Floppy Drive Head Cleaner £18.00
- 80 Cap. Banx Lockable Disk Box £18.00

Printers

Canon

- BJC-30 Colour Inkjet £160.00
- 720 x 360 DPI Mono Printer. 30 Page ASF Built-In
- BJC-80 Colour Inkjet £189.00
- 720 x 360 DPI Colour Printer. 30 Page ASF Built-In
- BJC-250 Colour Inkjet £136.00
- 720 x 360 DPI Mono & Col. Carts Supplied. 80 Page ASF
- BJC-4300 Colour Inkjet £186.00
- 720 x 360 DPI. Optional Colour Scanner Cart. 5ppm Mono
- BJC-4550 Colour Inkjet £258.00
- 720 x 360 DPI. Up to A3 Colour Printing. Dual Cart Printing
- BJC-620 Colour Inkjet £222.00
- 720 x 720 DPI. Four Separate Cartridge Colour Printing

EPSON

- Stylus 400 Colour Inkjet £169.00
- 720 x 720 DPI. 4ppm Black, 3ppm Colour. 100 Sheet ASF
- Stylus 600 Colour Inkjet £235.00
- 1440 x 720 DPI. 6ppm Black, 4ppm Colour. 100 Sheet ASF
- Stylus 800 Colour Inkjet £313.00
- 1440 x 720 DPI. 8ppm Black, 7ppm Colour. 100 Sheet ASF

HEWLETT-PACKARD

- HP-340C Portable Colour £180.00
- 600 x 300 DPI Mono, 300 x 300 DPI Colour. 2ppm Mono
- HP-400C Colour £133.00
- 600 x 300 DPI Mono, 300 x 300 DPI Col. Both Carts Inc.
- HP-690C Plus Colour £200.00
- 300 x 300 DPI Colour Printing. Now Even Faster.
- HP-870CXI Colour £256.00
- 600 x 600 DPI Mono, To 8PPM, 600x300 Colour To 4PPM
- HP-6L Mono Laser £279.00
- 600 DPI, 1Mb RAM, 6 Pages Per Minute Printing
- Dual Parallel Printer Switchbox £13.00
- Includes cable. Other types & specifications also available

CITIZEN

- ABC 24 Pin Dot Matrix £110.00
- 300 DPI, 50 ASF Built-In. Optional Tractor Feed at £35.00
- ProJet-IIIC £130.00
- 300 x 300 DPI Colour Inkjet Printing. 70 Sheet ASF Built-In
- Printiva 600C £292.00
- 600 DPI Colour, 1200 DPI Mono. Advance Micro Dry Tech.

Cables

This is only a small selection. Please call.

- 23 Pin To 15 Pin Multisync Adapter £7.00
- 9 Pin Mouse/Joystick Extension £5.00
- Mouse/Joystick Switcher £14.00
- Surge Protector 4 Plug Adap. £15.00
- Parallel Printer Cable 1.8M £5.00
- Parallel Printer Cable 4.5M £12.00
- Parallel Printer Cable 10M £20.00
- Parallel Bi-Di Printer Cable 1.8M £5.00
- Parnet Cable 25 Pin D Type £15.00
- Null Modem Cable 25DF-25DF £10.00
- Modem Cable 25DF-25DM £10.00
- RGB 9 Pin Monitor Cable Extension £15.00
- Multisync Monitor Cable Ext. £11.50
- 1438 23 Pin To 15 Pin D Adap. £10.00
- Amiga To Scart Cable (CM8833 Mk1) £10.00
- 9 Pin Extension Cable 3M £7.00
- Amiga to Philips 8833Mk1 £10.00
- 25D To Centronics Male £12.00
- Centronics Male To Female 1M £15.00
- Centronics Male To Male 1M £15.00
- SCSI 3 Device Internal Cable £14.00
- SCSI 7 Device Internal Cable £17.00
- Micro D Male To Micro D Male £33.00
- Micro D Male To Centronics Male £33.00
- 25D To Centronics Female £18.00
- Internal 50 Way SCSI To External £13.00
- Amiga A600/A1200 2.5" IDE Cable £10.00
- Dual 3.5" IDE Cable £10.00
- A600/A1200 2.5" To 3.5" Cable Set £20.00

Consumables

Canon

- BC01 BJ10/SJ48 Black £17.00
- BC02 BJ200 Black £18.00
- BC05 BJC210 Black £20.00
- BC06K BJC240 Photo Kit £26.00
- BC06 BJC240 Photo Cart £20.00
- BC09F BJC240 Fluores. £26.00
- BC10 BJ30 Heat & Ink £30.00
- BC11 BJ70 Heat & Cart £32.00
- BC20 BJ400 Head&Black £32.00
- BC21 BJ4000 Head & Inks £35.00
- BC22 BJC4200 Photo Cart £27.00
- BC22K BJC4200 Photo Kit £37.00
- BC29F BJC4200 Fluores. £32.00
- BC10 BJ30 Black 3 Pack £11.00
- BC11BK BJ70 Black 3 Pk £9.00
- BC11C BJ70 Colour 3 Pk £15.00
- BC21BK BJC4000 Colour £5.00
- BC12BK BJC4000 Colour £14.00
- BJL20B BJC6x0 Black £5.00
- BJL20C BJC6x0 Cyan £5.00
- BJL20M BJC6x0 Magenta £5.00
- BJL20Y BJC6x0 Yellow £5.00
- BJL642 BJ300/330 Black £11.00

Citizen

- ABC/Swift Mono Ribbon £5.00
- ABC/Swift Colour Ribbon £13.00
- Project IIC Colour Cart. £30.00
- Project IIC Mono Twin Pack £7.00
- Project IIC Mono + Head £22.00
- Printiva Black £6.00
- Printiva Cyan £6.00
- Printiva Magenta £6.00
- Printiva Yellow £6.00
- Printiva Silver £16.00

Epson

- Styl. Col. 400/600 Black £19.00
- Styl. Col. 400/600/800 Col £21.00
- Styl. Col. 800/1520 Black £21.00

Hewlett Packard

- Deskjet 340 Hi-Cap Black £24.00
- Deskjet 5x0 Series Black £24.00
- Deskjet 5x0/340C Colour £26.00
- Deskjet 6x0 Series Black £24.00
- Deskjet 6x0 Series Colour £26.00
- Deskjet 8x0 Series Black £24.00
- Deskjet 8x0 Series Colour £26.00

Paper

- 500 Sheets (Fanfold/Single) £5.00
- 1000 Sheet (Fanfold/Single) £9.00
- 100 Sheets Epson 720dpi £13.00
- 200 Sheet Canon Hi-Res £25.00
- 500 Sheet HP Bright White £11.00

Refills/Re-Inks

- Re-ink Ribbon Spray £10.00
- Black Ink Cart Refill 50ml £8.00
- 3 Colour Ink Refill 75ml £13.00

3.5" Floppy Disks

Bulk DSDD

- 10x £3.50 100x £35.00
- 30x £11.00 200x £35.00
- 50x £15.00 500x £75.00

Branded DSDD

- 10x £5.00 100x £50.00
- 30x £14.00 200x £50.00
- 50x £22.00 500x £75.00

Bulk DSHD

- 10x £4.00 100x £40.00
- 30x £11.00 200x £40.00
- 50x £17.00 500x £75.00

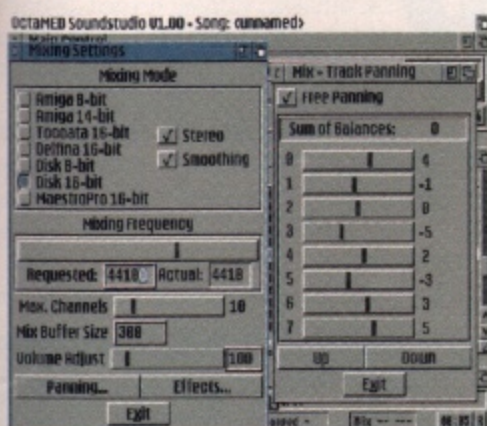
Branded DSHD

- 10x £6.00 100x £60.00
- 30x £16.00 200x £60.00
- 50x £24.00 500x £75.00

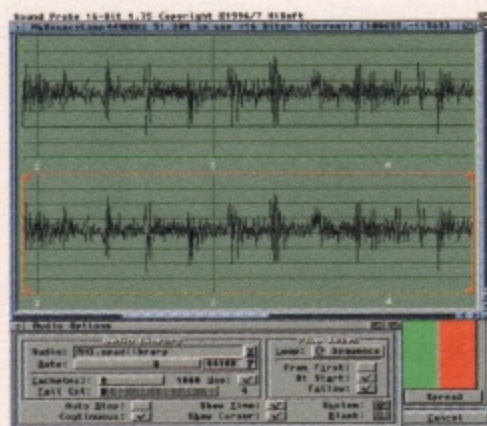
500 Disk Labels
1000 Disk Labels

Four steps to heaven

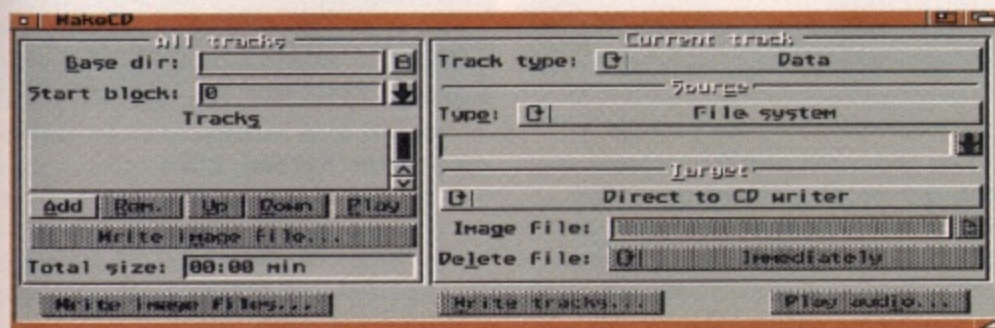
Watch this: we will now demonstrate how you can create a professional quality stereo 16-bit audio CD, complete with all the studio effects you could wish for, with nothing more than one Amiga 1200, a Squirrel CD-R kit, OctaMED SoundStudio and Sound Probe.



1. Using high quality 16 bit samples (as on this month's CD) compose your music with SoundStudio then record to hard drive at 44100Hz stereo (with smoothing).



2. Open the digital audio file in Sound Probe and apply as many effects as you require to chosen sections of the song. Edits can also be made to extend or curtail specific parts.



3. Convert the project to CDDA (CD digital audio) and burn it to a blank CD-R disc with MakeCD or your preferred CD burning software, along with any other tracks you have.



4. Begin by firing up your hi-fi system, open up the CD tray, pop in your brand new gold disc, turn the volume right up to number ten, and then you can sit back and bask in the glory of your perfect production.

So who was it that said you need a DAT recorder then?

Anyone into making dance music will surely have desired a timestretch capability (in which the length of a sample is changed without its original pitch being altered) if only to be able to perform the latest invogue effect. Amazingly Audiomaster IV was the only Amiga sample editor that could do this until Sound Probe, five years later.

Here the idea is taken a little further, with the option of combining timestretching with pitch bending, so you can gradually slow down or speed up a sample and retain its pitch, or do the opposite and slide the pitch whilst retaining the original length. As with all the effects, you can adjust any of the main parameters that control the final sound via sliders.

Generally the effects have been designed foremost to be used on samples in memory,

but many can also be used in realtime to process a signal via your chosen sampler.

The reverb is one of the best you'll have heard from an Amiga sampler. This is one effect that has proven very difficult to pull off convincingly, and while you might have to experiment with some of the settings, you should find it satisfactory for adding fairly realistic ambience to most sounds.

Even though there are more effects on offer than in any rival package, you can never have too many. With that in mind it's good to see that Sound Probe has been designed to be able to accept new 'modules' as and when they become available. This also opens the door to any enterprising programmers to come up with their own.

An official support web site should be up and running by the time you read this which

will act as a centre for any such updates or additions (www.york.ac.uk/~dior100/sprobe.htm).

Stability factors

It wouldn't be fair to reach the end of this review without mentioning the sticky subject of stability. During extensive testing of Sound Probe I suffered quite a few crashes and stumbled across a few bugs.

Fortunately I was in the position of being able to E-mail the author, who was able to diagnose the problems, advise me where necessary and fix up some bugs. The specific bugs I came across needn't worry you, as they've been fixed for the release version, but it does suggest there may be others that will be uncovered as people use the software in different ways on different set-ups.

One of Sound Probe's best features is its ability to work on large samples from hard drive. However, in order to do this the file you're working on must be kept 'open'. If for any reason the software crashes while the file is open the drive partition on which it's stored will be invalidated. That means you'll then have to fix up the partition with Quarterback Tools or a similar utility, which is a high price to pay for a system crash.

This shouldn't be a major problem now it's had a bug fix, but it is worth knowing.

Conclusion

Aside from stability problems (which seem to have been solved) it's hard to fault Sound Probe. It is hard to find your way around at first, partly due to lack of structure in the realms of menus and options, but due mostly to the sheer size and flexibility of the system.

Fortunately the manual is excellent, going into each section of the program in some detail. The modular design means it can only get better in future. It's already way ahead of anything else that's out there, and with any luck we'll see more bits and pieces added from third parties.

Don't forget there's a demo of it on this month's cover CD-ROM. Check the documentation for the limitations and give it a go. I don't think you'll be disappointed. ■

Tony Horgan

SOUND PROBE

Developer: HiSoft

System Requirements:

68020 or higher, Workbench 3, 4Mb RAM, hard drive

Ease of use88%

Pretty good, although it can get a bit messy at times due to the sheer amount of options and windows on offer.

Performance91%

Generally excellent with an enormous range of uses, although stability comes into question.

Value for money94%

It doesn't come cheaper than this, especially for such a professional production. Brilliant value.

OVERALL

The best sampling and editing software by a mile

90%

Picture Manager Professional

■ Price: £39.95 ■ Supplier: Blittersoft ☎ 01908-2614661 <http://www.blittersoft.com>

Are you tired of loading countless images to try and find the one that you're after?

Picture Manager Pro claims to be able to help.

Since the Amiga is very involved in rendering and image processing, it stands to reason that many will amass a large collection of images. Finding the right images and converting them into other formats can be a complete pain. Picture Manager Pro comes to the rescue in a combined thumbnail picture catalog, image conversion and processing package.

On first installing the package, I faced instant crashes. Digging deep in the documentation revealed that it's not possible to have the CGraphX and Picasso 96 RTG libraries installed at the same time. PM Pro will run on any screen either native or RTG driven. The GUI itself has two modes; a windowed mode where the button bank and navigation buttons are in a small window and the picture thumbnails are in another, or a full screen mode where the buttons are fixed to the top of the screen and thumbnails

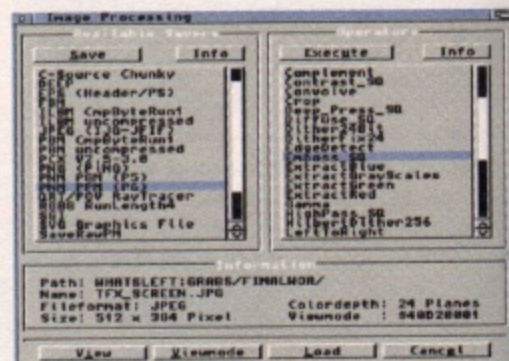
fill up the rest of the entire screen.

Poor icons

The buttons themselves are very poor three colour icons which are difficult to tell on their functions. There's no context sensitive or bubble help either. Given the package is designed to run on high-colour screens, I would have thought a few pens could be spared for better icons. The menu options and GUI also somewhat diverge from expected behavior to reinvent the wheel again.

Whilst that's a pet hate of mine with Amiga applications, it didn't take long to figure out where things were. Selecting new catalog, a GUI appears asking for the catalog type which contains a gadget to set the size of the thumbnails and whether they are monochrome or colour. There's 3 thumbnail choices; 80x64, 120x96 and 144x112. For some reason the catalog name and description are converted to upper case elsewhere.

▼ Thumbnail images give a good impression of the contents of your image drawers.



▲ Some basic image processing options are provided care of the Super View library system.

There seems little point in that. To add pictures to the newly created catalog, one chooses the strangely named 'expand' sub-menu. In here we can select individual files, directories and directories with complete recursion to inner directories.

Sounds good in theory but I can't help thinking the programmer didn't understand how file requestors work. There is no way, for example, to select some files in a directory and then some directories as well. The first thing I wanted to do, in fact. A workaround would be to add those files and then go back and add directories. Erm no, you can't multiselect directories and if you try to add more files, PM Pro complains that the 'logfile' still exists and would you like to overwrite it! Now that's just plain silly.

Move along now...

So, you need to move your images around so that everything you want to catalog is in one directory. Surely you shouldn't have to move your files to suite the cataloging program. After the stage of selecting files, a summary of the image types is displayed.

Rather than list all the supported file formats, it will suffice to say that PM Pro impressively supports every file format I ever heard of and then some. The package will even interface with an installed Ghost Script set-up to support EPS. Ghost Script is not the easiest of packages to use though, I would have liked to have seen EPS built in so clip art could be worked on in much the same way. Then we press expand again and PM Pro closes the screen, strange. A GUI on the Workbench shows the status as every

picture is loaded and a thumbnail created.

Clearly with a lot of pictures this can take a very long time, depending on CPU power of the Amiga concerned. Why didn't PM Pro just leave the screen open and leave the status window on that? Who knows. The progress bars in lengthy operations tend to stop at random positions for some time rather than be a good indication of progress.

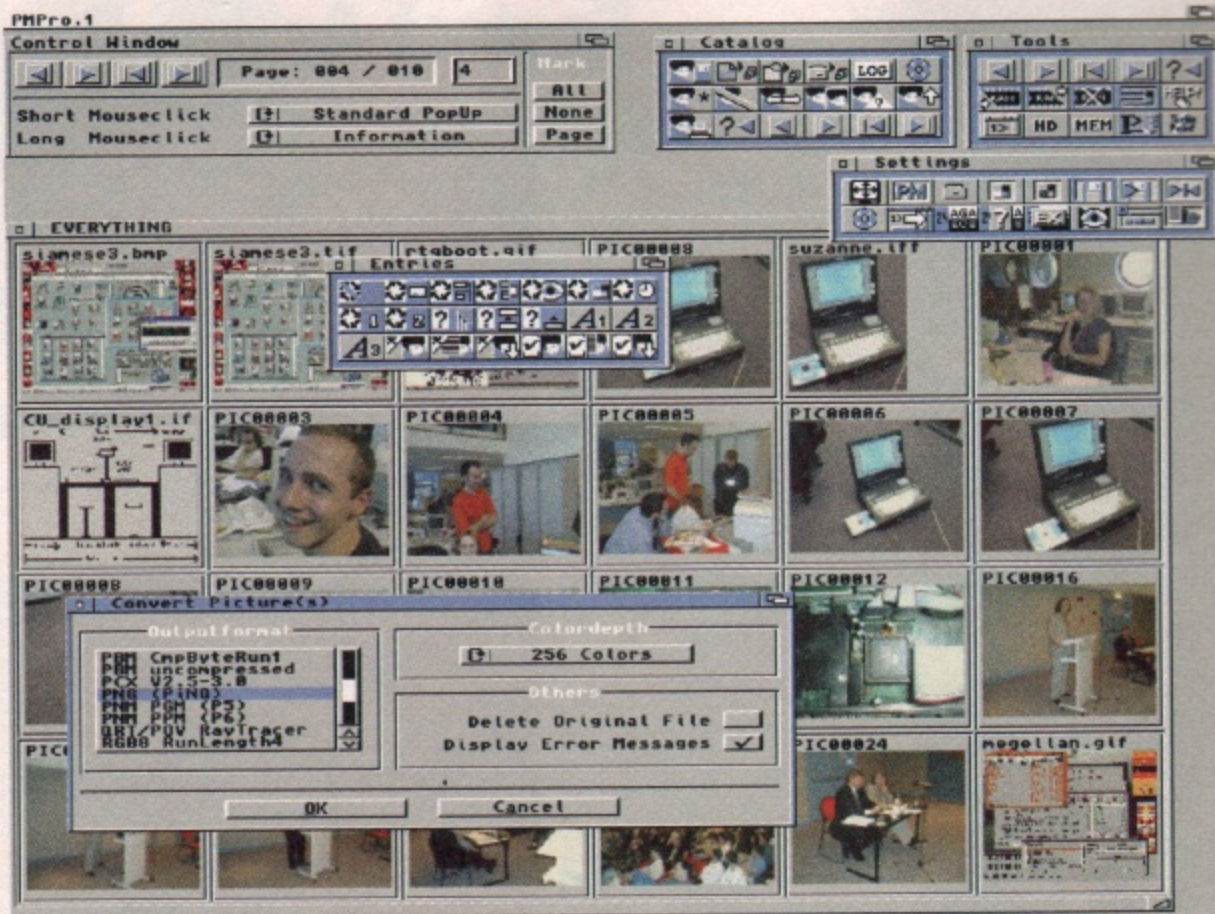
Impressive thumbnails

My grabs directory took about 2 hours to completely scan. After which the screen reopened with all the thumbnails.

One could quickly move between pages of thumbnails and the image quality was appropriately impressive. As part of the reinvented GUI system, short and long clicks on the thumbnails can be configured for different actions. One of which may be a pop up menu system which allows for selecting of: view, remove, delete, mark, process, convert, information print and launching of PPaint or DPaint IV. The latter seem to be hard coded into the software although you select the paths to them. Once the images are in the catalog, they can be sorted by a variety of methods including name, description or usefully, the creation date. It's also possible to get ASCII lists of the images in the catalog of varying degrees of verbosity.

The two disk set comes without a manual and all documentation is in AmigaGuide form. This is accessed from the main GUI via a menu with a long list of entries for each section of the package. Context sensitive help or help bubbles would have been better. Scanning direct from the Scanquix package Scanquix 3 device is supported. Printing directly via Turbo Print is also supported. Each picture can be individually printed or the entire catalog can be. However, there's no control at all on the printable image sizes, borders and captions. The upper case descriptions plague print-outs as well.

The processing menu has a range of operators including some useful dithering options, the usual blur/sharpen convolves and colour alteration/correction functions. There's a complete lack of an undo button though, one has to close the window and



start again to go back to the original image. The image processors are those which come with the Superview image library system. Superview is bundled with PM Pro and installed in the same step.

Slide to it

PM Pro will also create slideshow anims and contains healthy ARexx support along with useful scripts for browsing inside LHA/LZX archives and so on. Ultimately, it's a good picture management system. Support for scanning and printing via the leading commercial packages is great. It supports converting most image type to another and displays well on the leading RTG graphics systems as well as the Amigas native display.

Support for Photo CDs is also included, the thumbnail previews of the PhotoCDs are displayed but the pictures accessed are the full high-resolution versions. When restarting PM Pro, the latest catalog is automatically

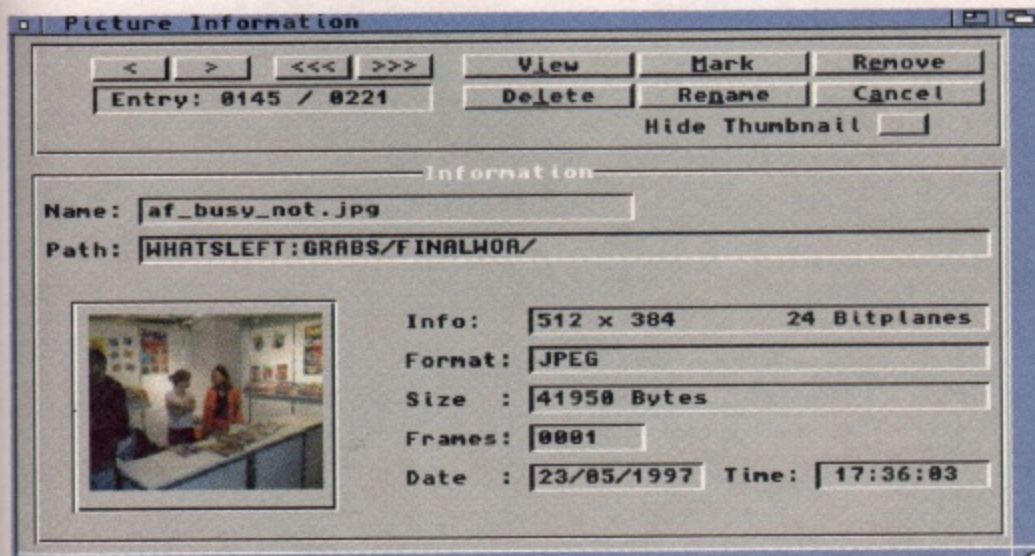
loaded – good for restarting a project. User menus can be configured, then set to appear over images with short/long click qualifiers. That's useful for sending the image to an application of your choice or by performing a step of operations. Those that are provided, result in windows covered in yet more of the nasty icons for use with your own functions.

PM Pro worked well at scanning my hard drive and getting a good indication of what pictures are where and for quickly converting them to other formats. It's not without flaws though, certainly I'd like the interface spruced up and the serious limitations of adding images to the catalogs to be addressed. More flexibility to printing formats would also be desirable.

With ample room for improvement PM Pro is still a solid product – highly useful if you work with a lot of images. The bottom line is try the demo on the cover CD first. ■

Mat Bettinson

▲ In window mode, the thumbnails and navigation buttons are windows instead of being fixed.



▲ A quick right click on a thumbnail and further image information and options are displayed.

PICTURE MANAGER PRO

Developer: J Schaefer

System Requirements:

Workbench 2 or higher, hard drive and 3MB spare RAM.

Ease of use	84%
Slightly illogical working methods and no context sensitive help.	
Performance	88%
Does what it says on the tin, and does it well for the most part.	
Value for money	78%
It should be more polished for this kind of money.	

OVERALL

Solid image management tool needing some polish.

83%

NEW...

POWERUP**AMIGA™ GOES POWERPC™**

POWER UP YOUR AMIGA...

A further dimension is being added to Amigas with our new PowerPC based **BLIZZARD POWER BOARDS** for A1200, A1200 based Tower Systems and A1500/2000 systems along with the new **CYBERSTORM PPC** for A3000/4000 systems. You'll now be able to benefit from performance many times beyond the speed of the fastest 680x0 based boards.

Designed as upgrades for existing systems, Power Boards incorporate innovative dual processor technology where a fast PowerPC RISC processor is combined with a 68k CPU, dynamically sharing memory and system buses. While the original AmigaOS 3.x continues to run on the 68k CPU, supporting existing applications to provide backward compatibility, the PowerPC CPU is backed by comprehensive PPC Libraries which provide the functionality to integrate PowerPC into an Amiga multitasking environment.

Software developers can easily optimise their programs, step by step, porting single tasks to PowerPC code, which then run in parallel with 68k tasks. Leading Amiga software vendors are preparing ported or optimised versions of their software packages already. It is anticipated that a large quantity of software products supporting the PowerPC will be available soon.

Power Boards will be delivered with a comprehensive suite of utilities, including the PPC library, as well as tools for creative users. Among them is a Public Domain GNU C compiler for PowerPC (including sourcecode), many demo programs and utilities with sourcecode. In addition to this software, free developer support is available via FTP site.

Last but not least, a PowerPC optimised version of CyberGraphX V3 with RISC optimised CyberGL/3D plus MPEG functions and libraries is included (along with a special GX driver to support the AGA chipset) with full and comprehensive documentation.

	Blizzard 603e PowerBoard	Blizzard 603e+ PowerBoard	Blizzard 2604 PowerBoard	Cyberstorm PPC
PowerPC CPU	603e	603e	604e	604e
Clock Speed	160-250MHz	160-250MHz	150-200MHz	150-200MHz
Companion CPU	68030	68040/68060	68040/68060	68040/68060
PPC	50MHz	25-50MHz	25-50MHz	25-50MHz
Est. CPU Performance	@ 250MHz	@ 250MHz	@ 200MHz	@ 200MHz
MIPS	Approx. 280*	Approx. 280*	Approx. 350*	Approx. 350*
SpecF95	Approx. 3.5	Approx. 3.5	Approx. 7.1	Approx. 7.1
Memory Option	Max. 128Mb	Max. 128Mb	Max. 128Mb	Max. 128Mb
SIMM Sockets	2	2	4	4
SCSI On Board	Fast SCSI-II	Fast SCSI-II	Ultra Wide	Ultra Wide
Amiga Compatibility	A1200(1)	A1200(1)	A1500/2000	A3000/4000(1)
Est. Availability	DEC '97	DEC '97	Summer '97	Summer '97

Blizzard 603e Power Board - A1200(1)

The new Blizzard 603e Power Board is an inexpensive Power Up Accelerator for A1200 system owners who already have a board with a socketed full 50MHz 68030/MMU processor (these CPUs have a gold finish to the top surface) eg 50MHz Blizzard 1230-II, III, IV or similar. Featuring a 160-250MHz PowerPC 603e RISC CPU, the board has a socket for the 50MHz 68030, expansion capabilities of up to 128Mb high speed memory and built in SCSI-II controller.

Imagine the performance from your A1200 with this low cost board!

Blizzard 603e+ Power Board - A1200(1)

The Blizzard 603e+ Power Board is the highest spec Power Up Accelerator for A1200 systems. Featuring a 250MHz PowerPC 603e RISC CPU, the board has a socket for a companion 68040 or 68060 CPU, expansion capabilities up to 128Mb of high speed memory and built in SCSI-II controller. This board is ideally suited to those owners who already use an accelerator with either a 68040 or 68060 CPU (ie Blizzard 1240trnc or Blizzard 1260 owners or their equivalents).

If you want the BEST from YOUR Amiga A1200 - this is it!

Blizzard 2604 Power Board - A1500/2000

If you own either an A1500 or A2000 you can now take advantage of PowerPC technology with this 604e CPU RISC based board which has a socket for a companion 68040 or 68060 CPU, expansion capabilities up to 128Mb of high speed 64-bit memory, built in Ultra-Wide SCSI controller and a high performance expansion slot for expansions such as the CyberVision PPC. This board is ideal for owners of accelerators with 68040 or 68060 processors such as the Blizzard 2040 or Blizzard 2060 owners (or their equivalents).

Want the BEST from YOUR Amiga A1500/2000? - Look no further!

CyberStorm PPC Board - A3000/4000(1)

CyberStorm PPC is the ultimate accelerator for Amiga 3000(1), 4000(1) and systems with compatible CPU slots, offering blistering 604e performance - more than 10 times faster than any 68k based accelerator on sale today! Available with clock speeds of 150, 180 and 200MHz, the companion socket for the 68k processor accepts either a 68040 or 68060 CPU. The board provides 64-bit wide extremely fast memory expansion using pairs of standard SIMMs, dynamically shared by the two CPUs. Additionally, CyberStorm PPC comes with a DMA driven Wide ULTRA SCSI controller on board offering transfer rates of up to 40Mb/sec for even the most demanding of professional applications. A 32bit high speed expansion connector, with DMA access to the main memory, is also provided for later upgradeability.

The 200MHz version of the CyberStorm PPC provides performance of more than 350 MIPS or approximately 8.1 SPECint95 and 7.1 SPECfp95... breathtaking speed that goes far beyond that offered by most PC systems. In the second half of the year, an advanced graphics board will become available for the CyberStorm PPC expansion slot, providing a subset of the innovative CAIRNHA custom chip. By having a stand alone version of the DLRP (Display List RISC Processor), this board will offer superior display capabilities through higher VRAM-based resolutions, pixel depths and speeds, as well as the potential to begin developing software supporting the functionality of the forthcoming ARBOX system.

PRICING AND AVAILABILITY:

Options with or without 68k CPUs will allow users to fit the CPU from their existing accelerator. Delivery of Power Boards is scheduled for Summer 1997 following finalisation of CE approvals. Call now for full details.

Special prices available to existing BLIZZARD & CYBERSTORM board users.

Blizzard 603e/603e+ Board...	160MHz	200MHz	250MHz
with Empty 030/040/060 Socket	£269.95	£359.95	£429.95
with 68030/50MHz fitted	£302.95	£392.95	£462.95
with 68040/25MHz fitted	£305.95	£395.95	£465.95
with 68040/40MHz fitted	£331.95	£421.95	£491.95
with 68060/50MHz fitted	£466.95	£556.95	£626.95

Cyberstorm PPC 604e Board...	150MHz	180MHz	200MHz
with No Processor	£479.95	£549.95	£629.95
with 68040/25MHz fitted	£519.95	£579.95	£669.95
with 68040/40MHz fitted	£549.95	£609.95	£699.95
with 68060/50MHz fitted	£709.95	£769.95	£859.95

*Quoted performance figures are estimations based on specifications from Motorola/IBM and are relevant to the PowerPC processor only. Prices include VAT @ 17.5%.

Owners of other makes of board or those who don't already have an appropriate CPU - please call for prices.

POWER PC TECHNOLOGY, POWER PC SPEED and POWER PC PERFORMANCE

Harwoods... always the Fastest Amiga Boards and NOW PowerPC Technology for Amigas too!



STILL THE FASTEST, NOW LOWER PRICED, NO ONE ELSE EVEN COMES CLOSE!

BRAND NEW...

CYBERVISION PPC

HIGH END GRAPHICS CARD for...

PowerUP, CyberStorm PPC and Blizzard 2604 PowerBoards

Estimated Availability FEB '98

The CyberVision PPC is a high performance graphics card which can be installed on the expansion slot of the PowerPC 604e based PowerUP Accelerators, the CyberStorm PPC and the Blizzard 2604 Power Board. The use of CyberVision PPC is highly recommended for use with the Blizzard 2604 Power Board to speed access to the ECS Chip Memory or Zorro II based graphics boards found in A1500/2000 Amigas.

Performance of CyberVision PPC benefits from the high data bandwidth achieved by direct connection to the processor bus utilising the graphics direct connector which incredibly speeds up, for example, 3D rendering/display. Breathtaking performance is enhanced not just by the ultra fast processor access into the video memory, but also the internal speed and functionality of the CyberVision PPC.

CyberVision PPC is equipped with the powerful PERMEDIA2 Graphics Controller providing outstanding 3D performance of up to 80 million textured 3D pixels/sec, with hardware accelerated rendering functions such as z-buffering, gouraud shading, fogging, blending and anti-aliasing. As the design of PERMEDIA2 hardware suits OpenGL implementation, its 3D performance can support CyberGL functionality of CyberGraphX V3 Native which is supplied with PowerUp boards. In combination with the high floating point performance of the PowerPC 604e processor, a breathtaking performance in professional 3D applications can be achieved. Additionally, the PERMEDIA2 processor supports functions such as colour space conversion, chroma keying and XY-Scaling which is used by the software MPEG decoding routines of CyberGraphX V3 Native.

- 64bit Wide SGRAM with data throughput of up to 800Mb/sec - allows ultra fast RAMDAC to display up to... 1280 x 1024 in true colour at 85Hz screen refresh rate and... 1600 x 1200 in true colour at 60Hz or high colour at 85Hz.
- 4Mb or 8Mb Display Memory options

CyberVision PPC... 4Mb Display Version

CyberVision PPC... 8Mb Display Version

ECALL FOR LATEST NEWS

ECALL FOR LATEST NEWS

EASY TRAPDOOR INSTALLATION... No modification necessary. Reliable low heat output.

1260 TURBO ACCELERATOR MEMORY BOARD

A1200 TURBO ACCELERATOR and MMU/FP

50MHz 68060 - 0Mb Standard, expandable to 64/192Mb

38.71MIPS with single sided 60/70 Nanosecond SIMM fitted.

Offers Amiga A1200 owners FULL 68060 POWER with a board that simply plugs into the trapdoor slot. Your A1200 will then operate at TWICE or even THREE TIMES THE SPEED of an '040 based upgrade and up to FIVE TIMES THE SPEED of a standard A4000! Available options such as the SCSI-IV Kit and RAM are shared with the Blizzard 1230-IV and 1260.

Blizzard 1260 Turbo 50MHz 68060 and MMU/FP, 0Mb 32bit Fast RAM, exp. to 64/192Mb

£319.95

EASY TRAPDOOR INSTALLATION... No modification necessary. Reliable low heat output.

1230-IV TURBO ACCELERATOR MEMORY BOARD

A1200 TURBO ACCELERATOR and MMU

50MHz 68030 - 0Mb Standard, expandable to 128/256Mb

9.91MIPS with 6Q Nanosecond SIMM fitted.

The highest performing 68030 Accelerator available for your A1200. With its 50MHz 68030 and MMU, the 1230-IV offers BETTER PERFORMANCE at a LOWER PRICE. With a Synchro rating of 9.91 (using a 60 nS SIMM) you can see the 1230-IV is very fast... a performance gain of up to 500% is achieved! Via its Fast Expansion Bus, an optional SCSI-2 Controller module can easily be fitted. An industry standard SIMM socket provides for up to 128Mb of auto-configuring 32bit Fast RAM (up to 256Mb with the SCSI-2 option using its extra SIMM socket).

Blizzard 1230-IV Turbo 50MHz 68030 and MMU, 0Mb 32bit Fast RAM, exp. to 128/256Mb

Fast 60 Nanosecond SIMM RAM Expansions - 32bit, 72pin

Motorola Maths Co-Processor - 68882 PGA type FPU, 50MHz

£89.95

ECALL

£39.95

BLIZZARD SCSI-IV KIT

SCSI-2 MODULE for 1230-IV, 1240trnc & 1260, & ADDITIONAL 128Mb SIMM SOCKET

(Fast SCSI-2 DMA Controller - upto 10Mb/s transfer rates with additional SIMM socket/extra RAM)

Blizzard SCSI-IV Kit

£59.95

1230-IV and 1260 FEATURES

- May be disabled with simple keystroke on boot up - for full games compatibility, even badly programmed/older software
- Battery backed self-recharge Real Time Clock
- High performance expansion with full 32bit wide DMA
- Easy trapdoor installation - no modifications required
- 1230-IV features PGA FPU socket allowing optional 50MHz 68882 FPU

CYBERVISION 64/3D

64-Bit ENGINE A2000/3000/4000 (1 Series) 3D VERSION 24-Bit COLOUR ACCELERATED GRAPHICS CARD.

For all Zorro-3 and Tower System A1200s with Zorro II backplanes. The core of this great board is the VIRGE GRAPHICS CHIP from S3. With 3D capabilities, its able to process complex 3D functions in hardware (eg. shaded & textured surfaces) with Trilinear Filtering and Shading/fogging for super realistic Real Time 3D Rendering. When used with CyberGraphX 3D library, Cybervision 64/3D can even offer a broad range of 3D facilities for any software developer.

CyberVISION 64/3D... 4Mb Version

£139.95

MPEG Decoder - added to the Feature Connector to provide real time MPEG audio and video decoding at full size custom screens or, in Workbench windows (HQ display using 16/24bit modes from CyberGraphX Workbench). Stereo audio output is provided via the supplied dedicated line output jack. Upgrade to a Cybervision 64/3D and MPEG bundle (from previous Cybervision 64i) for a special low price!

£149.95

Monitor Switcher - with integrated scan line doubler. Designed to fit into the Amiga slot, this gives full automatic switchover from the standard Amiga signal to Cybervision 64/3D's output. Both cards may be fitted inside A3000/4000 models leaving three Zorro-II slots free.

£69.95

CYBERSTORM II

AMIGA 68060 ACCELERATOR

Cyberstorm II is an ultra powerful graphics accelerator. When you fit a Cyberstorm II 68060 Accelerator to YOUR A3000, A3000T, A4000 or A4000T you can, for example, render a graphic with Imagine 2.0 software in just 2.4 minutes! Compare that with 10.34 minutes on a standard A4000 '040/25! With no jumpers, both Cyberstorm II models are fully plug and play and, A4000 users even have the option of a SCSI-2 Module if they wish (A3000s already have SCSI built in).

- Up to 128Mb of standard SIMMs can be installed and you can even transfer the 72pin SIMMs from your Amiga A4000 straight onto your new Cyberstorm.
- Optional SCSI-2 Module
- If your budget currently only covers the cost of Cyberstorm II 68040ERC, you can always upgrade later to the full 68060 processor for the extra power!

Cyberstorm II 68060/50 50MHz 68060 - 0Mb, Expandable to 128Mb

LAST FEW AVAILABLE...£389.95

Cyberstorm II SCSI-2 Module

£69.95

Cyberstorm II SIMM RAM Expansions (Please call for a range of SIMM prices)

ECALL

CYBERSTORM III

AMIGA 68060 ACCELERATOR

NEW Cyberstorm III is the latest high end 68060 Accelerator Board for YOUR A3000, A3000T, A4000 or A4000T for system with compatible slot. Features a high performance 68060 processor at 50MHz clock speed, a memory expansion option for up to 128Mb of ultra fast 64bit memory, a Wide-Ultra-SCSI controller on board and an expansion slot for high performance expansions such as the CyberVision PPC.

- Up to 68Mb/sec sustained memory transfer rate - ideal for applications demanding the use of large amounts of data. Memory design of the Cyberstorm III is 50% faster than the Cyberstorm II resulting in real world application performance increases of up to 25%!
- Wide-Ultra-SCSI Controller on board
- Expansion up to 128Mb of ultra fast 64bit memory
- Expansion slot for high performance expansions - eg. CyberVision PPC etc.

Cyberstorm III 68060/50 50MHz 68060 - 0Mb, Expandable to 128Mb

£469.95

Cyberstorm III RAM Expansions (Please call for a range of RAM prices)

ECALL

MOTOROLA MOTIVATED

Blizzard and Cyberstorm products use MOTOROLA 68030 and PowerPC series processors. They run WITHIN the electrical timing specification laid down by Motorola to prevent any possible overheating/reliability problems. So, when you pay for a 50MHz CPU for example, that's exactly what you get... not a 40, 35 or even a 25MHz CPU 'clocked' to 50MHz! Look out for the MOTOROLA MOTIVATED logo - your guarantee of our commitment to quality and reliability - BUREAU of 'clocked' CPU TERC and ERC processors used on selected boards are recycled and vigorously tested 68040 CPUs operating at 40MHz - an excellent guarantee and competitively priced alternative.

What the Magazines think...

Blizzard products have consistently achieved the highest magazine accolades and awards! Amiga Shopper "...1260 is destined to become the ultimate object of desire for A1200 owners". - 91% STAR BUY Award Amiga Computing "...If you want the fastest Amiga in the World, get this board!". - 92% BLUE CHIP Rating Amiga Format "...Ride on the fastest A1200 in the World...". - 95% GOLD Rating

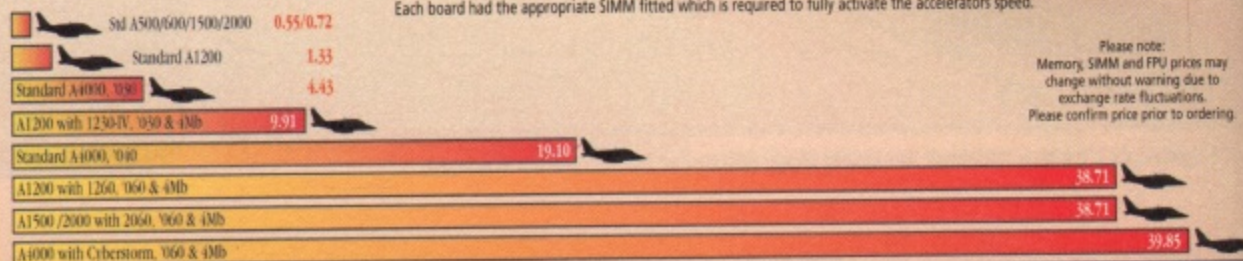


OUR RANGE HAS WON MORE AWARDS THAN ANY OTHER

JUST COMPARE THE PERFORMANCE FIGURES FOR YOURSELF!

Comparative MIPS performance figures measured using Sysinfo.

Each board had the appropriate SIMM fitted which is required to fully activate the accelerators speed.



Please note: Memory, SIMM and FPU prices may change without warning due to exchange rate fluctuations. Please confirm price prior to ordering.

THE PERFORMANCE OF OUR NEW POWER UP BOARDS WITH POWER PC PROCESSORS!

COMPATIBLE WITH
ANY STANDARD VIDEO
SIGNAL AND S-VHS!

ProGRABTM 24RT Plus

NEW LOWER PRICES!

The revolutionary S-VHS ProGrabTM 24RT Plus with Teletext is not only the best way to get crisp colour video images into your Amiga, from either live broadcasts or taped recordings, it also costs less than any of its rivals. This real time PAL/SECAM/NTSC * 24-Bit colour frame grabber/digitiser has slashed the price of image grabbing on the Amiga and, at the same time, has received rave reviews for its ease of use and excellent quality results. ProGrabTM has earned honours from just about every Amiga magazine and Video magazines too! And... with ProGrabTM you needn't be an expert in Amiga Video Technology, a simple 3 stage operation ensures the right results. **Real Time, after time.**

STAGE 1

Select any video source with S-VHS or composite output. This could be your camcorder, TV with SCART output, satellite receiver, domestic VCR/player or standard TV signal passing through your VCR/player... the choice is yours.

STAGE 2

With ProGrab's software, select an image you wish to capture using the on screen preview window and Grab (because the hardware grabs frames in real time, there's no need for a freeze frame facility on the source device). Once grabbed, simply download and view the full image on your Amiga screen. ProGrab also includes a Teletext viewing and capturing facility from either TV or satellite sources.

STAGE 3

Use the 'grabbed' image with your favourite word processor, DTP or graphics package. ProGrab really does make it that simple!



Take a signal from TV with SCART output.

Use either Satellite signals or VCR output of TV or Video, including S-VHS



Grab images with your Camcorder including S-VHS

ProGrabTM 24RT Plus...

- Supports all recent Amigas and is also fully AGA Chipset compatible. You can render images in any Workbench screen mode resolution including HAMB mode (Amiga RAM permitting).
- Saves and Loads images in IFF/ILBM, IFF/ILBM24, JPEG, BMP, PCX, and TARGA file formats. ProGrab saves animations as Anim5 files and animations with sound (requires PCMCIA interface and separate sound sampler) as Anim5 + 8SVX files. A range of image processing effects, palette computing routines (AGA only) and dithering methods are featured in ProGrab Version 2.6.x. Photogenics fully supports ProGrab with a custom 'Loader' to enable grabs directly from within the program - this direct input method will save YOU more time when handling large images.
- Software has built in mono and colour animation facilities. Number of frames is dependant on Amiga RAM.
- Release 2.6.x software now includes... Additional Teletext Facilities - with either terrestrial or satellite TV signals. Larger Preview Window - double resolution and four times area of previous ProGrab software. International Support - now compatible with composite PAL, SECAM and NTSC - straight from the box. Larger Preview Window - double resolution and four times area of previous ProGrab software.

ProGrabTM 24RT Plus costs just £99.95 **LOWER PRICE!** and is supplied with just about everything you'll need...

- ProGrabTM 24RT Plus Digitiser
- Latest ProGrab Version 2.6.x Software
- Mains Power Supply Unit
- Parallel Port Connecting Cable
- User Manual
- Input sockets for Composite and S-VHS.

- A video source cable will be required to match your own equipment - ask us for details.
- Standard ProGrab hardware is PAL/SECAM/NTSC compatible. Interface mode options are available with PAL & SECAM only.

ProGrab supports any Amiga with Kickstart 2.04 or later and a minimum of 1.5Mb free RAM.

PCMCIA Interface - A600/1200

ProGrab's optional PCMCIA Interface includes the latest version software and extends performance for serious or professional users - offering the following benefits...

- Faster downloading times (up to FIVE times quicker)
- Improved animation speeds of up to 11fps (mono) and 3.5fps (colour)
- Saving of animations direct to your Amiga's hard drive
- Freeing of your Amiga's parallel port for use by a printer or other peripheral
- Sound sampling and animation capabilities (separate sound sampler required, see right)

PCMCIA Interface **LOWER PRICE! £29.95**

Stereo Sound Sampler

Fantastic high quality 8-Bit Sound Sampler specifically designed for use with the ProGrab 24RT digitiser (PCMCIA Interface is also required).



This Hi-Fi sampler features the same 30MHz A/D converter used in the ProGrab, maximum frequency is therefore only limited by your Amiga hardware.

Featuring a band width of 40kHz to 20kHz, quality is higher than standard samplers.

Hi-Fi Stereo Sampler **£24.95**

ProTelTM Terrestrial/Satellite Teletext Decoders

Amiga or PC add ons for grabbing terrestrial or satellite TV Teletext pages which don't need a dedicated Teletext TV/Video to operate... required signal is simply the output taken from a standard VCR or a TV that provides a suitable video out signal. Once information has been downloaded, ProTel allows you to view pages instantly... no more waiting whilst your TV searches!

ProTelTM for Amiga Stand alone unit designed to match your Amiga allowing files to be exported as ASCII Text for use in your word processor or saved as IFF graphics for DTP presentations.

ProTelTM Amiga Teletext Decoder **£44.95**

ProTelTM for PC ProTel PC Teletext Decoder - internal ISA PC card - **NEW**

- Friendly software
- Capture speeds of 1000 pages in 2 mins
- Background tasking - Easy configuration
- Save page files (ASCII, BMP, ProTel formats)
- Native 32Bit Windows 95 application
- Requires 386DX PC and 8Mb RAM (12Mb Rec.), Windows 95/3.1 or Workgroup 3.11, VGA display, Mouse and 1 free 8/16Bit ISA slot - MINIMUM
- PAL and SECAM

ProTelTM PC Teletext Decoder **£29.95**

camcorder

Camcorder User commented... "If you're looking for a high resolution 24 bit digitiser then, at this price, ProGrab 24RT represents great value for money."

ProGrabTM - Voted as The Best Video Hardware product for the Amiga. Especially pleasing because the award comes from Amiga Shopper magazine's readers. Satisfied Customers!

ProGrabTM - Amiga Format 93% Gold Rating and comments like... "ProGrab 24RT Plus is quite simply the digitiser to get", "Incredible value for money - no other digitiser offers so much for so little" and "Offers far more features than any other digitiser near the same price"

ProGrabTM - Amiga Shopper 95% STAR Buy and remarks like... "Sharp, crisp and faithful to the original colours, we were mighty impressed" and... "Highly recommended. Whether you are a Videographer or a Graphic Artist, look to the ProGrab 24RT Plus. It's a winner!"

Hi-Fi Stereo Sampler - Amiga Shopper 92% STAR Buy, April 1997.

CU Amiga said ProGrabTM is... "Just the job for beginners and semi-professionals on a tight budget" and... "very hard to beat. For the money, nothing can touch it."

AMIGA

AT GH WE MAKE EVERYTHING EASY...

PHONE GH... We welcome all major credit/debit cards with NO TRANSACTION SURCHARGES.

ORDERING BY POST OR FAX...

Please include your Name, Address and preferably daytime and/or evening phone or fax number with your requirements. If using your debit/credit card include its number and valid from/expiry dates (also issue number with Switch cards). Please make cheques (allow 7 days clearance), Drafts or P.O.s payable to... Gordon Harwood Computers Limited.

GH PRICES...

All UK and EC customers - VAT is included at the standard rate of 17.5% to all prices. UK overseas Armed Forces Personnel may be exempt VAT - please ask for details.

DELIVERY...

We offer prompt shipment with fully insured express delivery options throughout the UK, Europe and Worldwide at a modest cost. If ordering by mail, please call to confirm the appropriate delivery charges.

GH WARRANTY...

Manufacturers' standard warranties apply or, ask about GH's comprehensive extended options which are always recommended for professional users to minimise costly down time - details available on request.

ALL PRICES INCLUDE VAT

...and are shown for personal users only. Business users please ask for VAT Exclusive prices.



If you prefer, you can collect your Amiga goods from us...

AN EASY DRIVE FROM MOST AREAS,

We're open Monday to Saturday 9.00am until 5.00pm...

PLEASE CALL TO CONFIRM AVAILABILITY BEFORE MAKING A LONG JOURNEY TO VISIT US.

THE APPLE ALTERNATIVE

IF YOU'VE REALLY GOT TO BUY A NEW SYSTEM TODAY... the next best thing to your Amiga could be an Apple Macintosh.

BUT WHY MACINTOSH?

- Just like your Amiga, all Macs are Motorola based but have had the advantage of PowerPC RISC CPUs for some time... remember, even Pentium PCs in WindowsTM systems are still merely CISC processors!
- Like the Amiga, Macs were designed from the outset to be an easy to use system with their windowing environment fully integrated - not bolted on later. And... Macs not only outperform other PC systems, but have recently become very competitively priced too.
- Software: there are over 1800 titles specifically written for PowerPC Macs alone, plus 1000s from pre PowerPC days which are still compatible. Industry standards such as Word, PageStream, Word Perfect, FileMaker Pro, Excel, Quark XPress, Photoshop and many others have been developed for Macs.
- Creativity: Apple still lead the creative world - With 80% market share in colour publishing, most web sites being authored with Macs and post production video editing dominated by the Macintosh - you can see the advantage. The magazine you are reading now was published using Macs!
- Internet and Communications: all Macs are Internet Ready - many include built in modems and fax facilities etc. Standards like Netscape & Internet Explorer mean the Net is easily accessed.
- Connectivity and Expandability: all Macs have built in networking and external SCSI connections - adding printers, drives, cameras, scanners etc. really is plug & play!
- Education and Edutainment: Macs offer you the advantage of all the latest software from the likes of Dorling Kindersley, Microsoft etc. to help with the whole family's learning skills.
- Multimedia: Apple is the World's Number 1 Multimedia PC Vendor!
- Recreation and Games: Some of the top selling games are available on the Macintosh these include: Ultimate Doom, MYST, Dark Forces, Rebel Assault II, Descent, Full Throttle and many more!

WANT ONE?

Well, if you really want more performance without paying the earth - and you want it now... contact Harwoods - it may be easier than you think, especially with our finance facilities catering for both business and personal users (subject to status).

Why not call and see a range of Apple Products as well as an extensive range of peripherals, accessories and software - our staff will be pleased to assist in your enquiries about Macintosh systems.

Apple Authorised Reseller & Service Provider



harwood



GH 15TH ANNIVERSARY
1982-1997

We've been providing Commodore products since 1982 and today supply a range of 100% Motorola based systems including Blizzard and Cyberstorm along with video products and other peripherals...

01773 836781

PICK UP THE PHONE AND ORDER TODAY FOR DELIVERY TOMORROW



For your protection all Cards are fully Security Checked

OFFICIAL ORDERS...

We supply Central, Local Government and Education Departments along with Major PLCs

'FAST-FAX'...

on 01773 831040 for a Rapid Response to your Quotation or Order Requirements!

GH
GORDON HARWOOD
COMPUTERS

DEPT CUA/7 • NEW STREET
ALFRETON • DERBYSHIRE
DE55 7BP

Tel: 01773 836781

FAX: 01773 831040

e-mail: info@ghc.co.uk

THE PERFORMANCE OF OUR NEW POWER UP BOARDS WITH POWER PC PROCESSORS!

Apollo 630

■ Price: £99.95 ■ Supplier: Eyetech Group Ltd. ☎ +44 (0)1642 713185

This new accelerator for the A600 sports a 68030 running at 33MHz with a full MMU, an FPU and a SIMM slot for the addition of up to 32Mb of RAM.

► A neat, well put together board which actually stays in place. What more could you want?

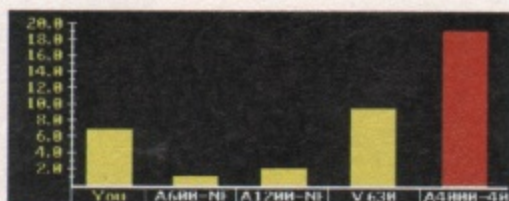
The A600 was a machine that was never meant to be expanded very much, and thus there is no provision on the motherboard for an accelerator. The A500 had an expansion bus which allowed accelerator connection. More recent models have a specific accelerator slot. There are other ways to skin a cat, however, as the Viper520 last month showed.

The A500 had a Motorola 68000 CPU in a standard DIL socket. Installing the A520 involves pulling the chip out of the socket and slotting the pins on the bottom of the accelerator into it, replacing pin for pin the functioning of the 68000 with the much faster board. Even this technique is out with the A600, which used a much smaller surface mounted version of the 68000. The only way anyone has found to slot into the motherboard is to clip a PLCC socket, inverted, over the 68000 chip. The socket is connected to the board with the new CPU on it.

Throw a Wobbly

The problem with this approach is that you end up balancing a circuit board on a small socket jammed onto a slim-line chip. Users of the old Apollo 620 found this to be a major problem, with the board frequently overbalancing and slipping off the chip.

The Viper clipped on more efficiently and was shaped to better lodge onto the board, but it was still not perfect. Eyetech have employed their famous velcro to make sure this card suffers none of these problems. A few stickdown pads and stand off spacers



▲ This AIBB Dhrystone test compares this board with a basic A600, a basic A1200, a viper 630 and an A4000/40. 1=A600 performance.



give this board the extra support pillars it needs. A small capacitor right next to the CPU requires a corner of the socket to be shaved, and in installing I found it necessary to shave a little bit more, but this is an easy task with a sharp knife. It is a fairly ugly solution to look at, but once you've closed the box, the only thing you'll notice about Eyetech's solution is that it works. While you are not advised to turn your A600 upside down and shake it about, there is no doubt that this card offers a lot more physical stability than the others.

The 68030 on the board we were sent had the advised clock speed scratched off, which makes you wonder, but in operation there were no problems at all. Functionally this is very like a standard A1200 accelerator card. It goes fast - a good few times faster than an unaccelerated A600 anyway, if not up to the level of the average expanded A1200. The FPU maths co-processor means that rendering and fractal software, for instance, will speed up very significantly.

In a real advantage over its rival the Viper 630, it bears a SIMM socket. SIMMs are very cheap right now - it would cost you only around £60 to buy yourself the 32Mb maximum this board can take. In comparison the Viper's memory cannot be expanded; they are sold with either 4 or 8 Mb fixed.

For You?

The big question is whether it is worth paying out a hundred quid for your A600. For that kind of money an A1200 can be bought second hand, and a comparable accelerator for that would set you back another £80 new. Certainly just getting yourself the Apollo 630 would be cheaper, but the other option gets you a new computer with AGA and a lot

more expansion potential. If you are thinking that you don't want to bother buying a new computer until a new model of Amiga is released, but need some more power, then this becomes a tempting choice. If you keep your A600 because it is small, and you only need to run your word processor faster when you have a few fonts on the screen, then again it is tempting, but for many it would make more sense to keep the cash and upgrade later. Assuming you have decided you want to spend some cash on souping up your A600, the choice becomes somewhat more straightforward.

The Apollo 630 and the Viper 630 have little to choose between them on price, the choice comes down to the hardware. If you want that little extra speed, the Viper is the faster card. If the ability to expand beyond 8Mb and the security of a more physically stable card is important, this card is for you. It'll make your machine fly compared to an unexpanded A600 - Suzanne, the portable Amiga made by Simon Archer and detailed in our October issue, would love this card. ■

Andrew Korn

APOLLO 630

Developer: ACT

System Requirements:

A600

Ease of use	84%
Rather fiddly to fit, but instructions are very good.	
Performance	90%
Seven times faster than an standard A600, and takes 32Mb.	
Value for money	85%
Fair price for what you get, but more expensive than its main rival.	

OVERALL

A good piece of kit with real advantages.

88

Siamese

S Y S T E M S

Siamese PC for A1200 only £799.95 inc Vat

**The Ultimate A1200
Upgrade from**



Will run with Amiga 2000/3000/4000 with Kick/WB3+ but needs Zorro bus Ethernet upgrade £49.95
Amiga needs hard drive and 4mb ram.



A1200, monitor, camera and Lisa not included.
Case design is different.

Siamese PC with RTG v2.1 features !!

- Use PC graphics card as an **Amiga RTG graphics** display. Each Intuition friendly program opens in a separate PC Window upto 256 colours & 1024 x 768 (higher with 4mb graphics upgrade). You can also have **24 bit backdrops & Video** on workbench.
- Siamese RTG uses Zero Amiga ram for display in any resolution.
- Amiga can use the **16bit CD quality sound** card in the PC, including Wave sound generator.
- High Speed PCMCIA Ethernet** card, using TCP/IP to transfer Files, graphics, sound, user input etc.
- Use cheap PC drives** from the Amiga including CDrom, Hard Disk, HDD floppies, Removable drives, Tape streamers at very high speed.
- Use any modem (optional) through TCP/IP, use IBrowse, Netscape 4, AmiFTP, AmiIRC all at the same time and through one Internet connection.
- Runs all Windows/Dos programs and games at 166mhz processor speed, no slow emulation.
- Use low cost **MJpeg cards** to enhance your Amiga multimedia abilities, from £150.00 for VHS quality video record/playback. SVHS versions from £500.
- Perfect for **Video producers** moving from Amiga based Analogue to Digital production methods.

**All this for only £799.95
inc Vat, ex P&P**



Siamese PC's include the following components....
Cyril 166mhz processor, 512k cache motherboard, 16mb EDO ram, 1.7gb drive, 1.44mb Floppy drive, 16bit sound card, 4mb s3d 64bit PCI graphics card, Keyboard, Mouse, Windows 95, CE approved Mini Tower case. Amiga components:- Hydra pcmcia ethernet card, Siamese v2.1 Software (no switcher),

**Siamese upgrade packs . . .
. . . for Amiga / PC owners.**

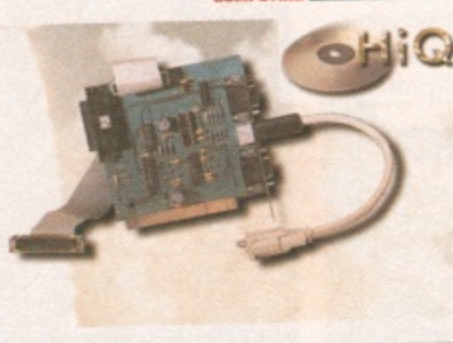
Call for configuration upgrade options



!! Software only v2.1 !!

Supports optional High speed Ethernet network.
"the difference to the SiameseRTG was astounding"
Mat Bettinson CU Amiga

Launch special only £99.95



Siamese Video Switcher
Original Switcher card and cable kit for use with the Siamese PC pack above and Siamese RTG v2.1 software only pack.

£99.95

includes Siamese v1.5 software.

Still not convinced, then take the Video Challenge.
Buy the Siamese Video or Siamese MPeg CD for £5 inc P&P. Then if you want to buy the Siamese system we will refund double the CD / Video price from your Siamese order.
Don't wait, buy it TODAY !



Siamese / Hydra Ethernet Card A1200 (pcmcia) - £149.95, A2/3/4000 - £169.95

Designed and manufactured by HiQ Limited software by Paul Nolan. email steve@hiqltd.demon.co.uk
9 Church Lane, Hockliffe, Bedfordshire, LU7 9NQ, UK. www.siamese.co.uk
tel 01525 211327, fax 01525 211328 No surcharge for Credit cards.



88%

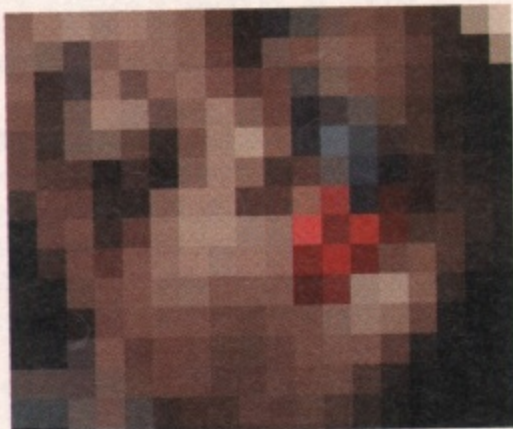
Wildfire 5 PPC

■ Price: 299DM (Amiga) 399DM (PPC) Approx £120, £160 ■ Supplier: Oberland Computer, Germany

■ ☎ +49 (0) 6173 6080 ■ E-mail: info@oberland.com

All of a sudden PowerPC is a reality and Wildfire is one of the first applications to be released to take advantage of it.

► Many of the effects and transitions don't come across well in stills. Here's one that does but there are plenty more dynamic alternatives.



You know the old adage that goes something like "hardware is only as good as the software that runs on it"? That's going to ring true for phase 5's new PowerPC-based PowerUP accelerators. As you might expect, the march is being lead by graphics software – applications that stand to gain significantly from the enormous increase in CPU power. Wildfire is a prime candidate, and this, the first commercial release of the package, supports both 680x0 and PowerPC Amigas.

Demos

Wildfire has emerged from the demo and shareware scene into the commercial sector. You may remember a couple of stunning demo animations we featured on our April 96 and November 1996 issue CDs (Dataworld and Wild Summer). These were both edited to their final states from pre-ren-

dered animations using early versions of Wildfire.

There's nothing quite like Wildfire, but if you could imagine a combination of Adorage and Main Actor, with a dash of ImageFX you'll have some idea of what's on offer. Like Adorage with its SSA (Super Smooth Animation) format, Wildfire also has its own special animation format called YAFA (there seems to be no explanation about what it stands for). It's a kind of IFF anim format but has additional features such as variable rates of compression to allow for playback speed to be traded off with storage size.

Unlike SSA which can only be output through the Amiga's internal graphics hard-

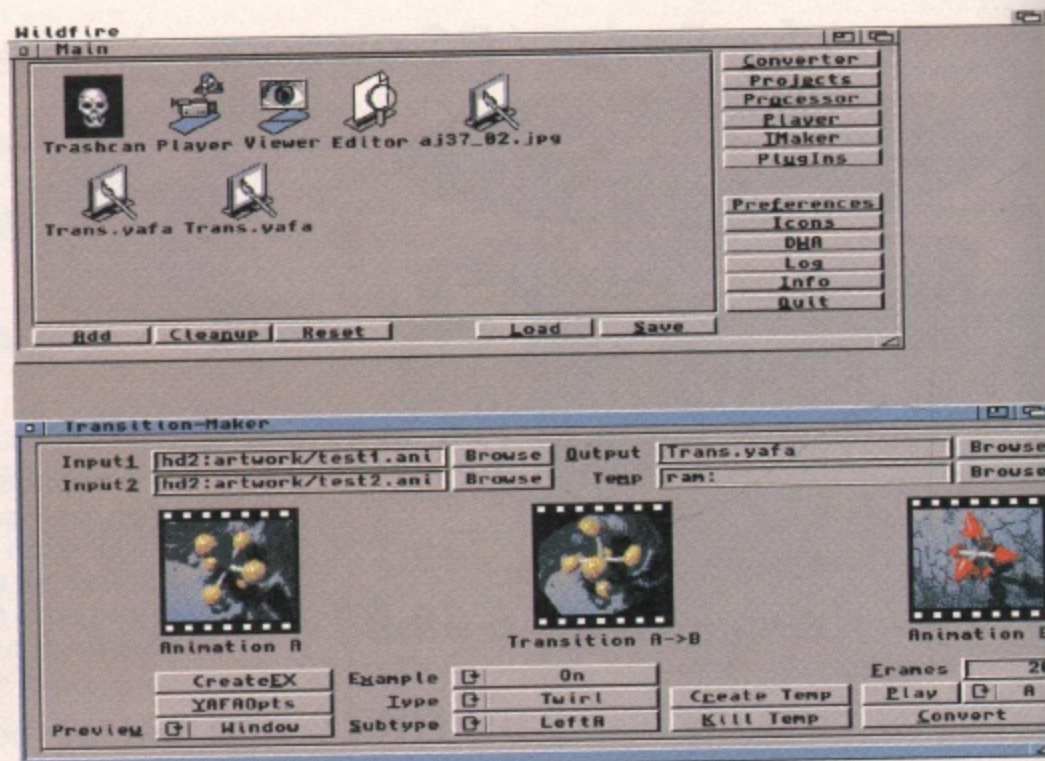
ware, YAFA anims can be used with CybergraphX systems too. The YAFA animation format is optional so if you don't like it you can simply ignore it.

Learning to walk

Your first steps with Wildfire are likely to lead you round in circles. Whenever I first try out a new software package, instinct always ushers me to the Open selection of the Project menu, but Wildfire has no pulldown menus at all. This in itself can be quite disorientating – where do you start? The reason given for the lack of menus is that a) the AGA chipset is too slow to display them in high colour screen modes (I) and b) there's



▲ One of the features of the YAFA animation format is its ability to replay at double size to allow full screen movies with low storage overheads.



▲ The Transition Maker gives a realtime example of each wipe with the aid of animated thumbnails.

PowerPC support

When run on a PowerPC Amiga (a Cyberstorm PPC 604 in this test) it shifts through its effects processing at quite a speed. Single frames are warped instantly, while sequences zip through the system with no thumb-twiddling required. It's a different story on a slower Amiga though. A Cyberstorm 060 takes care of things quite acceptably, but an FPU is almost essential and a 50MHz 030 is bare minimum if you've got any kind of reasonably large projects to deal with.

just too much in the program to be able to fit it all neatly into menus.

I'm not convinced. You could use Wildfire on a fairly low colour AGA screen (say 16) in Multiscan mode and it would be quite useable (you can always switch to a different screen to view your high colour results). That would allow for the use of menus and keep everything a lot tidier.

It comes on a CD (no English manual as yet) with just AmigaGuide documentation. Fortunately the CD is also loaded with plenty of examples and some impressive YAFA animations. Read the documentation enough times and you'll eventually find out how to load a picture or an animation, then apply some effects to it.

Wildfire is by no means the worst offender I've come across – at least it uses standard windows, requesters, sliders and cycle gadgets. It's just that it all seems a bit haywire. No doubt once you know where everything is it'll all come as second nature.

Animations

Enough of the interface. Let's talk about what it can do. Primarily it's an animation editing system. That's not to say it creates animations from scratch (although it's good at stringing together stills into a sequence). The lavish 3D of those Wild Summer and Data World demos was not the work of Wildfire, but Wildfire handled all the fades where one scene merges into another, the screen gets wrapped onto a spinning cube and all that kind of stuff. Wildfire also converted them to YAFA format.

One of the best and more easily fathomed features is the Transition Maker. This takes two previously created animations (anim or YAFA type) or two stills and makes a new (YAFA only) animation by fading from the first to the second in one of a variety of ways. For each type of transition there's a thumbnail example animation which can be

viewed as you cycle through the list. You can set the amount of frames for the transition and that's about all you need to do. It's a shame it's limited to outputting YAFAs only, but you can always convert them to standard anims if required using the Converter section.

Processing

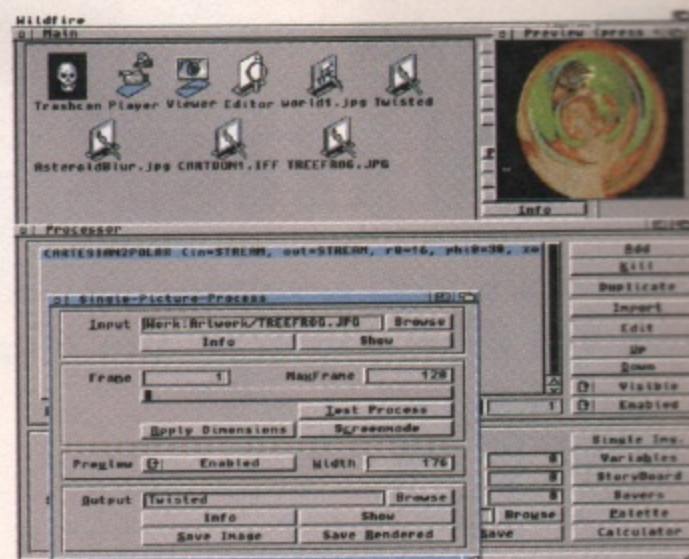
The more unique aspects of the program come to light in the Processor department. This is where all those fancy 3D mapping effects are made. Some of the effects require something in the buffer to act as a kind of alpha channel, while others will work with just a single animation or picture.

You can have an optional preview of the effect in a window on the main working screen or just dive straight in and process your full project. Most of the effects have quite a few variables that can be adjusted using sliders and cycle gadgets. Some of the best can turn pictures and animations into waving flags, spinning cuboids and circular sine wave ripples.

Presentation

While this is undoubtedly a very powerful and indeed unique piece of software, it looks like something that's evolved from a tool that wasn't initially designed for public consumption. What goes on behind the scenes is clever and has many uses, so it's a shame the presentation isn't a lot better. There are times when it can be infuriating, such as when you click on a button and nothing happens – it doesn't do what you want it to do, but neither does it tell you why it's not responding. It's also got a few bugs and crashes intermittently.

I don't want to go on a user-interface crusade, but user-friendliness is just as important as features. Let's say you were in the market for a fast new luxury sports car with all the latest gizmos. You get into the driving



▲ This is the Processor section, in which Wildfire resembles an image processor along the lines of ImageFX, except that it can handle animations as standard from the main program. This is one of more CPU-intensive parts in which the PowerPC code really makes a big difference.

seat and instead of the usual arrangement of gear stick, pedals, steering wheel and indicator/wiper switches, you're presented with something that looks like the cockpit of the Space Shuttle. Hardly ideal is it?

Why not take that Jaguar XJS instead? That's got everything at your fingertips and a normal gear shift.

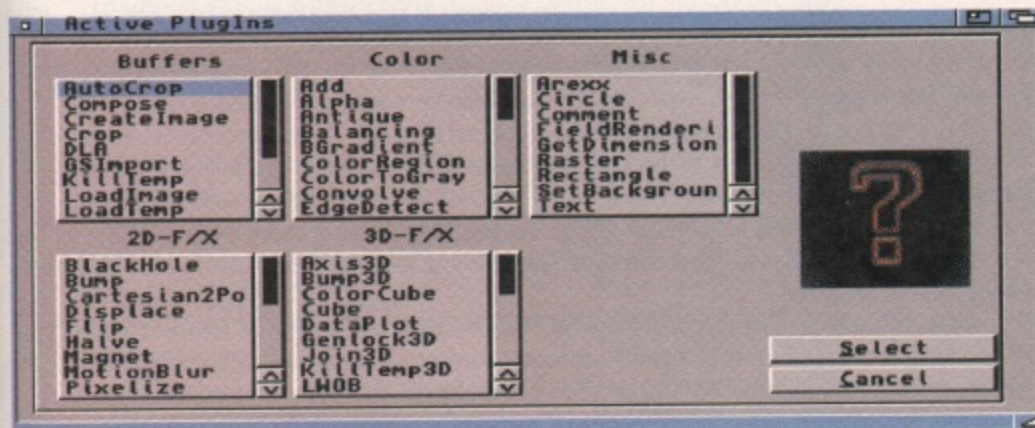
Conclusion

Before Wildfire can be ushered into the hall of fame it needs to be re-designed with a more disciplined working environment.

If it didn't show so much potential then I wouldn't bother giving it such a hard time over this, but it's obviously got plenty to offer. Also, as one of the first PowerPC Amiga applications it's inevitably going to be held up as something of an ambassador for the new breed of Amiga software, so it would be good to show PC and Mac users just what they're missing out on.

Regardless, if you're serious about making dynamic and eye catching animations, Wildfire should definitely be investigated. You can take a look at the shareware demo on the Aminet and this month's CD to get an idea of it for yourself. ■

Tony Horgan



▲ The selection of effects and plug-ins is impressive. There's about twice as many available as you can see here.

WILDFIRE 5 PPC

Developer: WK-Artworks

System Requirements:

68020 (at least 030 or PowerPC recommended), AGA or graphics card, 4Mb RAM, CD-ROM drive

Ease of use	65%
The weakest link. It gets better once you learn things parrot fashion but should be better.	
Performance	88%
Lots of good effects and on a PowerPC it's nice and fast (it would be wouldn't it?).	
Value for money	70%
As it's priced at the professional end of the market, I'd like to have seen a more polished overall product.	

OVERALL

A great tool for imaginative animators but needs tidying up.

79%

Permedia 2

phase 5's PPC graphics cards are based on the Permedia 2 video accelerator. We take a look at the chip which could revolutionise the Amiga.



▲ Here's the powerhouse behind the phase 5 card, the Permedia 2 chip from 3DLabs.

A lot of excitement has been engendered by the announcement of phase5's planned release of a graphics card for

their PPC accelerators which includes one for their BlizzardPPC line of A1200 cards.

Much excitement has been at the thought of many A1200 owners, who'll at last be able to get a graphics card. Also, it doesn't cost a lot; the Cybervision version priced at 549DM or £219, and the Blizzardvision 499DM or around £200. The story is that it's going to be better than a Picasso 4, too. Prepare for a shock – it's going to be *loads* better.

The Permedia 2 is a new generation of graphics chip. Older chips just chucked pixels at the screen, these newer models have a lot of computing hardware in them for generating 3D imagery. The most common use of this kind of hardware is in games, and such chipsets can be found in Playstations/Nintendo 64s, enabling high quality, fast 3D with relatively low powered CPU's.

Many PC gamers these days will also have a 3D graphics board plugged into their computers, the current favourite being the Voodoo 3dxf based cards, which are capable of producing stunningly smooth 3D graphics. A major use aside from gaming is for artists working in 3D graphics. With one of these 3D accelerator cards doing the difficult part of the job, objects can be rendered, shaded and light sourced in real time in the preview

window of a 3D graphics/animation package, making it much easier to see immediately the effects of any changes you make.

OpenGL

The most common system of addressing 3D graphics is the "OpenGL" API. This cross platform graphics standard is well established in the professional graphics market, but has faced a strong challenge recently from Microsoft's Direct3D.

High end graphics cards and Graphics workstations tend to support OpenGL, as does software such as Lightwave 5.5, but the truth is that games call the shots in the war of hardware upgrading. Here Direct3D looked very strong, but id Software championed OpenGL with their GL version of the market leading software package QuakeGL.

Where Quake and id go, the industry goes. As part of the CybergraphX retargetable graphics system, since version 3 phase5 have shipped CyberGL, an Amiga version of this 3D graphics addressing language.

This was originally developed to go with the 3D chip on the Cybervision 64/3D card, but never got very far with that. The Cybervision 64/3D uses a primitive 3D chip called the S3 Virge. The performance of the Permedia 2 is so far ahead of the Virge it wasn't even worth our while trying to scale the performance of the older chip onto our benchmark graphs.



▲ Games running on Permedia 2 could look like this.

2D Too

Unlike the Voodoo but like, for instance, the acclaimed Riva 128 chip, the Permedia has great 2D performance too. With 4Mb of 64 bit wide SGRAM specified for the phase 5 graphics card, it does 1280 by 1024 screens in 24bit truecolour at 85Hz, or 1600 by 1200 in 24bit truecolour in 60Hz (NTSC rate).

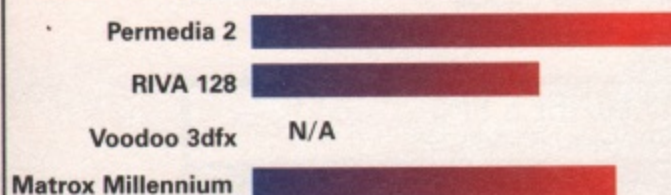
Compare it to the specs of any current Amiga graphics card and you'll see the value of the 800Mb/s access speed for the local video RAM and a RAMDAC running at a fast 230MHz. 3D graphics is one of the fastest growing areas of computing today, and Permedia 2 is a solid choice by phase 5.

With hardware like this the Amiga will be an extremely tempting hardware platform for 3D graphics artists, and would be more than capable of running any game you care to think of. Interesting times ahead! ■

Andrew Korn

How good is Permedia 2?

2D Graphics performance



3D Graphics performance



These performance graphs show the Permedia 2 to be very much at the head of the field, but as with all benchmarks, we advise caution. Other benchmarks place the Permedia slightly below the 3dxf.

Source – 3DLabs.

The hardware

The hardware specs are impressive. The Permedia 2 has a 16 bit Z buffer, a 230Mb RAMDAC, and an 800Mb/s interface to SGRAM video memory. It is capable of hardware gouraud shading, anti aliasing, stencil buffers, Alpha blending and Pixel fogging. The chip is capable of 1 million texture mapped polygons per second, and 83 million textured, bilinear filtered, perspective mapped pixels per second... you what mate?

- **Alpha Blending:** Allows opacity data alongside RGB data for transparency effects.
- **Anti Aliasing:** Reduces jagged lines by smoothing with mid tones.
- **Gouraud Shading:** Artificially generated smooth shading to a simple geometric shape, gives the appearance of a smoother more complex shape.
- **RAMDAC:** The hardware which takes information from memory and sends it to the screen. The faster this is, the quicker the graphics card can draw the screen.
- **Texture Mapping:** Applying flat bitmap pictures to a 3D object to simulate textures.
- **Trilinear Mip-mapping:** A technique for processing texture maps which involves horribly complex calculations. Interpolated the bitmap data to map smoothly onto the 3D shape and avoid blockiness when the shape is viewed close up.
- **Z-buffering:** Stores depth information for pixels, allowing hidden surfaces to be easily calculated.

For more information on the forthcoming phase5 card, call a phase5 dealer such as White Knight on +44 (0)1920 822321, Power Computing on +44 (0)1234 851500, Blittersoft on +44 (0)1908 261466 or Weird Science on +44 (0)116 2463800. If you have internet access call up www.phase5.de for more information.

Official Government & Educational orders welcome



Tel: 01543 250377

or send cheques to:



Owl Associates Ltd

Dept 563, Owl House, 5 The Brambles, Lichfield, Staffs, WS14 9SE

Normal UK Delivery £2.00, Next Day £7.50

Prices INCLUDE VAT (@17.5%) E & OE

Printer Ribbons

BLACK	1 off	2+	5+	10+
Amstrad DMP 2000/3000	2.80	2.65	2.45	2.25
Amstrad PCW8256/LQ3500	2.85	2.70	2.50	2.30
Citizen 1200/LSP10/SWIFT 24/9	2.85	2.70	2.50	2.30
Epson LQ1100	4.10	3.95	3.75	3.55
Epson FX/MX/RX80/FX/LX500	2.90	2.75	2.55	2.35
Panasonic KXP1123/1124/1140	3.46	3.31	3.11	2.91
Panasonic KXP1080/1180/90	2.89	2.74	2.54	2.34
Panasonic KXP2123/2124/2180	4.95	4.80	4.60	4.40
Star LC16/20/100	2.29	2.14	1.94	1.84
Star LC200	3.00	2.85	2.65	2.45
Star LC24-10/20/200	2.86	2.71	2.51	2.31

These are just a small selection of our Ribbons - Ring for those not listed

Ring us and WE WILL BEAT
all other Ribbon prices

Laser Tones

	each	Ring for Tones not listed
HP Laserjet II/III	40.00	
HP Laserjet IIP/IIIP	45.00	
HP Laserjet 4L, 4LM	50.00	
HP Laserjet 4, 4M	71.00	
Panasonic KXP-4410/4430	26.00	
Panasonic KXP-4400/5400	17.00	

Miscellaneous Items

100 3 1/2" Disk Labels	1.99	Mouse House	2.99
1000 3 1/2" Disk Labels	8.99	Glass Screen Filter 17"	29.99
1000 White Tractor Feed	10.99	14" 15"	16.99
3 1/2" Disk Labels	10.99	Python 5 Joystick	10.99
3 1/2" Disk Cleaning Kit	2.99	Warrior 5 Joystick	10.99
Parallel Printer Cable	3.99	Super Warrior Joystick	15.99
Mouse Mat	2.99	Skymaster Joystick	29.99

Dust Covers - Ring for prices

Branded CD-R

	1-9	10-99	100-999	1000+
All supplied with cases	2.70 each	2.55 each	2.45 each	2.30 each

Disks & CD Boxes	100	250	500	1000
3 1/2" 100 Capacity Box	5.99			
3 1/2" 10 Capacity Box	1.50			
2 Capacity CD Cases	0.75			

Inkjet / Bubblejet Cartridges

	1 off	2+
Apple Stylewriter	16.30	14.10
Canon BJ 10, 10ex, 10ex, 20	16.30	14.10
Canon BJ 30, 70 Bk (Pk3) BC1-10BK	10.00	9.80
Canon BJ 70 Bk (Pk3) BC1-11BK	10.00	9.80
Canon BJ 70 Col (Pk2) BC1-11C	11.00	10.80
Canon BJ 200/10/30/40 Black	16.30	14.10
Canon BJC 210/40 Colour	24.30	24.10
Canon BJ 300/30	7.00	6.80
Canon BJC 600/10/20 Bk, Cy, Mag or Yel	3.00	2.90
Canon BJC 4000/100/200	27.00	26.80
Canon BJC 4000/100/200 Hd+Bk+Col	41.00	39.80
Canon BJC 4000/100/200 Small Black	7.00	6.80
Canon BJC 4000/100/200 Small Colour	11.00	10.80
Commodore MPS1270	10.80	10.60
Commodore IP3300 Bk Head & Refill	39.00	38.80
Commodore IP3300 Bk Clip-In & Refill	15.00	14.80
Commodore IP3300 Colour	33.00	32.80
Epson Stylus 400,800,1000,1000 Black	7.00	6.80
Epson Stylus Color, Pro XL, Black	10.00	9.80
Epson Stylus Color, Pro XL, Colour	14.00	13.80
Epson Stylus 820, Colour, II/III Black	11.00	10.80
Epson Stylus 820, Colour, II/III Colour	14.00	13.80
Epson Stylus Color 200 Black	11.00	10.80
Epson Stylus Color 200 Colour	14.00	13.80
Epson Stylus Color 400,600 Black	10.00	9.80
Epson Stylus Color 400,600 Colour	22.00	21.80
Epson Stylus Color 500 Black	10.00	9.80
Epson Stylus Color 500 Colour	14.00	13.80
HP Deskjet 400,500/10/20/40/50/60 Black	21.00	20.80
HP Deskjet 400,500/40/50/60 Tri-Colour	22.50	22.30
HP Deskjet Portable, 310/20/40 (High Cap.)	19.50	19.30
HP Deskjet 600/60/90/93/94 Black	23.00	22.80
HP Deskjet 600/60/90/93/94 Tri-Colour	24.00	23.80
HP Deskjet 600/60/90/93/94 Photo Tri-Colour	31.80	31.60
HP Deskjet 820/50/55/70 Black	24.00	23.80
HP Deskjet 820/50/55/70 Tri-Colour	25.50	25.30
HP Thinkjet/Quickjet	10.80	10.60
Star SJ 48	16.30	16.10

We also stock other cartridges & refill kits suitable for most inkjet/bubblejet printers. Ring for details & prices for those not listed

Inkjet / Bubblejet Refill Kits

	8.50 for 2 x 20ml Refills
Apple Stylewriter	8.50 for 2 x 20ml Refills
Canon BJ 10/10ex/20/200/230	8.50 for 2 x 20ml Refills
Epson Stylus 400/800/1000	8.50 for 2 x 20ml Refills
Epson Stylus Color Black	8.50 for 2 x 12ml Refills
Epson Stylus Color Colour	10.50 for 9ml of each Col
HP Deskjet 500 Series Black	11.00 for 2 x 40ml Refills
HP Deskjet 500 Series Tri-Colour	12.00 for 12ml of each Col
Star SJ48	8.50 for 2 x 20ml Refills

CARE QUALITY & SERVICE

QUALITY INK JET & BUBBLE JET REFILLS

INK RUN OUT? RIBBON WORN OUT?

Don't throw that printer cartridge away, refill it. No need to spend unnecessary money on a complete new one, when it's only the ink or ribbon that needs replacing. Save pounds and help the environment.

Our ink refill kits use top quality inks suitable for most printers including: CANON BJ/BJC RANGES, H/P DESKJETS, CIT, PROJET, OLIVETTI, EPSON STYLUS/STYLUS COLOURS, and contain all you need to refill your existing cartridge.

Black refill kits contain 120ml pure black ink, price £16.99.

Tri-colour refill kits contain 60ml each of yellow, magenta, cyan, price £24.99. Once you have the kit you can make future savings by ordering the ink only.

'Ink only' and larger quantities prices on request.

SPECIAL XMAS OFFER

Ink Refill Starter Trial Pack

only £17.50

"Print-head recovery fluid" for unblocking nozzles, £6.99 or £4.99 with any ink order.

Now you, your family and friends can try our refill kits with our special Xmas Starter Trial packs, a great idea for Xmas gifts and especially filling those Xmas stockings! Each pack contains all you need to refill your existing cartridge including 30ml each of yellow, magenta, cyan and black ink. Please state printer type when ordering.

PRINTER RIBBONS	NORMAL INK	T-SHIRT PRINTING
	complete colour ribbon	complete colour ribbon
Citizen Swift/ABC/240 etc	£11.95	£19.99
Panasonic KXP2123/2124/2180	£9.99	£18.99
Panasonic KXP2135	£9.99	£18.99
Star LC200 9pin	£9.99	£18.99
Star LC24-10/20/200	£9.99	£18.99
Star LC24-30/LC240	£8.99	£18.99
Seikosha SL95	£14.95	£24.99

To reload a ribbon is easy, just remove the top, take out the old ribbon & reload it with a new one. MANY MORE RIBBONS & RELOADS IN STOCK.

DON'T FORGET TO STATE PRINTER TYPE

Prices include VAT & postage. To order send cheques/POs payable to:

CARE PRODUCTS

Dept CUA, 15 Holland Gardens, Watford, WD2 6JN

or use Visa/Mastercard or Education order.

Tel order line 01923 894064



Fax ORDER LINE 01923 672102



gives
your
AMIGA
the
World
from
£8* per
month

In association with



01624 677666

Technical Support: 01325 352260

<http://www.enterprise.net>

Corporate Solutions also available

Terms & conditions available on request

*£9.40 inc.VAT. No online charges

All trademarks recognised.

PD Scene

Stevie Bye has been a good little boy this year by the look of it, as Santa's given him plenty of games for review. Are they any cop though...?



Totally blinding
Good
Average
Substandard
Oh dear

Kangy

■ **Type:** Platform

■ **Available from:** Saddletramps PD, 1 Lower Mill Close, Goldthorpe, Rotherham. S63-9BY. Tel: 01709 888 127

■ **Price:** 80p plus 50p P&P

Kangy is a good looking but standard platform romp, presumably for kids. The idea is to guide Kangy the Kangaroo, complete with boxing gloves, up the screen to the exit whilst avoiding or punching out the nasties and of course picking up the goodies.

Almost straight away you feel that Kangy should be able to duck down, all through the game I had urges to duck below a nasty rather than bop it one and risk losing a life. If the game is meant for kids it is quite hard and I am sure exasperation will soon creep in for any kid having a bash at it.

Just to make life even more difficult there are lots of badger type baddies that you can't kill and there is a time limit.

But the most annoying part of the game is the boing sound effect every time Kangy jumps, it drives you mad. On the positive side you do get 5 lives to play with and the collision detection is pixel perfect. There's not that much more to the game; you collect all of the fruit on each screen and then put it in the collection boxes, avoid badgers and birds, look at the lovely graphics and turn the sound off.

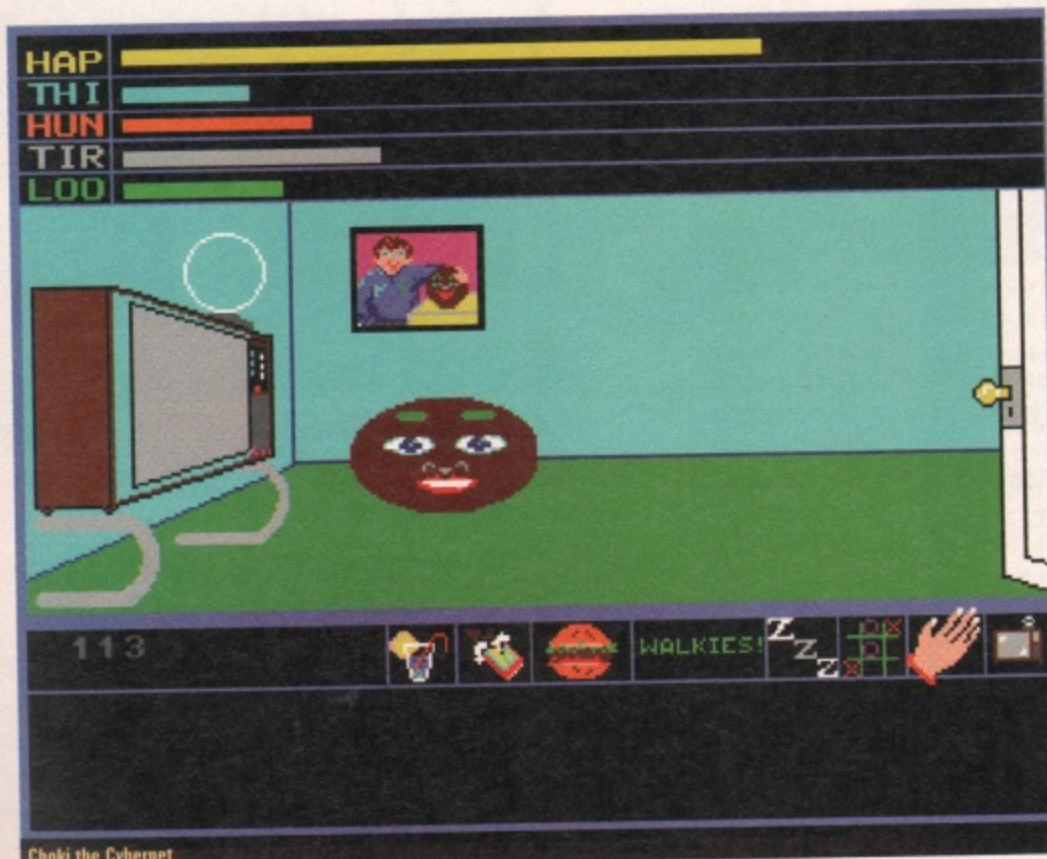
Kangy is possibly a good game that most kids will like the look of but it's marred by unnecessarily difficult gameplay – considering the target audience. It's a bit of a shame that really. If the first few levels were easier to complete the game would suck the player in immediately and Kangy would be a hit with the kids, probably. ★★★★★

Choki The Cyberpet V1.05

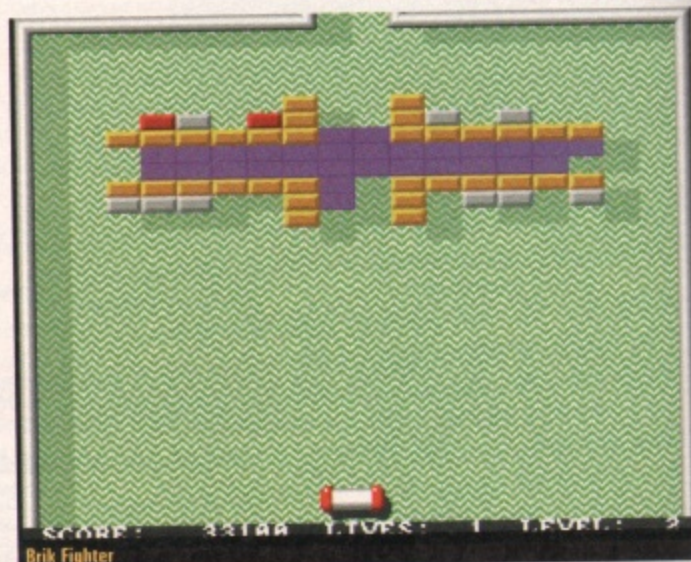
■ **Type:** Simulation.

■ **Available from:** Classic Amiga PD, 11 Deansgate, Radcliffe, Manchester M26-2SH Tel: 0161 723 1638

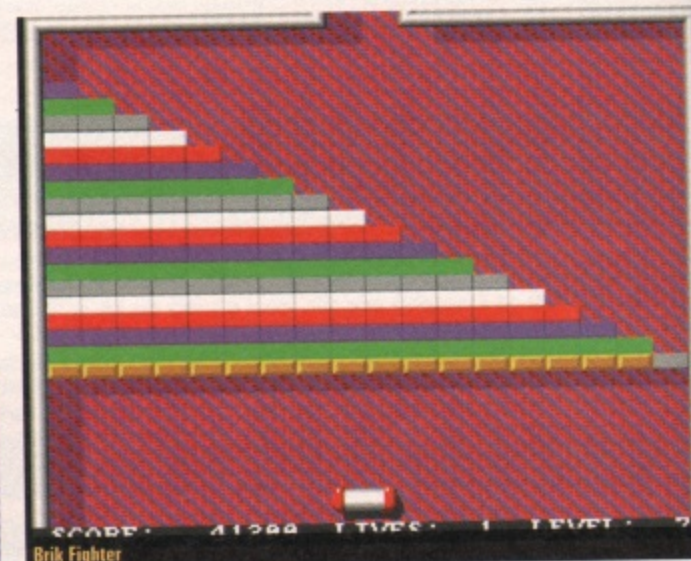
■ **Price:** £1 plus 75p P&P per order.



Choki the Cyberpet



Brik Fighter



Brik Fighter

It had to happen. You can now rear a Cyberpet on your Amiga. Even though the Cyberpet craze is about as fashionable as flares the programmer of Choki has seen fit to foist this 10 minute piece of programming onto a totally innocent Amiga public, wicked man.

For those of you lucky enough not to be familiar with the creatures I will expand further. A Cyberpet 'lives' on your computer and you have to look after it by; taking it for "walkies", feeding and watering it, making sure it gets a good nights' kip, goes to the toilet etc.... In this particular version to keep Choki happy you let it watch TV, makes perfect sense to me. Top of screen are five meters displaying Choki's; happiness, thirst, hunger, tiredness and cross leggedness.

The idea of the game is to keep Choki's happy meter high and the others low. You

achieve this by clicking on the drink icon when he's thirsty and the hamburger icon when he's hungry etc. Apart from bad sound effects and abysmal graphics that's your lot.

Hardly going to tax the old grey matter is it? In Choki's defence you could argue that the program is just a bit of harmless fun, the only problem is that it isn't, Choki is pants. In fact I think I would have more fun at a train spotting convention for the blind. If you can get more than 30 seconds of fulfillment out of Choki then I feel that you should seek medical advice. ★★★★★

Brik Fighter

■ **Type:** Break-out clone

■ **Available from:** Saddletamps PD, 1 Lower Mill Close, Goldthorpe, Rotherham. S63-9BY. Tel: 01709 888 127

■ **Price:** 80p plus 50p P&P

Brik Fighter has been updated and re-released as Freeware. It's an Arkanoid/Break-out clone, even the level designs look the same as the original Arkanoid. It has all the bonuses like; expanding bats, shooting bats, double bats, multiple balls, level warps etc.

The gameplay is extremely smooth, very playable and, it must be said, quite addictive. Unlike a lot of similar clones I have played the author has succeeded in applying a realistic angular deflection when the ball hits the bat, which means you do actually have a small amount of control over where you want the ball to go, and you don't get stuck with one brick in the corner of the screen for three days. There's little more to be said, you've seen it all before in a hundred or so other clones, but Brik Fighter is at least one of the better one's. ★★★★★

Gremlons

■ **Type:** Game collection

■ **Available from:** PD Power 15 Lovetot Avenue, Aston. Sheffield. S26-2BQ Tel: 01374 150972

■ **Price:** 50p +75p P&P

This disk of games is entitled 'Useful Utilities-Gremlons' which should give you some idea of how this review is going to go.

The supposed star of the disk is a game called Gremlons which is possibly the worst game I have ever 'played' in my life on any computer, ever. It pains me to even recall playing it so I will make it brief. You must move a badly drawn and badly animated bloke around some badly drawn platforms, collect the badly drawn blobs called Gremlons and avoid the badly drawn nasties - which are just lines with things on the end.

The colours used in the game are vomit inducing, there is no backdrop and no sound to talk of. It's horrendous in all areas and worse you have a gut churning 100 Gremlons to collect ugh! Gremlons was 'created' with The Platform Construction Kit, not a good advert for said software I think.

The other 6 games on the disk are all ancient PD games that everyone has seen

CANE

■ **Type:** Thrust/puzzle

■ **Available from:** OnLine PD, 1, The Cloisters, Halsall Lane, Formby. Liverpool. L37-3PX. Tel: 01704 834 335.

■ **Price:** 75p

CANE (Cargo And Nothing Else) is a Thrust type game mixed with Lemmings type puzzles.

The gameplay is simple but addictive, again like Lemmings. The graphics are dangerously similar to that of Lemmings too, so I think we can safely assume that Lemmings has a little to do with the inspiration behind CANE. As I have mentioned the word Lemmings 5 times already I promise I won't mention it again in this review.

The idea behind CANE is to guide your Thrust type rocket around the pretty scenery collecting all manner of objects including cargo crates and 'dudes'. The dudes leap up and down to get your attention. You pick objects up by landing on them carefully and then you must tow them back to a transporter. The amount of cargo that has to be collected is displayed on the score-line.

There are also goodies to collect to help you

such as; bombs, fuel and anti-gravity devices.

This demo version has 8 levels to whet your whistle - the full version costs a very reasonable £6 and, according to the docs, offers many advanced functions and levels not featured here.

I loved the music in this game, the sound effects are good too, though you have heard them before, somewhere!? But best of all what I really liked about CANE was that your rocket doesn't get blown up as soon as you touch a foreign object (which often happens in this type of game) and you have a shield which can be topped up. In addition you also have limited fuel to add a little touch of spice to the proceedings.

CANE has been written and well programmed in Blitz Basic, the scrolling is smooth enough and the inertia of the ship is spot on... this programmer sure knows how to write a game. CANE isn't the most original game you'll see this month but it has a touch of class and professionalism about it, a bit like Lemmings. Oops... very sorry! ★★★★★

before like Pong, Conquest, Klondike and Atoms. We all erased these games from our collections at least 5 years ago.

There should be a law against inflicting this sort of dross on the Amiga market, it's in a bad enough state already. Bring back hanging I say! ★★★★★

Marietto

■ **Type:** Arcade game.

■ **Available from:** Classic Amiga PD, 11 Deansgate, Radcliffe, Manchester M26-2SH Tel: 0161 723 1638

■ **Price:** £1 plus 75p P&P per order.

The idea of Marietto is very simple. You con-

trol a Mario type figure at the bottom of the screen which you can move left and right using the joystick.

Above your head is a row of bricks, you can jump up and nut a brick to try and kill the looming baddies that swoop down at you. Sounds easy doesn't it? The catch is you musn't hit certain baddies with the bricks. Objects like boulders and knives are flung at you from the edge of the screen to keep you on your toes, which you have to kick to avoid being killed.

The swooping baddies eventually do a kamikaze on you, you can kick these as well if you are quick enough. Annoyingly though, you get only 2 lives so most games will only

last a few minutes until you get the hang of it. Later on in the game you can collect bonus coins for points and the baddies also shoot at you. I have to say it, Marietto is just not my cup of rosie. I found it frustratingly hard, boring and repetitive. However, like everything in life, Marietto will have its supporters. So if you yearn for the old 8-bit style games you may enjoy this, but to be honest I've had more fun with a Spectrum emulator. ★★★★★



PD Utilities

Once again here's Steve Bye with another bundle of goodies from the world of public domain software. Feast your mince pies on this little lot then!

Diz Explorer

■ **Type:** Archive interface

■ **Available from:** Aminet and all good PD suppliers.

■ **Price:** N/A

Diz Explorer has been designed mainly for the handling of archives. It recognises 13 dif-

ferent archivers: LZX, LHA, LZH, LZ, LX, DMS, ZIP, ARC, ARJ, SIT, TAR, EXE and RAR, which just about covers all the file types you are likely to come across on the Amiga and PC. This could be very useful when downloading PC software to your Amiga. To decompress any of the supported archive types you just select the file and click on

★★★★★ Totally blinding
★★★★☆ Good
★★★☆☆ Average
★★☆☆☆ Substandard
★☆☆☆☆ Oh dear

'Uncompress'. The program also supports archive conversions which is useful if you have say ZIP files on your Amiga, just select the file or even a whole directory of archives and tell Diz Explorer to convert them to LHA, LZX or any other format and it will all be done for you automatically. DE also supports most forms of file ID's. These are small ASCII files usually contained with or within

Utility of the Month...

Scion

■ **Type:** Genealogical database

■ **Available from:** OnLine PD, 1, The Cloisters, Halsall Lane, Formby, Liverpool. L37-3PX. Tel: 01704 834 335.

■ **Price:** 75p

The term defined in my dictionary under 'scion' says 'descendant, heir' which should give you are fairly good clue of what this program is about. It's a database for keeping track of genealogical information, ie, A family tree.

It has many excellent features including support for IFF picture files, free form notes, printed reports and on-line context-sensitive help. Scion is Freeware and has been around for some years, but luckily has seen many bug fixes and revisions. This latest version (V4.09) seems to have mopped up even the tiniest of bugs and I would be surprised to find any bugs at all in this well written program. A few years ago I did have a go at defining my family tree with Scion and I can tell you the research you need to undertake can be quite heavy going once you have finished covering your living relatives, but it is also very interesting. For example I was shocked to discover that on my Grandfathers side almost all

of his immediate male relatives were killed in the first world war and I had a great, great uncle who was an inventor. I won't go into what some of my ancestors supposedly got up to though! I never completed the tree properly as there were just too many missing links but it was riveting stuff and Scion held up well, I just wish I still had the data. Scions' front-end is extremely easy to use, you don't need to read the instructions, but a quick skim through the guide would be sensible. To start a tree you simply click on 'Add New Person'. You can start a tree at any point, so if for example you were creating your own family tree you could start with yourself, you simply fill in the point and click form with your personal details. If you are married you just click on '1st Marriage' then fill the details. If you have children just click on 'Add Child' and so on. As I said, it is all very straight forward. Once

you have entered some data Scion can produce progeny charts to your printer or the screen.

Scion can even handle multiple marriages, unconventional marriages, adopted children and unmarried parents. And just to make sure everyone is happy there is a flexible search option, locale support, multiple ARexx ports, support for virtual memory, runnable on Pal or NTSC from floppy or hard drive. I tried very hard to find something to criticize about Scion to balance this review, but I just couldn't find anything.

Scion is a superb piece of Amiga software that makes what would otherwise be a complex task into a pleasure. ★★★★★

Utility
of the
Month

Personal Details (N) - Example

Last Name	DEMPSEY	Sex	M
First Name	Annie Pearl		
Date	30 Sep 1985	Place	Christchurch, NZ
Birth			
Baptism			
Death	26 Dec 1985		Christchurch, NZ
Burial			Linwood Crematorium, Christchu
Occupation			
Education			
Religion			
Died of			
Comments	Sources: Birth <97>; Death <97>; Burial <97>		
References			
Father			
Mother			
Spouse	SMITH, Ernest Raymond [99]		
SELECT OTHER	<input type="button" value="Desc"/> <input type="button" value="Sib"/> <input type="button" value="Spouse"/> <input type="button" value="Marriage"/> <input type="button" value="Children"/>		

TOOLS

- Edit Notes
- View Picture
- Personal Search
- EDIT DATABASE
- Add New Person
- Delete Person
- Set 1st Marriage
- SELECT FAMILY
- Parents/Siblings
- Spouse/Children
- Family List...
- Go to Family...
- STATISTICS
- Age 88
- Siblings 8
- Marriages 1
- Children 2

Family Details (N) - Example

P	SMITH, Ernest Raymond [99]	
S	DEMPSEY, Annie Pearl [1985]	
Date		Place
Engagement		
Wedding		
Ended		
Celebrant		
Witness		
Comments		
References		
End Reason	[+] Unknown	
SMITH, Margaret Ellen [1933]	b:29 Jan 1925	
SMITH, Ernest Alfred (Jnr) [1923]	b:1 Oct 1926	
SELECT MARRIAGE	TURN	SELECT FAMILY
LIST	31	LIST

Cancel

Family Details (N) - Example

P	SMITH, Ernest Raymond [99]	
S	DEMPSEY, Annie Pearl [1985]	
Date		Place
Engagement		
Wedding		
Ended		
Celebrant		
Witness		
Comments		
References		
End Reason	[+] Unknown	
SMITH, Margaret Ellen [1933]	b:29 Jan 1925	
SMITH, Ernest Alfred (Jnr) [1923]	b:1 Oct 1926	
SELECT MARRIAGE	TURN	SELECT FAMILY
LIST	31	LIST

Cancel

an archive, the extensions supported are: TXT, DIZ, NFO, INF, INFO, DOK, DISPLAYME, READ, DOC, README, TEXT and GUIDE. If when you select an archive a file

ID is found, the contents of the file ID will be displayed in Explorer's window.

It's very useful for skimming through a lot of archives, say on a CD for example. There is also support for Aminet archives. Other time and hassle saving features are Diz Explorer's 'Mount RAD:' and 'Mount FFx:' options, you can now mount these devices with a click of the mouse. Then there is a file list creator for directories or devices, and launch, copy, move and delete files. DE will be useful for handling unusual archive formats and painlessly mounting RAD: it's nothing earth shattering but a useful utility to have in your collection. ★★★★★

The Lottery Predictor V2.8

■ **Type:** Lottery prediction

■ **Available from:** OnLine PD. 1, The Cloisters, Halsall Lane, Formby. Liverpool. L37-3PX. Tel: 01704 834 335.

■ **Price:** 75p

No, not another Lottery Predictor I thought, although I initially liked the look of this.

It's written in Amos but using an extension called AWE. AWE has a few minor problems but overall most non-programmers won't notice the difference to normal Intuition programs. The program itself has a dazzling array of features which I do not have room to list here but the Perms and Number Wheels features are useful and you can view stats from the draws in many variations. The program comes with a data file that covers the first 127 draws to March 97, which includes Wednesday draws.

I decided to update the file but soon realised there are errors in the data file; the first is that the numbers for draw 125 are completely missing which caused me a headache, I had to renumber 30 draws

because of it. When I ran it again the draws were corrupted and the program refused to recognise anything past draw 121. I reverted to the original data file and entered all the draws up to 161 by hand in a text editor. I ran the program again and the draws were still corrupted. I then got yet another kick in the teeth, this demo will only take 150 draws max – which it doesn't say in the docs.

I am just glad I didn't enter all the draw numbers to date, what a waste of an evening. I soon realised the program was bugged beyond use. It seems to replicate draws; whether this is because of the data file or the programming itself I do not know. It's possible someone other than the programmer messed with the data file before I got hold of it as I can't believe the programmer wouldn't have noticed a huge problem like this. When the bugs are ironed out TLP could be worth a look though. ★★★★★

Sweet Cheater V5

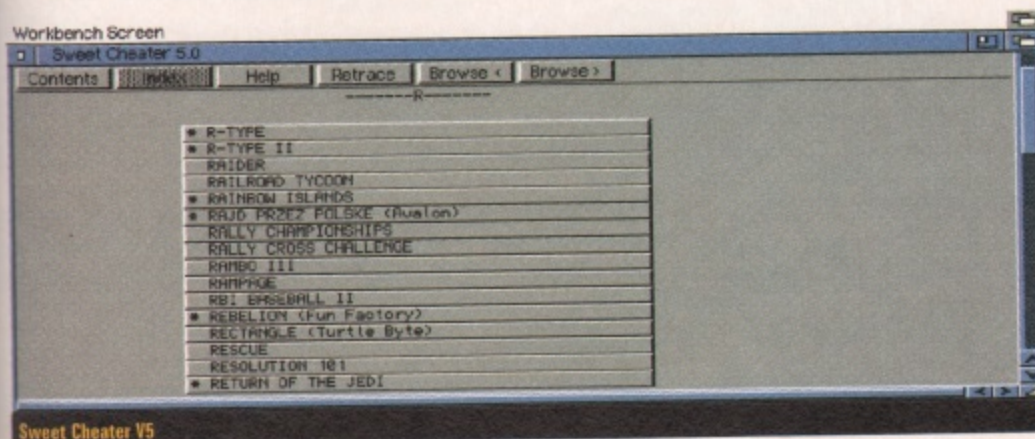
■ **Type:** Database of cheats

■ **Available from:** OnLine PD. 1, The Cloisters, Halsall Lane, Formby. Liverpool. L37-3PX. Tel: 01704 834 335.

■ **Price:** 75p

There are plenty of cheat lists around but Sweet Cheater has to be the best I've seen. It has cheats, hints, tips and codes for over 1000 games. The list is presented in a well constructed AmigaGuide document and it's easy to find what you are looking for.

I conducted a little experiment on Sweet Cheater, I looked up the first 10 games that I could think of, and they all had an entry – impressive. Also in SC's favour is that the author has credited his sources which makes a change. Probably the best of its kind at the moment. ★★★★★



Best of Aminet

It seems that there has been a bit of a glut of games turning up this month, including a few nice looking demos of the latest Licenceware games. Football fans make your way to game/demo/euro_man.lha (439k) to try out European Manager. Take charge of one of the giants of Europe and challenge for the European Super League title. Simplistic, but fun. Gore fans should tune in to game/demo/proto.lha (677k) for an astonishingly polished looking Operation Wolf clone from Comatose. Same old 'horizontal scrolling line bad guys up in your crosshairs and shoot them gameplay', but with very nicely drawn graphics – a great piece of fast action nostalgia.

MP3 encoding allows near CD quality audio to be compressed into a very small space, but decoding it in real time is hard work. PPC boards come with a player which keeps it barely ticking over, but the real serious guys use hardware decoding such as is provided by the NSM truesound ISA card. If you have active ISA, using a GG2 or one of the new ISA equipped Amigas from Index, you can use one of these cards too, with the driver you will find at hard/driver/trueamiga.lha (29k).

There seems to be a bit of an alien theme amongst the artists of the Amiga world this month, with all sorts of people uploading images of alien space stations, strange creatures and weird landscapes. Top aminet Artist Francesco Gambino contributes pix/trace/alienattack.jpg (74k) to the collection.

My favourite upload this month is the wonderful but useless misc/misc/poetry.lha (84k), a random poetry generator less random and more surreal than any I have seen before. With the default text dictionary, it somehow came up with the following:

The unimaginable barrenness nurtured the guardian, / Half remembered the silent woman reached out for him, / She loved his suffering unceasingly. / Godlike, the unimaginable barrenness engulfed the unforgiven, / Unknowing, it's soul was a reflection of them, / it longed to touch their empty eyes. Great stuff, but total gibberish.



Why Apple?

One day we all hope to see the rebirth of the Amiga with a PowerPC processor and other new features to enable it to compete again with today's systems. Sadly though, more than 2 years since Commodore's demise, little of substance has actually happened. We've seen prototypes and heard promises... we all hope to see new Amiga developments.

If you can't wait and need more performance today, without paying the earth - there's only one real alternative to consider... There's never been a better time to think Apple!



Only Apple offer you both desktop and portable computers that truly match the ease of use the Amiga brought to your desktop. Affordable Apple Macintosh systems have PowerPC RISC processors with thousands of off-the-shelf programs available in areas where the Amiga was always previously so strong.

And, if you need the most compatible of all computers, Macintosh is currently the only system that can run MacOS, DOS and Windows applications via optional DOS Cards or SoftWindows software.

PowerMac 5400/180

- PowerPC 603e
- 180MHz
- 16Mb RAM
- 2Gb Hard Drive
- 8 Speed CD
- 15" Integral Colour Monitor
- 28.8bps Modem
- Design Keyboard
- 'Family' Software*



**ONLY...
£986**

Just £6.65 Per Week

*FAMILY PACK SOFTWARE INCLUDES...

- Grolier Multimedia Encyclopaedia • DK's Ultimate Human Body • Sammy's Science House
- Thinkin' Things 3 • Full Throttle • PowerPete • The Best of European Soccer
- Claris Works • HyperCard Player • Acrobat Reader • MacLink Plus • At Ease
- Apple Internet Connection Kit • Apple Telecom 3.0

PLUS XTRA SOFTWARE... • Apple Magic Software Collection by Disney and • Descant

PowerMac 4400/200

- PowerPC 603e
- 200MHz
- 16Mb RAM
- 1.2Gb Hard Drive
- 8 Speed CD
- 15" MultiSync Colour Monitor
- Design Keyboard
- FREE Internet Connection Kit



**ONLY...
£1174**

Just £7.93 Per Week

...comprising of an integrated collection of Apple and third party software needed to connect directly to the Internet easily! Perfect solution for Mac users who want Internet access today! (requires modem for Mac)



PowerMac 6500/275

- PowerPC 603e
- 275MHz
- 32Mb RAM
- 4Gb Hard Drive
- 12 Speed CD
- 15" AV MultiSync Colour Monitor
- Video & TV/Text
- 33.6bps Modem
- Design Keyboard
- *Creative' Software



**ONLY...
£2408**

Just £16.27 Per Week

*CREATIVE STUDIO SOFTWARE INCLUDES...

- All the software listed (left) in the 'Family Pack' * PLUS XTRA SOFTWARE...
- KAI's Power Goo • Avid Cinema • Cubase AV • Dabbler
- Adobe PageMill • Adobe PhotoDeluxe • 3D World
- ClickArt • Actua Soccer

Other PowerMacs

SHOWN BELOW IS JUST A SMALL SELECTION FROM THE VAST RANGE OF APPLE MACINTOSH COMPUTERS WHICH ARE CURRENTLY AVAILABLE...

Model	MHz	CPU	RAM	HD	CD	Display	FREE Printer	Tv/Text	Video	Modem	Keyboard	Price	Software Pack
PM4400	200	603e	16	1.2Gb	✓8	15" MS	✓	✓	✓	✓	Design	£1174	✓
PM5400	180	603e	16	2.0Gb	✓8	15" Integral	✓	✓	✓	✓28.8	Design	£986	FAMILY PACK
PM5500 Black Mac	225	603e	32	2.0Gb	✓12	15" Integral	SW 2500	✓	✓	✓33.6	Design	£1549	FAMILY PACK
PM6400	200	603e	16	2.4Gb	✓8	✓	✓	✓	✓	✓28.8	✓	£1820	HOME OFFICE
PM6400	200	603e	16	2.4Gb	✓8	✓	✓	✓	✓	✓28.8	Design	£974	HOME OFFICE
PM6400	200	603e	16	2.4Gb	✓8	15" AV MS	✓	✓	✓	✓28.8	Design	£1139	HOME OFFICE
PM6500	250	603e	32	3.0Gb	✓12	15" AV MS	SW 2500	✓	✓	✓33.6	Design	£1938	HOME OFFICE
PM6500	275	603e	32	4.0Gb	✓12	15" AV MS	SW 2500	✓	✓	✓33.6	Design	£2466	CREATIVE STUDIO
PM8600	250	604e	32	4.0Gb	✓24	✓	✓	✓	✓	✓	Extended	£3171	✓

* FAMILY PACK software is as detailed above (see 5400/180 offer) • CREATIVE STUDIO software is as detailed above (see 6500/275 offer) • HOME OFFICE software pack includes all the 'Family Pack' software PLUS... Claris Impact and Claris Organiser

Portable Macs

SHOWN BELOW IS JUST A SMALL SELECTION FROM THE HUGE RANGE OF POWERBOOK MACINTOSH COMPUTERS CURRENTLY AVAILABLE...

1400cs/133	16/1300, DS, CD	LIMITED OFFER! WSL	£1585
1400c/133	16/1300, AM, CD		£2584
1400c/166	16/2000, AM, CD		£2760
3400c/180	16/1300, AM	LIMITED OFFER! WSL	£2819
3400c/180	16/1300, AM, 12 Speed CD, Ethernet		£3171
3400c/200	32/2000, AM, 12 Speed CD, Ethernet		£3641
3400c/240	16/3000, AM, 12 Speed CD, Ethernet		£4346

Type of PowerBook Display:
DS=Dual Scan Display, AM=Active Matrix Display

Newton Handhelds

SHOWN BELOW IS JUST A SMALL SELECTION OF NEWTON HANDHELD MESSAGEPAD PRODUCTS/ACCESSORIES AVAILABLE...

Newton 2000 MessagePad 8Mb, Backlit Screen	LIMITED...	£680
Newton 2000 Carry Case		£34
Newton 2000 Carry Case with room for Keyboard		£74
Newton 2000 AC Adaptor		£34
Newton 2000 Battery Pack		£28
Newton 2000 4Mb Flash Upgrade		£105
Newton 2000 Keyboard		£74

ALL current Newton models available along with their accompanying peripherals and software titles - CALL US

Please send the coupon or phone us - we'll rush you your FREE 'Why Macintosh' brochure pack

Mr/Mrs/Miss/Ms:	Initial(s):	Surname:	Daytime Phone:	Evening Phone:
Address:			Main use(s) of computer: HOME <input type="checkbox"/> BUSINESS <input type="checkbox"/> EDUCATION <input type="checkbox"/>	
			Current computer and accessories:	
County or Country:			Postcode:	

Please cut out the coupon and return it FREE to...

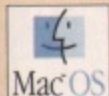
GORDON HARWOOD COMPUTERS • FREEPOST MID04091 • Dept. CUA • NEW STREET • ALFRETON • DERBYSHIRE • DE55 9BR
Tel: 01773 836781 • Fax: 01773 831040 • e-mail: info@ghc.co.uk

Manufacturers' specifications and GH prices are correct at time of going to press; however, they may fluctuate and we therefore reserve the right to amend them - please confirm prices before ordering. Software/Product packaging for bundled systems items may not be included and is shown for illustration purposes only.

Why Macintosh?

Performance:

All Macs have the latest PowerPC RISC processors (poor old Pentium systems are still CISC designs). Even entry level desktop Macs run at 180MHz, with 350MHz powerhouses at the top of the range (Mac PowerBook portables offer up to 240MHz).



Software choice:

Over 1,800 native software packages (written specially for PowerPC Processor Macs) have been shipped since Power Macintosh was launched in 1994 - plus there are thousands of industry standards which can also be used. Industry standard programs such as Microsoft Word and Excel, PageStream, Word Perfect, FileMaker Pro, Quark Xpress, Photoshop and many others were developed for the Mac.

Creativity:

- Macintosh still dominates the creative world with an 80% market share in colour publishing.
- 65% of post-production video editing is on Macs.
- Macintosh is the most widely used system for the creation of Internet web pages.
- Most magazines (including the one you're reading right now) are created on Macintosh.



Multimedia:

- Apple is the World's No. 1 Multimedia PC vendor.
- All desktop Macs have a fast CD-ROM drive as standard (many portables have internal CDs too).
- In 1995, 42 of the top 50 selling CD-ROM titles worldwide were developed on the Macintosh.
- Many Macintoshes have built-in TV with teletext so TV clips can be recorded directly to disk as QuickTime movies.
- Many Macintoshes have built-in video in and out, for direct recording to VCRs.
- Some Macintoshes have internal digital video editing facilities as standard and many others can include this facility with an easy upgrade.



ISDN, the Internet & Communication:

- Macs are Internet/e-mail ready and many include modems with full send/receive fax and answer phone. Adding an ISDN connection is easy.
- Industry standard web browsers, Netscape Navigator and Microsoft Internet Explorer, were developed for the Mac meaning Access to Worldwide Web sites is easy.
- QuickTime, the Internet's standard format for video files, or QuickTime for Windows, are both Apple products. Of course QuickTime comes as standard with every Mac.



Connectivity & Expandability:

- Unlike other PCs, all Macs have networking built in as standard, so connecting systems together and adding shared printers etc. couldn't be easier.
- All Macintoshes have an external SCSI connector as standard. Adding external drives, ZIP/JAZ and other cartridge drives, scanners etc. really is Plug-and-Play.
- Low-cost digital cameras can be plugged into the Mac for instant real image input.



Education & Edutainment:

- Being the World's No.1 education supplier, quality Macintosh titles are widely available. Dorling Kindersley offer superb packages like The Ultimate Human Body and there is a varied supply from other leading software publishers too.
- Because Macintosh is the preferred system within many educational establishments, high quality software is assured.



Recreation & Games:

- Top games like The Ultimate Doom, Myst, Rebel Assault II, Dark Forces, Descent, Afterlife, Lost Eden, Legend of Kyrandia, Full Throttle & The Dig have all been developed for Macs.



Output & Presentation:

- Connecting and using colour printers (from Epson, HP, Apple and others) to Macs is so easy and with photo quality output the results are truly outstanding.

PERIPHERALS

MONITORS...	GRAPHICS TABLET...
Apple 15" AV MultiSync £222	Wacom ArtPad II with Dabblor £116
Apple 17" 1705 TCO MultiSync £304	
Apple 17" 1710AV TCO MultiSync £528	
Apple 20" AppleVision 850 £1291	
LASER PRINTERS...	STORAGE...
Apple LaserWriter 4/600PS - A4, 600dpi £528	D2 Quantum 2.1Gb External HD £257
HP LaserJet 6MP - A4, 600dpi £727	E2230 Syquest Drive inc. Cart. £163
Apple LaserWriter 12/600PS - A4, 600dpi £939	D2 JAZ Drive inc. Cartridge £304
	D2 2400e 16 Speed CD Drive £175
	Micronet 2400E CD Drive £210
	(with 5 great software titles)
INKJET PRINTERS...	COMMS...
Apple StyleWriter 2500 A4 Colour £175	Global Village TelePort Internet £116
Canon BJC 4550 A3 Colour £328	(33.6, inc. Global Transfer share)
Epson Stylus 600 A4 Colour £234	
Epson Stylus 800 A4 Colour £351	
Epson Stylus Photo 6 Colour £387	
Epson Stylus 1520 A2Colour £704	
Epson Stylus 3000 A2Colour £1350	
CAMERAS...	ACCESSORIES...
Apple QuickTake 200 £328	Apple Design Speakers II £58
Kodak DC20 £163	Macally Joystick £38
	Macally Gamepad £26
	FlightStick Pro Joystick £80
	Gravis Firebird Joystick £99
	Jetstick £45
	Apple One Year On-Site Maintenance Warranty £18
SCANNER...	
UMAX Astra 600S - PhotoShop LE £199	LOTS MORE PERIPHERALS - CALL!

SOFTWARE

GRAPHICS SOFTWARE...	EDUCATION SOFTWARE...
Quark Xpress 3.3 £763	Galler's Encyclopedia £35
PageMaker 6.5 £504	Dorling Kindersley £26
Illustrator 7.0 £328	20th Century Chronicle £28
PhotoShop 4.0 £469	The Way Things Work 2.0 £26
KPI/MetaTool Actions £52	Encyc. of Space & The Universe £21
MetaTools Soap £41	Ultimate 3D Skeleton £27
KPI Bryce II £163	Ultimate Human Body 2.0 £27
KPI Gool £41	Virtual Reality - Cat, Bird, £21ea.
FreeHand 7.0 £363	Dinosaur Hunter or Earth Quest £26
Allen Skin Eyecandy 3.0 £89	Encyclopaedia of Science 2.0 £33
CorelDraw Suite Upgrade £116	World Reference Atlas £42ea.
	Think and Talk... £26ea.
	German, Italian, Spanish or French
	Reading Development... £18
	Series 1, 2, 3 or 4 £14
	Teach Yourself Calculus £28
	Music Central £33
	Thankful Things 3 £33
	LEISURE SOFTWARE...
	Acqua Soccer £47
	SIM City 2000 CD Collection £39
	Warcraft II £31
	3D Landscape 2 £43
	FA/18 Harriet 3.0 £28
	Torin's Passage £41
	Wing Commander IV £41
	Marathon Trilogy £41
	BOOKS - Full Range, Call for details
UTILITY SOFTWARE...	
Norton 3.5 £79	
After Dark 4.0 CD £19	
Adobe Acrobat 3 £187	
Dr Solomon's (with 1Yr Upl) £63	
RAM Doubler 2.0 £41	
Speed Doubler 2.0 £41	

BUSINESS FINANCE:

Weekly finance prices are exclusive of VAT and are based on 3 year fixed cost Apple Commercial Credit Lease for business users.

PERSONAL FINANCE:

Finance is also available for individuals visiting our showrooms and paying a minimum of 10% deposit.

There's even a...

'Deferred Payment Plan'

- It's easy to buy your Mac with a GH Personal Finance Option
- Ask for details of one to suit you
- Example... Pay 10% Deposit on a balance over £1200 and then pay nothing for 4 months (subject to status and £18 arrangement fee).
- Written details are available on request

harwood



GH 15TH ANNIVERSARY
1982-1997

We've been providing Commodore products since 1982 and today supply a range of 100% Motorola based systems including Blizzard and Cyberstorm along with video products and other peripherals...

01773 836781

PICK UP THE PHONE AND ORDER TODAY FOR DELIVERY TOMORROW

ALL PRICES INCLUDE VAT @ 17.5%



For your protection all Cards are fully Security Checked

OFFICIAL ORDERS...

We supply Central, Local Government and Education Departments along with Major PLCs

'FAST-FAX'...

on 01773 831040 for a Rapid Response to your Quotation or Order Requirements!

GH
GORDON HARWOOD
COMPUTERS

DEPT. CUA/5 • NEW STREET
ALFRETON • DERBYSHIRE
DE55 7BP
Tel: 01773 836781
FAX: 01773 831040
e-mail: info@ghc.co.uk

AT GH WE MAKE EVERYTHING EASY...

PHONE GH...
We welcome all major credit/debit cards with NO TRANSACTION SURCHARGES.

ORDERING BY POST OR FAX...

Please include your Name, Address and preferably daytime and/or evening phone or fax number with your requirements. If using your debit/credit card include its number and valid expiry dates (also issue number with Switch cards). Please make cheques (allow 7 days clearance), Drafts or P.O.s payable to... Gordon Harwood Computers Limited.

GH PRICES...

All UK and EC customers - VAT is included at the standard rate of 17.5% to all prices. UK overseas Armed Forces Personnel may be exempt VAT - please ask for details.

DELIVERY...

We offer prompt shipment with fully insured express delivery options throughout the UK, Europe and Worldwide at a modest cost. If ordering by mail, please call to confirm the appropriate delivery charges.

GH WARRANTY...

Manufacturers' standard warranties apply or, ask about GH's comprehensive extended options which are always recommended for professional users to minimise costly down time - details available on request.

ALL PRICES INCLUDE VAT

...and are shown for personal users only. Business users please ask for VAT Exclusive prices.



Why not visit our showroom and see a range of Macintosh products on demonstration...

AN EASY DRIVE FROM MOST AREAS.
We're open Mon to Sat - 9.00am until 5.00pm

PLEASE CALL TO CONFIRM AVAILABILITY BEFORE MAKING A LONG JOURNEY TO VISIT US.

Why Harwoods?

Gordon Harwood Computers was founded as a specialist Commodore dealer in 1982 and we're still supporting Amiga users today. We began supplying Macintosh systems in 1991 when it became clear that Commodore was failing to capitalise on the technological advantage it had. We needed to have products available that fulfilled the needs of our customers who were demanding...

- Systems with a future
- Systems with outstanding performance
- Systems with unsurpassed ease of use
- Systems without the problems and disadvantages associated with DOS/Windows, which still persist and trouble users even now.

Today we have grown to become one of the largest Apple Authorised Resellers in Europe. Our extensive product knowledge and solid support facilities emphasise our status as one of a select group of Apple Authorised Service Centres and accredited Apple Higher and Further Education Alliance Resellers.

CD-ROM Scene

Another Aminet CD, fonts for maniacs, and a multitude of games to choose from. Andrew Korn gives you his verdict...

Aminet 21

■ **Available from:** Weird Science, Q house, Troon way business park, Humberstone lane, Leicester LE4 9HA.

■ **Price:** £10.99 plus £1 p&p

Guess what, we're going to take a look at an Aminet disc. Surely this is boring by now.

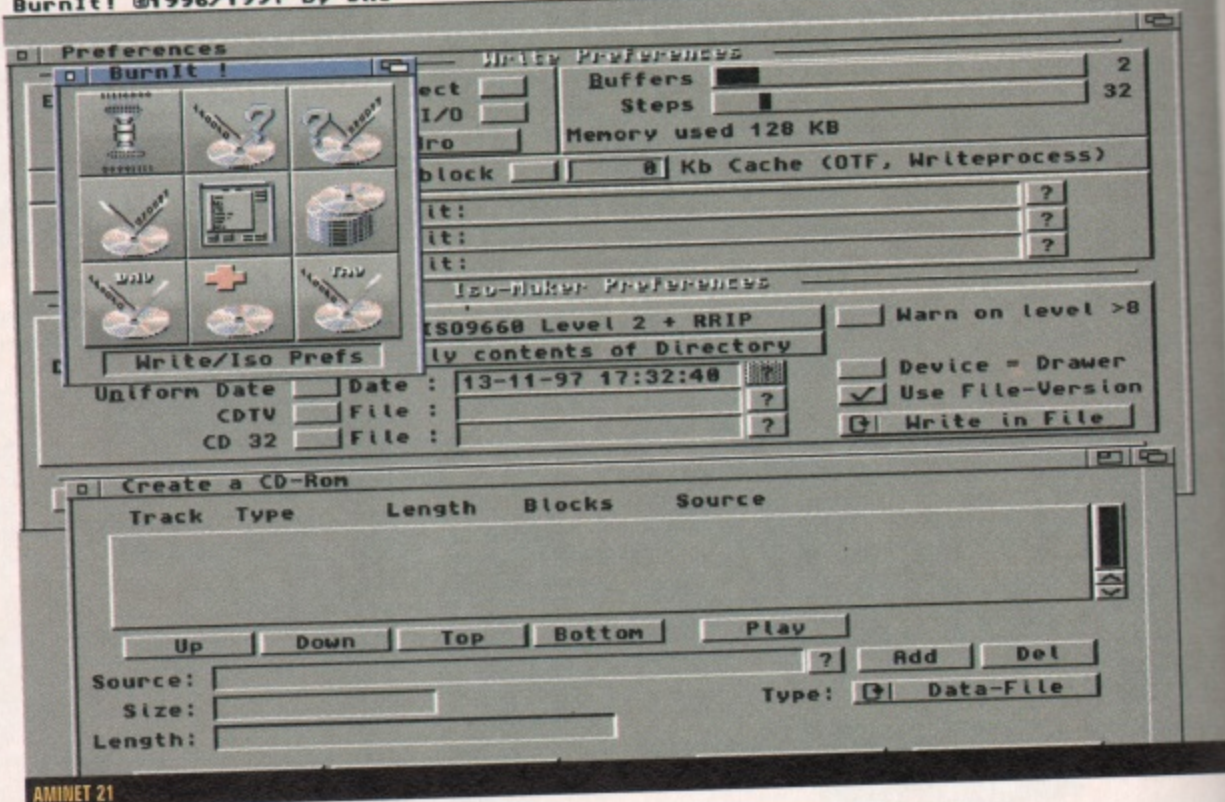
But no! Somehow the Aminet discs are still the top Amiga resource, still scaling the heights of the best sellers charts month in, month out. In years gone by, it was entirely obvious why this was the case, but with magazine coverdiscs aplenty and 20 previous Aminet discs, it's hard to believe they can still be such an essential purchase.

Sure, with all that software going straight onto the Aminet CDs, getting out one of the cheap subscriptions to the Aminet and having it posted through your door every month or so when it comes out is a way to get an unparalleled and exhaustive personal library of PD. On the other hand getting out a sub to CU Amiga CD edition gets you a library of software less completist but more selective.

Let's face it, once you have a dozen CDs full of software, you are not going to be short of programs to look through for at least a decade or two.

The lasting appeal of the Aminet CD-ROMs stems from the fact that they contain everything and make it very easy to get to it. The archive is stored in the form it is on the Internet, divided into directories and subdirectories according to the sort of thing it is. The software is stored in archive form, so it can, of course, be installed by hand via shell, Opus or similar. Alternatively you can access

BurnIt! ©1996/1997 by DnS



AMINET 21

it either through the supplied filer, an Opus 4/SID like twin lister program which allows you to copy, unpack, view etc, or through the brilliant powerguide index.

This is basically an Amiga guide which allows you to browse through lists of the software with short descriptions. Click on a short description and it displays a longer description to you, click on the name of the software and it will unarchive to the directory of your choice or execute from RAM, or if it is a picture, animation or music file then load an appropriate player and play it. If you want to have a free reign that's fine, but there is more organisation to it than that.

There is also the option to sort through lists of files according to what was downloaded the most. The pictures can be sorted through using a small thumbnail viewer package, there are selections of demos listed according to their compatibility and how highly the CD compiler rates them, and the mod collection can be accessed via author or via cross referenced style list.

Each mod is rated from 1 to 9 and there is even a nice shuffle play option. The layout of these discs has been polished and perfected over time; after all 20 previous discs certainly makes for a lot of prior experience.

So what about the content? Cast your eyes to the boxout and you'll get some idea

of what is available. As always, it is a mixed bag. Some isn't worth the CD space, other bits are pretty much indispensable. This one comes with all the latest patches that have been put up by commercial companies, all the latest versions of the big shareware utils, an almost endless collection of mods, demos and graphics, discmags and so on.

There are demos of OnEscapee, Trapped2, Flying high Trauma Zero and more in the games section, the latest Burn It, Picture Manager Pro and WildFire demos in the biz/demos drawer, and plenty more to keep you going. Another installation in the irrepressible Aminet series, what more need be said. **89%**

The Games Room

■ **Available from:** Epic Marketing, Epic House, 43 Akers Way, Swindon, Wilts, SN2 2NF. Tel: +44 (0)1793 514188

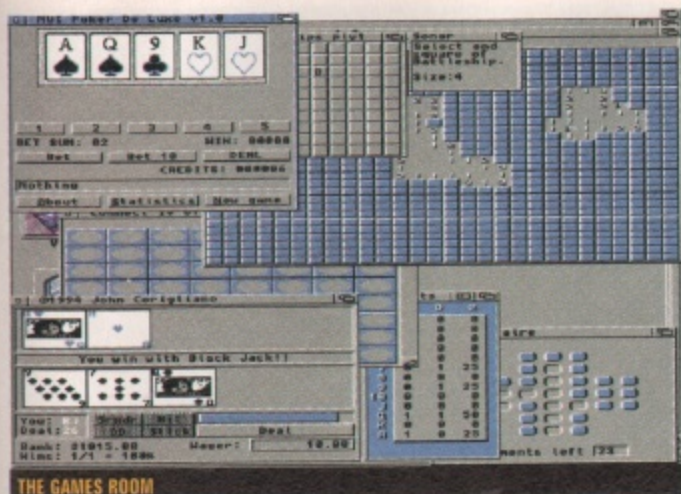
■ **Price:** £12.99 plus £1 p&p

Imagine my disgust when Epic sent me this monstrosity. Not only are there half a dozen different solitaire games, but there are about 40 assorted solitaire variants, Bridge games, Whists, Cribbages and so on. There is even the obligatory Klondike with



Where's all the software of Aminet 21?

biz	32MB
comm	30MB
demo	95MB
dev	19MB
disk	5MB
docs	32MB
game	124MB
gfx	45MB
hard	1MB
misc	32MB
mods	275MB
mus	19MB
pix	217MB
text	5MB
util	34MB



around 200 (count 'em!) cardsets, going from Achilles to X-men and taking in everything on the way – particularly if everything isn't wearing very much.

Don't like card games? OK, if that is your attitude, try the pub games drawer, with a few of those darts games, Kingpin, and a demo table from the excellent Slam Tilt Pinball game. Alternatively, the boardgames drawer has a good 30 odd games, various shades of chess, chequers, backgammon and so on. Tetris addicts steer well clear, there are over 60 variants here, enough to keep you unable to move from your computer for a few years, and even Mah Jong comes in 7 different flavours. The casino games and fruit machines are there for anyone odd enough to like playing fruit machines with no prizes, there are 15 Workbench games, about 30 puzzle games and a few odds and sods elsewhere.

This is a real grab bag of titles. There are a whole load of absolute Amos nightmares, but there are also some true classics. It can be real fun sorting through the disc to find the bad titles too, something like the execrable World Championship darts, although be prepared to reset your computer a lot, there are all too many games here which tediously refuse to quit.

The idea of The Games Room is not a new one, but it is certainly a very complete one of it's kind. It is a dual format CD with around 500 games evenly split between Amiga and Windows, many of which are bad, but some of which are rather excellent. If your idea of gaming begins and ends with fast action hi-res extravaganzas, then you're paying rather a lot for a coverdisc demo of an old pinball game, the only thing on the disc which comes close.

If you are after enough rainy day material to keep Noah happy, then there is no doubt that this provides. Don't expect to see a whole lot of brand new material here, it's mostly just the usual subject, but if you don't have a collection yet, this is going to be the best you are likely to find. **90%**



CD of the Month

Fontmania

■ **Available from:** Weird Science, Q house, Troon way business park, Humberstone lane, Leicester LE4 9HA.
■ **Price:** £9.99 plus £1 p&p.

Take a close look at a CUCD icon and you will see that the writing on it is a tasteful font, selected on a monthly basis from our limitless collection of colour fonts.

We wish. Actually finding a new colour font for the CD every month is a bit of an epic task. Anyone who does a lot of layout work, artwork, video titling or anything remotely similar, is going to some day run into a lack of font. Fonts are a bit like money, however much you have, it still isn't enough.

Oh sure, it's a bad idea to use more than 2, maybe 3 fonts in a layout, but one day inevitably you want to do something new, find some really lanky font, use a typeface with bullet holes in it or whatever. However big your fonts dir, that perfect font just inevitably won't be there. This is why the CD-ROM was invented.

There have been countless CD-ROMs full of fonts in the past, but there hasn't been one in a little while so Weird Science figured it was about time someone produced a single all encompassing font CD-ROM and have done with it.

Stick the CD in your drive, open the disc icon on Workbench and you get an empty window. There are a couple of text files there, but not even a file reader to view it on. One is a readme with a quick list of the drawers and how many fonts they have in them, the other is a full list of all the fonts, a monstrous 2Mb text file which should generally be avoided.

There are a total of 10,794 fonts on the

disc, which translates to something more like 3 or 4 thousand if you ignore the fonts which are repetitions in a different font format or ones you'll have difficulty persuading an Amiga to read.

So are the fonts any good, you ask? Hard to criticise the quality when you have them in this sort of number. The range of monochrome fonts is excellent and can't be faulted. If you want a font, it will probably be here.

The colour fonts did not fare quite so well, with a lot of them refusing to load into PPaint at all and finding fonts with such luxuries as lower case, numbers, or dare I be so demanding, punctuation, was hard. The IFF fonts aren't so easy to use but are often a better choice, and include the blue rose and gelignite collections.

The real lack on this disc is the indexing. Look in the near identical bitmap and intellifont directories and you will see nice IFF index files, but other than that there is a lot of sorting through to do. It would be nice if there was a single index of all the fonts on the CD, something which would be a little time consuming to do but would polish off the package perfectly.

You will probably end up copying the fonts that you really like onto your hard drive and then keep the disc aside for *special occasions* – but come those *special occasions* you will be cursing at the lack of an index.

The ideal would be a printed catalogue, but this is a very cheap CD. A catalogue on disc in a few ready to print formats would make this the unquestioned king of font collections, but at under a tenner you can't really go far wrong.

A best buy for font users. **90%**



THIS FONT IS
PURE CHEESE

IT IS ALSO ONLY IN
CAPS AND HAS NO
PUNCTUATION



and so on.
ondike with

Art Gallery

Are you a Digital Dali? Computer Carravagio? Send your pics to:
Art Gallery, CU Amiga, 37-39 Mill Harbour, Isle of Dogs, London E14 9TZ.

Temple by Paul Hanson

Picture
of the
Month



Paul Hanson created this image by superimposing a scanned photograph on a Lightwave render. He used ImageFX to do the superimposition and used the radial star effect to produce the glow on the leg. The edges of the figure suffers from Jpeg artifacts, but it isn't clear whether this is a problem with the original scan or something introduced when Paul jpegged the pic to send in.

Put 'em up by Steven Greenfield



©1997 Polymorph

A great bit of photo manipulation with a good sense of humour. The fairy figure would blend in better if the lightsourcing matched that of the main image. This is the trick of really believable superimposing.

Modern Times by Jordan Cadby



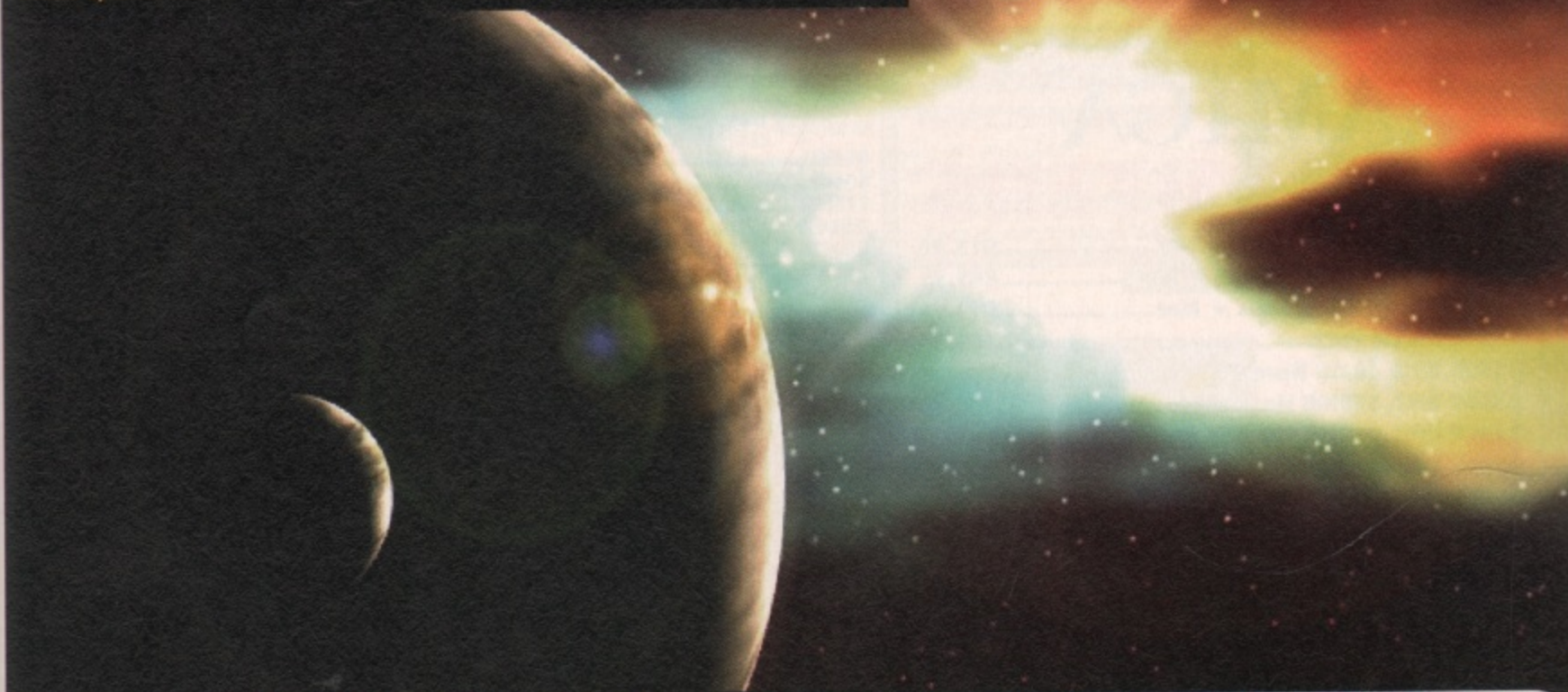
Jordan is a bit of a Cinema 4D fan, and a bit of a Babylon 5 fan too, judging by the other images he sent. This one gets in for being a bit unusual!

Stormbot by Peter Devos



Peter sent in this alternative view of the scene printed last month. The compositioning and lighting is a real improvement.

Nebula by Girish Nath



This simple image from Art Gallery favourite Girish Nath was done in Lightwave with the colour map for the nebula done in Photogenics. Look at the small moon catching the edges of the sunlight as it comes out of eclipse – this highlight balances out the image perfectly and works with the lensflare to make a strong diagonal composition.

AMIGA REPAIRS

COMPUTERS AND MONITORS

WHILE-U-WAIT!!!

Analogic is a recommended repair centre in the UK by Amiga Technologies

Attention Dealers

Ring/Fax Now for best trade prices and terms on Repairs, Spares, Floppy Drives, Hard Drives, CD Rom Drives and Memory Upgrades.

- FAST TURNAROUND
- 120 DAYS WARRANTY ON ALL REPAIRS
- £10.00 EXTRA CHARGE FOR WHILE-U-WAIT SERVICE
- PICK UP & DELIVERY CHARGES £7.05 EACH WAY
- A1500/A2000/A4000.....£QUOTATION

A500, A500+ & A600

£39.95

A1200

£49.95

Please call for a better than price match deal

MEMORY UPGRADES

A500	Upgrade to 1 Meg	A500+	Upgrade to 2 Meg	UNBEATABLE PRICES
A500	£13.95	A500+	£19.95	
A600	Upgrade to 2 Meg			Please call for latest best price
A600	£19.95			
A1200	0Mb	4Mb	8Mb	
A1200	£39.00	£49.00	£65.00	

INTERNAL FLOPPY DRIVES

A500/A500+/A600/A1200 **£24.95**

APOLLO ACCELERATORS

1230 Lite.....£69.95
1230/50.....£119.95
1240/25.....£139.95
1240/40.....£199.95
1260/50.....£279.95

Heavy discount on SIMM prices when bought with an accelerator
4Mb.....£15.00
8Mb.....£29.00
16Mb.....£59.00
32Mb.....£120.00

SCSI CD-ROMS

Quad Speed SCSI + Squirrel.....£139.00
IDE CD-ROMS
Hitachi 16 max.....£79.95

MODEMS

BABT APPROVED + NCOMM SOFTWARE + CABLES
33.6k....£79.00

LOLA GENLOCKS

L1500.....£169.95
L2000S.....£349.95

SIMPLY THE BEST AFTER-SALES SERVICE
GUARANTEED SAME DAY DESPATCH (Subject to availability)

NEW

TRADE IN YOUR AMIGA FOR A PC

WE BUY DEAD OR ALIVE A1200 AND A4000

RING US FOR A REASONABLE OFFER FOR YOUR A1200/A4000 COMPUTER OR JUST MOTHERBOARD IN ANY CONDITION

NEW

AMIGA COMPUTERS

A500 With PSU + Mouse + Mat.....£79.95
A500+ With PSU + Mouse + Mat.....£89.95
A600 With PSU + Mouse + Mat.....£99.95
A1200 Magic Pack.....£249.95
A1200 With 80MB Hard Drive.....£279.95
A1200 With 170MB Hard Drive.....£319.95
A1200 With 810MB Hard Drive.....£379.95
A1200 With 2.1gig Hard Drive.....£469.95
A2000 (Available)Call
A4000 (Available)Call

- * **HEAVY DISCOUNTS ON MEMORY UPGRADES AND ACCELERATORS WHEN BOUGHT WITH A1200**
- * **EXTENDED WARRANTY UP TO 5 YEARS AVAILABLE ON ALL A1200 COMPUTERS**

2.5" IDE HARD DRIVES

All hard drives are preformatted, partitioned with Work Bench loaded and include cable & software

60MB£55.00 540MB£129.00
80MB£65.00 810MB£159.00
170MB£69.00 1.4 gig£199.00
260MB£86.00 2.1 gig£299.00
420MB£120.00

2.5" IDE Cable & Software (If bought separately).....£9.95

3.5" IDE HARD DRIVES

2.1 gig£159.00 4.2 gig£249.00

Please call for other capacities

CHIPS ❖ SPARES ❖ ACCESSORIES

ROM 2.04£18.00 A600/A1200 KEYBOARD£29.95
ROM 2.05£19.00 SCART LEAD£14.95
A500/A500+ KEYBOARD£29.95 MONITOR CABLE£14.95
AMIGA MOUSE + MAT£14.95 SQUIRREL INTERFACE£50.00
A500/A600/A1200 CIA£12.00 SURF SQUIRREL£89.00
A500/A600/A1200/POWER SUPPLY£24.95 A520 MODULATOR.....£18.00
A1500/A2000/A3000/A4000 POWER SUPPLYCALL

- * All chips are available ex-stock
- * Please call for any chip or spare not listed here

ANALOGIC Analogic Computers (UK) Ltd
Unit 6, Ashway Centre, Elm Crescent,
Kingston-upon-Thames, Surrey KT2 6HH

Open Mon-Fri 8-00am-5-30pm, Sat 9-00am-5-00pm Fax: 0181 541 4671

Tel: 0181 546 9575



* All prices include VAT * All prices & specifications subject to change without notice * Fixed charge for repair does not include disk drive/keyboard
* We reserve the right to refuse any repair * P&P charges £3-50 by Royal Mail or £7-05 for courier * Please allow 5 working days for cheque clearance
* All sales/repairs are only as per our terms and conditions, copy available on request.





As ever Workshop continues to educate, enlighten and bring goodwill to all men... In actual fact the only thing Workshop can't help you do is stuff the turkey!!

84 Imagine 4.0

In the final lesson of Imagine, John Kennedy shows how to produce animations that rival all the biggest Sci-Fi Blockbusters.

88 C Programming

Jason Hulane waxes lyrical about the fine art of programming, and in particular the world of the Universal IFF Library.

92 Surf's Up

NetGod rants about webmasters, Miami 3 beta released, WebFX 1.7, RC5-56 cracked and a new PowerPC accelerator competition.

93 Surf of the Month

This month Mat Bettinson checks out some Amiga web sites to see what's hot and what's not. In the process he uncovers a new Amiga...

94 Wired World

Mat Bettinson revisits the setting up of a web page, this time giving away some shortcut methods.

96 Sound Lab

Resident techno-fiend Tony returns to Sound Lab and sheds some light on the THC-00 Resonator.

98 DTP

Already on lesson 9 in the ProPage tutorial, and Larry Hickmott gives more tips on how to incorporate DrawStudio Lite.

104 Q & A

Need assistance on Amiga related topics, here our panel of Einsteins do their best to provide the answers.

107 A to Z

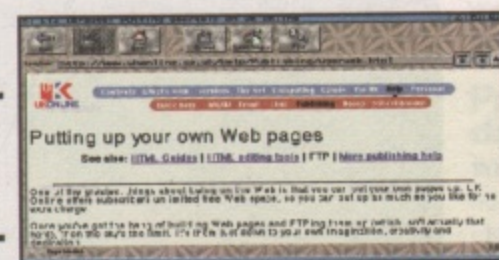
Amiga to Zorro, and just about everything in between. This time the letter D sits in the hotseat...



Imagine 4.0 p84



DTP p98



Wired World p94

Regulars

91 Back Issues

Missed an issue? Shame on you! All is not lost though, as you can probably find the offending item right here.

108 Backchat

Comments, general information, criticism, suggestions. Here's a chance to get your name up there in print.

111 Subscriptions

Life is just great when you take out subscription to CU Amiga, the UK's best selling Amiga magazine. Oh, such halcyon days.

112 Points of View

With soap boxes underfoot, CU Amigas staff and contributors let the world know just what they think about stuff. Don't mess.

Workshop Amiga



Imagine 4.0

We've looked at many aspects of using Imagine over the past few years (yes, years!) but we've yet to look at the ultimate goal: creating a lengthy animation.

There are plenty of tricks to pass on when it comes to rendering your own version of the Star Wars Trilogy or Jurassic Park 3, and I hope that by the end of this you'll be tempted to have a play.

Before we get started, it's important that you have the right hardware. There is little point trying to create a long animation if you can't store it, in other words, a hard drive is essential. I'd go further than that though: a fast hard drive is essential. Larger animations will have to be spooled from disk, that is read and displayed in a continuous process, and so a fast disk is essential. This means that a large capacity 3.5" disk will be required. EIDE drives are fast, but a SCSI2 system will be faster too, which you use depends on your Amiga.

It almost goes without saying that a fast Amiga is a good idea, and a 68030 or better processor is a must. Memory is important too, not only for rendering complicated scenes, but for improving the results for playback. Memory is quite cheap at the moment, and a 16Mb Amiga is a good start. Plan it in advance.

More trite advice, but it is important. If you are planning an animation which has many different scenes, camera viewpoints and objects, put your thoughts down on paper. Your objective is usually to portray a story, so you need a beginning, middle and ending.

Your opening scene might be dramatic, or low key, that's up to you of course, but you might consider a subtitle to set the scene. Adding some frames which consist

of a few lines of text, X-Files style, can be easily done with a paint package.

The best way to plan things is to sketch your ideas down on paper. Don't worry if you can't draw, because no-one else need see these scribbles. This is your storyboard, and you should include details such as camera angles, the objects included in the shots and the length of time you want to the

shot to last. You are effectively acting as the Director of your own film, and no Director is going to start shooting until he or she knows exactly what they want to achieve.

At this stage you might want to think about whether you are going to include any live action scenes in your animation. With a genlock, you can add rendered graphics to a 3D scene. In fact, a superb trick is to render your spaceship, using the genlock transparency colour for the main window. Set up your camera, and then load and display the rendering scene, with careful tweaking you can dress up and appear to be inside the cabin of your spaceship, as the live view from the camera will only pass through the window.

This is an adaptation of an age-old technique: before computers came along, special effects people would paint elaborate images onto glass, and place this in front of the camera, filming actors behind. Watch 2001: A Space Odyssey for the seminal example.

Use other computers to speed up rendering

If your Amiga isn't the fastest rendering machine in the world, and

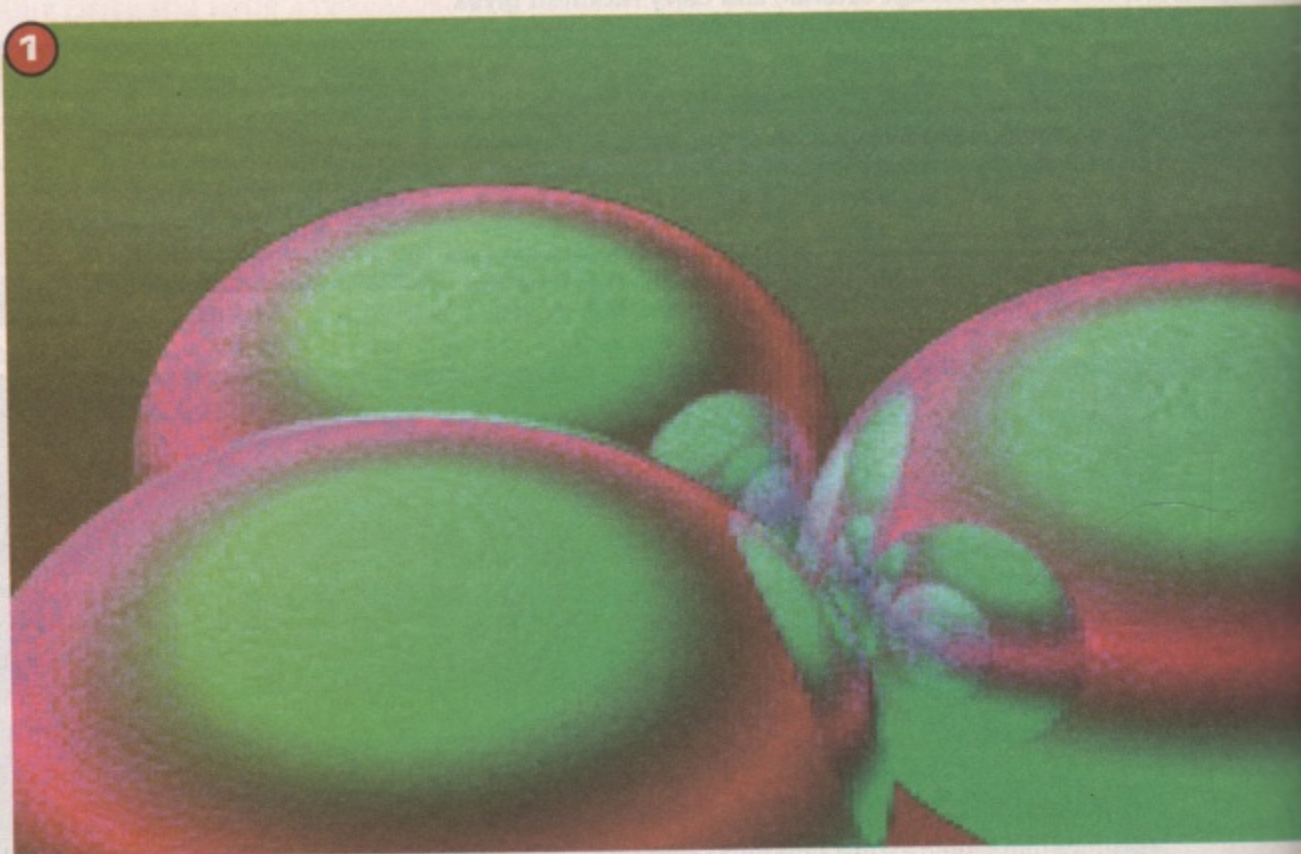
you haven't got the spare cash to buy a 68060 board, try making use of your friends systems. Supply them with an Imagine project, and ask them to render it in their spare moments. Obviously you will have tested the images thoroughly, by both rendering a wireframe or other simpler version, and one or two full, high-quality images.

If one of your friends has a PC, ask them nicely too, Imagine is available for this platform, and even an entry level PC can render 10 to 20 times faster than a 68040 based Amiga. (see pics 1&2)

Designing models: different models for different scenes

You've spent hours, days even, designing your superb alien attack craft. It really looks the business, with carefully drawn brushmaps and minute detailing on external exhaust ports. When you place it in your scene for rendering, it appears in a block of the screen sixteen pixels square. Ever wondered if your time was well spent?

This is why planning is so important. If you are going to use a model only in the distance as a tiny little



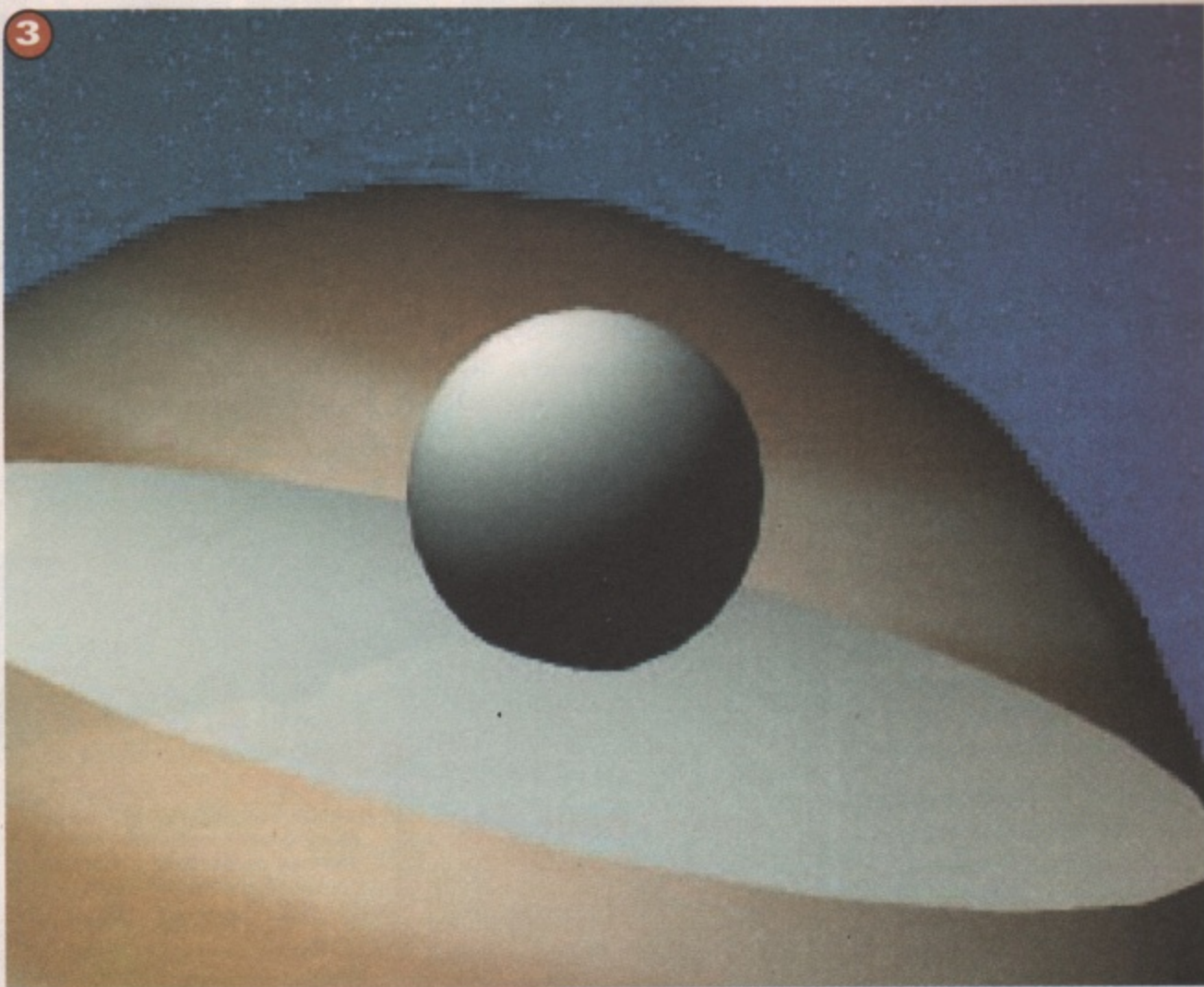
spec, then for goodness sake don't waste time adding detail which will never be seen. Your alien ship might have looked exactly the same if it was a collection of three rectangles given a shade of grey.

Not only have you wasted your time designing the object, but you are wasting rendering time too: Imagine takes up more memory and resources with detailed objects, and needs to load and store all the brushmaps for example.

What happens if you want to create a model which appears both as a close up, and as a distant object? Use two models of course. Create a simple one for long shots, and a more detailed one for close-ups. If you are planning an extreme close-up when only a portion of the object is visible, then design a model with only the necessary parts. If your scene calls for a close-up view of a porthole, don't spend hours on the engines and cargo bays which aren't visible. (see pics 3&4)

This is an extremely simple technique to use, as you can create different models and save them as different names: SHIPCLOSE, SHIPFAR for example. However, this can also be very useful to speed up your test rendering.

There are times, when you must render your animation to see if you have the movement right. However, you don't need to render a 100% accurate scene. Sometimes a wire-frame preview will do perfectly well, but other times only a solid object will do.



In these situations you can make use of the fact that Imagine makes it easy to change the object used in a scene, even after it has been loaded, positioned and stored in the Stage Editor. Here's how: imagine you have a scene involving a spaceship, which you want to fly past the

camera. Create two objects, one with minimum detail, and the other your fully-fledged, no expense spared, model. Name them SHIPHIGH and SHIPLOW. It's important that both objects are exactly the same size, so construct one using the other.

Set up your scene as you would normally, using the SHIPHIGH object. Now, go to the Action Editor and locate the Actor which is your ship. If you click in the blue bar, you will be able to change the name of the object to SHIPLOW. Everything else will remain the same: the position, the paths, the special effects, but your test renders will happen a great deal more quickly. (see pic 5)

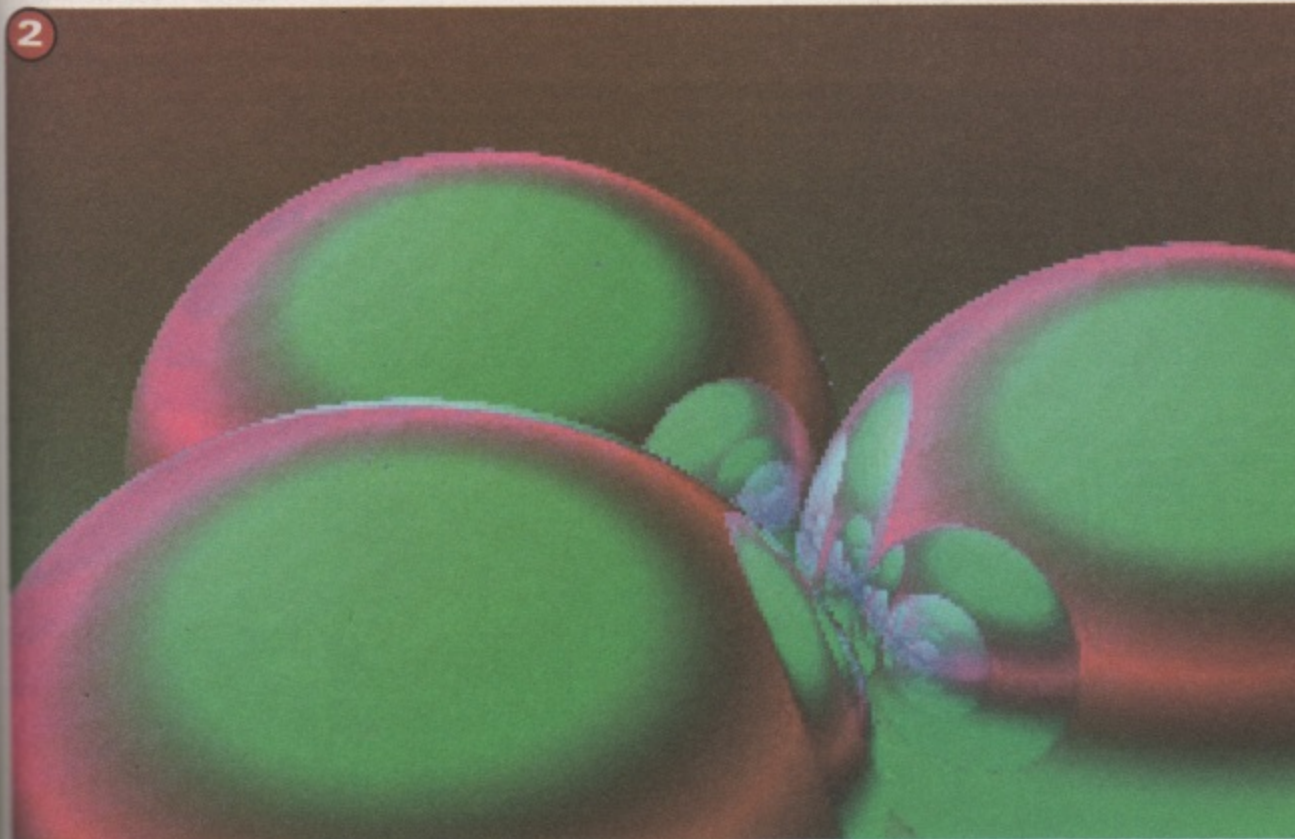
Pre-rendered backdrops

We've already discussed in detail how to use pre-rendered backdrops to speed up rendering, so there is no point going over it again. Remember that a long animation is the perfect opportunity to use this technique, and don't be afraid to experiment with backdrops which are actually scanned or digitised from live sources instead.

Some of the NASA Hubble Space Telescope images are perfect for space background, and even better, totally royalty free. You'll find them on the Internet and on various CD-ROM collections.

Calculating times carefully

Timing is essential in an animation, and you have to have a feel for how



long your animation will last. Try to picture the movement in your head, and judge how long the scene will last. I always tend to underestimate the length of time a scene should last, so I automatically double the length.

Remember that you have to take into account the number of frames you will be replaying a second. In an ideal world you will be displaying 25 frames per second. However, this figure depends on many factors: the screen mode, the speed of the Amiga, whether the image is playing back from memory or whether it is being spooled from hard disk. You will have to experiment to find the frame rate you are using.

If, for sake of argument, it's ten frames per second, then a quick burst of mental arithmetic leads us to the conclusion that a twenty second clip will require 200 frames of animation.

Playing & Recording your animation

The end result of all your work will be a huge collection of IFF files. Each frame will need to be collated into a single (or maybe several) ANIM files. There are plenty of software packages around to do this, my favourite is Main Actor Broadcast. (see pic 6)

Playing back your animation isn't always easy. A very long animation will invariably not fit into memory at once, and so you'll need to find some other way of playing it. The simplest option is to play what you can, and record each segment to videotape as you go.

Unfortunately most video recorders aren't great at stopping and starting whilst recording, even

in Pause mode. They have a nasty habit of rewinding slightly, and if you aren't careful your two second clip will be eaten by the editing process.

If you have a fast Amiga you should be able to spool the animation from hard drive fast enough to look convincing. As I've said, this will depend on the screen mode used, but a program such as Viewtek does an excellent job.

This is especially true if your ani-

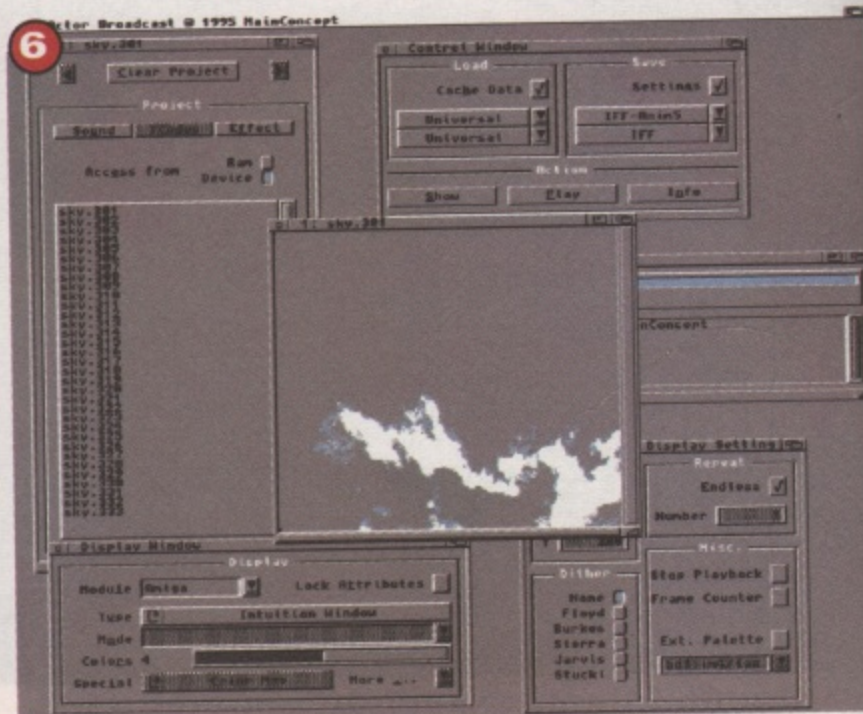
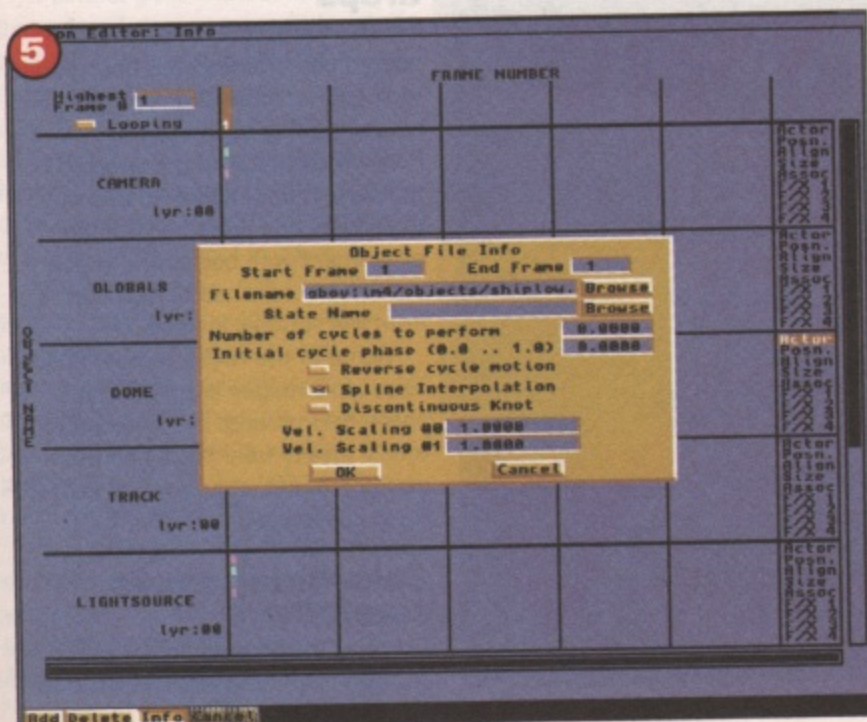
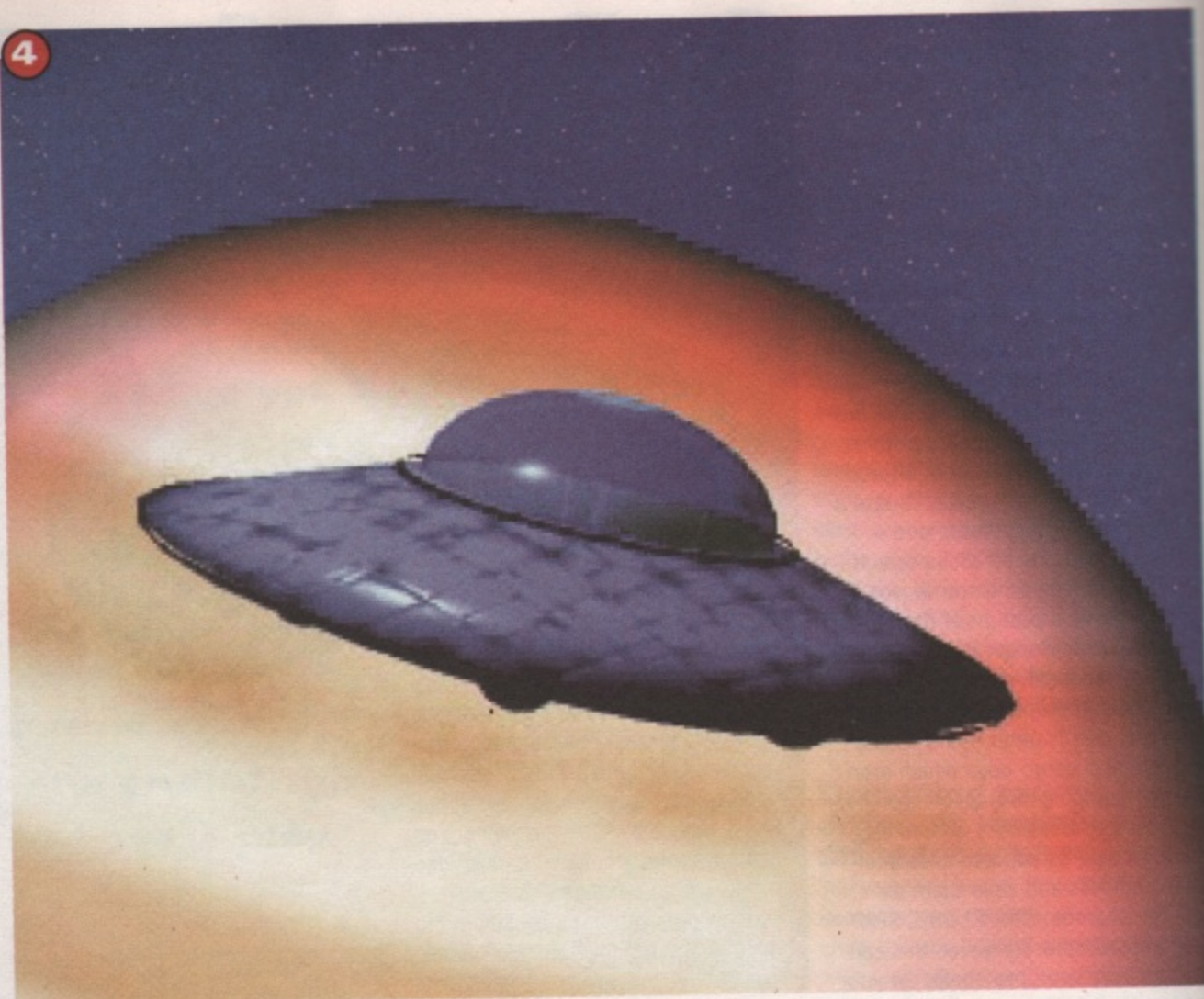
mation is converted from ANIM5 to ANIM7 format first. If you are very lucky, you might have or know someone with a VLAB Motion or other real-time animation system.

These packages use hardware video compression to capture and replay animations, and with one of these you can edit your final film and then play it all back in one go directly to video tape. There are similar systems on the Mac and PC if you should need to go that route.

That brings us to the end of our seemingly never-ending look at Imagine. I hope you've enjoyed it as much as I have, and that you'll forgive the mention of the dreaded PC.

Imagine is one of the all-time great pieces of Amiga software, and I doubt that I will ever make full use of all of its features. If you want to contact me with specific questions on Imagine, please visit my web site at: www.sticky.net

John Kennedy



White Knight Technology



AMIGA & Desktop Video Specialists
FREEPOST ANG6387, WARE, HERTS, SG11 1YA

Phone
**01920
822 321**
9.30 - 5.30
Mon - Fri

Fax **01920
822 302**

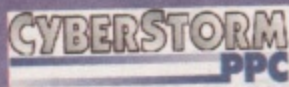
E mail
**White_Knight_Tech
@CompuServe.Com**

Next Day Delivery From Just £ 5.00

WE ACCEPT
Mastercard
Visa, Delta
and Switch
2.5% Surcharge
on Credit cards.
Not Switch / Delta

All Prices Include VAT @ 17.5%

UK Authorised Distributor For PHASE 5 DIGITAL PRODUCTS



68k Series Accelerators
For A3000 / A4000



CYBERSTORM MK3 NEW
060 50MHz, Ultra-Wide SCSI-3
onboard **Lower Price £ 499**

For A1200 Only



BLIZZARD 1260 & 1230-IV

68060, 50MHz **£ 319**
68030, 50MHz **£ 94**
SCSI Controller **£ 65**
FPU for 1230-IV **£ 41**

NEW PPC Accelerators

For A1500 & A2000



Expected Release Date 12/97
Onboard Ultra-Wide SCSI-3,
Socket For CyberVision PPC

150MHz PPC 604e & SCSI-3
with 68060, 50MHz **£ 739**
with 68040, 40MHz **£ 579**

180MHz PPC 604e & SCSI-3
with 68060, 50MHz **£ 819**
with 68040, 40MHz **£ 659**

200MHz PPC 604e & SCSI-3
with 68060, 50MHz **£ 899**
with 68040, 40MHz **£ 739**

Also available without 040/060 and as an
upgrade for Blizzard 2040 / 2060 owners



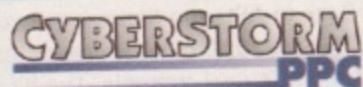
Details to be announced. Call



24-Bit Graphics Card

CYBERVISION 64/3D £ 145
CV 64/3D Scandoubler £ 65
CV 64/3D MPEG Decoder £ 115

NEW PPC Accelerators
For A3000/T & A4000/T



Probably The UK's
Largest Supplier Of
CyberStorm PPC's
If excellent service and support
means more than a few pounds
discount - then talk to us now!



Onboard Ultra-Wide SCSI-3,
Socket For CyberVision PPC

150MHz PPC 604e & SCSI-3
with 68060, 50MHz **£ 725**
with 68040, 40MHz **£ 565**

180MHz PPC 604e & SCSI-3
with 68060, 50MHz **£ 795**
with 68040, 40MHz **£ 629**

200MHz PPC 604e & SCSI-3
with 68060, 50MHz **£ 879**
with 68040, 40MHz **£ 719**

Phase 5 PPC Accelerators are also available
without a 68K CPU, for existing 030, 040 or 060
accelerator owners. Call us for further details.
If you already have a Cyberstorm or Blizzard,
please call us for special upgrade prices.

150MHz PPC 604e & SCSI-3

No 68k Series CPU **£ 489**

180MHz PPC 604e & SCSI-3

No 68k Series CPU **£ 559**

200MHz PPC 604e & SCSI-3

No 68k Series CPU **£ 645**

For A1200 Only



Expected Release Date 12/97
Upgrades available from Blizzard 1230/ 40/60

The Blizzard 603e & 603e+ are identical,
except the 603e takes a 50MHz 68030, but
603e+ takes a 40MHz 040, or 50MHz 060.

Blizzard 603e / e+ Power Board

160Mhz without 68K **£ 289**

200Mhz without 68K **£ 379**

250Mhz without 68K **£ 449**

Prices including 030/040/060 CPU's were
unavailable at time of printing - please call

SCSI Hard Drives

3.5" Bare, Ultra / SCSI-3

All New, Lower Prices

2.1Gb Medalist Pro / Capricorn **£ 199**
4.3Gb Capricorn (5400 rpm) **£ 299**
4.3Gb Scorpion (7200 rpm) **£ 499**
4.5Gb Barracuda (7200 rpm) **£ 489**
9.1Gb Scorpion (7200 rpm) **£ 769**
Ultra-Wide IBM Scorpion Drives for
CyberStorm PPC - at no extra cost!

IDE Hard Drives

3.5" Bare, For A4000

These drives are NOT suitable for A1200

1.6Gb E-IDE **£ 155**
2.1Gb E-IDE **£ 165**
2.5Gb E-IDE **£ 170**
3.1Gb E-IDE **£ 210**
4.0Gb E-IDE **£ 230**

IDE Hard Drives

2.5" Bare, For A1200

1.4Gb E-IDE **£ 169**
1.8Gb E-IDE **£ 189**
Cable, S/W & Screws **£ 10**
Only when purchasing drive !!

CDROM Drives (Bare)

Internal Fitting - NOT for A1200

12 x Speed SCSI-2 **£ 115**
SCSI-2 CD Writers **£ 299**
16 x Speed ATAPI/IDE **£ 75**
24 x Speed ATAPI/IDE **£ 85**

Cartridge Drives (SCSI)

SyJet 1.5Gb Ext. + Cable **£ 375**
SyJet 1.5Gb Int. + Cable **£ 285**
SyJet 1.5Gb Cartridges (x 3) **£ 245**
ZIP 100Mb Ext. + Cable & Term **£ 135**
ZIP 100Mb NEW Internal **£ 135**
ZIP 100Mb Disks (x 6) **£ 75**
JAZ 1Gb Ext. + Cable & Term **£ 375**
JAZ 1Gb Internal 3.5" version **£ 285**
JAZ Disks (x 3) **£ 245**
EZ Flyer 230Mb Ext. + Cable **£ 145**
EZ Flyer 230Mb Disks (x3) **£ 70**

ALL DRIVES SUPPLIED WITH ONE DISK

Networking

HYDRA Zorro Ethernet **£ 159**
Ariadne Zorro Ethernet **£ 149**
A1200 PCMCIA Ethernet **£ 149**

Memory SIMMS

8Mb, 72 pin, 60ns **£ 29**
16Mb, 72 pin, 60ns **£ 45**
32Mb, 72 pin, 60ns **£ 89**
64Mb, 72 pin, 60ns **£ 299**



Genlocks

LOLA 2000 SVHS & VHS **£ 349**
LOLA 1500 VHS Only **£ 179**



NEPTUN As Sirius, but without
audio, RGB & Chroma Keyer. **£ 529**

AMIGA 4000T

With 040/25, 6Mb, NO HD

£ 1,179

Without CPU, 6Mb, NO HD

£ 1,049

Add Cyberstorm PPC, Drive & RAM
Configured FREE - If Required

Monitors

17" Microvitec (M/Sync) **£ 425**
17" Hi-Res SVGA **£ 379**
15" Hi-Res SVGA **£ 199**
14" Hi-Res SVGA **£ 165**
14" 1084S Refurbished **£ 159**

Amiga Software

ART EFFECT 2 **£ 149**
AMIBACK 2 Backup S/W **£ 25**
MULTIMEDIA EXPERIENCE **£ 40**
TURBOCALC 3.5 S/sheet **£ 25**
INFONEXUS 2 File Manager **£ 15**
WORDWORTH V5 **£ 20**
PERSONAL PAINT 6.4 **£ 10**
PHOTOGENICS 2 (CDROM) **£ 39**
CLARISSA Professional V3 **£ 159**
ADORAGE V2.5 **£ 89**
MONUMENT DESIGNER V3 **£ 219**
MONUMENT CREATIVE CD **£ 59**
ANIMAGE V1 **£ 89**
ADORAGE MAGIC Moviestop **£ 69**
ADORAGE MAGIC Casablanca **£ 59**

Specifications ?

If you need technical details
on any of our products, call us
on **01920 822 321** weekdays.

White Knight Technology
are renown for excellent product
knowledge, service & honesty.

We Are Still Supporting The
AMIGA !

Please Call To Verify Price &
Availability before sending an order.
Minimum Order Value £ 50 + P&P
Many prices subject to exchange rate
E & O E - 17/11/97

Amiga C Programming

This month we're going to be visiting a couple of good libraries... but not for books.

One day, many years ago, some bright spark hit upon the idea of fashioning a round piece of stone (or wood) and rolling it along the ground. We look back now and feel very grateful that they shared this idea with other people, or else our cars would look very silly.

That was a strange way to start this tutorial, I'll grant you, but the point is this: re-inventing the wheel is an activity that programmers are very prone to. When you're just starting out and learning how things fit together, it's a good idea to start from scratch and make all the mistakes others have made many times before, but once you're up and running it's much more efficient to re-use other people's hard work.

Can I have a file?

Take a boring old file requester, for example. To make one of those out of the basic components of gadgets and directory lists would take quite



a long time. And on the way you'd probably make a number of mistakes, and this would generally detract from the main purpose of your real program.

Luckily, your Amiga comes supplied with a number of handy routines that take a lot of the drudgery out of programming common idioms. We've seen this already in the simplified menu creation offered by the GadTools library, but this month we're going to take a look at another standard library: ASL (which probably stands for 'Application Standard Look' or something equally silly, since Commodore seem to have avoided a definition in their documentation!). This library makes it very simple to create standard file, font and (in later versions) screen mode requesters.

The use we'll put it to is to create a load and (eventually) a save file requester. But what good are such things to our program? What do we have that could be loaded or

saved? The answer is, of course, the nice picture you can paint. So, for the second part of this tutorial, we'll take a look at Christian Weber's 'Universal IFF Library', which is very old, but almost a standard library (an archive is supplied on the disks).

Back to ASL, the first example on the disks is "asl0.c" which builds on last month's final example. The dif-

ferences are the addition of code to open the ASL library and an extra "Load" menu item, with corresponding code (the "load()" function) to react to this new item (see Example 1). Don't expect too much, yet, as this first example doesn't do anything with the requested file.

If you study the example and the documentation for the ASL library,

Example 1

```
/* Open an ASL load file requester */
void load()
{
    struct FileRequester* freq;
    if(freq = (struct
FileRequester*)AllocAslRequest(ASL_FileRequest, NULL))
    {
        if(AslRequestTags(freq,
ASLFR_TitleText,    "Load
File",
ASLFR_Window,      drawwin,
ASLFR_Flags1,
FRF_DOPATTERNS,
ASLFR_InitialPattern, "#?.iff",
TAG_DONE))
        {
            /* Directory is in freq->rf_Dir, file in freq->rf_File */
        }
        /* ..else request was cancelled */
        FreeAslRequest(freq);
    }
}
```

Example 2

```
int createBitmap()
{
    /* The MEMF_CLEAR flag is vital, since it zeroes the
allocated memory. */
    /* Thus the pointers in the bitmap will be NULL, if
we don't manage to */
    /* allocate them properly. */
    if(bitmap = AllocMem(sizeof(struct BitMap), MEMF_PUB-
LIC | MEMF_CLEAR))
    {
        int plane;
        InitBitMap(bitmap, scr->BitMap.Depth, scr->Width,
scr->Height);
        for(plane = 0; plane < scr->BitMap.Depth; plane++)
        {
            bitmap->Planes[plane] = AllocRaster(scr->Width,
scr->Height);
            if(bitmap->Planes[plane] == NULL)
                return FALSE;
        }
        /* If we get here, we succeeded. */
        return TRUE;
    }
    else
        return FALSE;
}

void freeBitmap()
{
    if(bitmap)
    {
        int plane;
        for(plane = 0; plane < scr->BitMap.Depth; plane++)
        {
            if(bitmap->Planes[plane])
                FreeRaster(bitmap->Planes[plane], scr->Width,
scr->Height);
        }
        FreeMem(bitmap, sizeof(struct BitMap));
        bitmap = NULL;
    }
}
```


Example 3

```

char filename[MAXFILENAME];
/* Create complete filename from ASL's dir and file */
strcpy(filename, loadreq->rf_Dir);
if(AddPart(filename, loadreq->rf_File, MAXFILENAME))
{
    IFFL_HANDLE handle;
    /* Try to open the IFF file */
    if(handle = IFFL_OpenIFF(filename, IFFL_MODE_READ))
    {
        LONG count;
        UWORD colortable[256];
        /* Get colour information and change screen
        colours */
        count = IFFL_GetColorTab(handle, colortable);
        LoadRGB4(&(scr->ViewPort), colortable, count);
        /* If we can load the picture, update window's
        display */
        if(IFFL_DecodePic(handle, bitmap))
            CopySBitMap(drawwin->WLayer);
        else
            printf("Error: could not decode IFF picture\n");
        IFFL_CloseIFF(handle);
    }
    else
        printf("Error: could not open IFF file\n");
}
else
    printf("Error: could not make filename\n");

```

you'll notice that the "ASLFR_Flags1" tag seems a little out of place. This raises a rather thorny issue, because the reason that this tag is used instead of the dedicated tag "ASLFR_DoPatterns" is to retain backwards compatibility. In these tutorials it's been assumed that you're running at least AmigaOS 2.0 (ie; KickStart V37). However, in AmigaOS 2.1 (V38) the ASL library was radically overhauled with a host of new tags (and a new naming scheme). But, the V37 ASL library just ignores the tags it doesn't recognise (i.e. all these new ones), so to get the same behaviour in V37

we have had to use the method that works in V37...

A bird? A plane?

To load and save a pictures we need to make a rather significant change to our existing setup. The key issue is taking control of the data that is displayed. Normally, Intuition is responsible for managing the graphical part of the window (ie; the bitmap) and we can't get hold of this directly. So, what we need is a different kind of window, one which

Example 4

```

char filename[MAXFILENAME];
/* Create complete filename from ASL's dir and file */
strcpy(filename, savereq->rf_Dir);
if(AddPart(filename, savereq->rf_File, MAXFILENAME))
{
    /* Make sure our bitmap is the same as the display
    */
    SyncSBitMap(drawwin->WLayer);
    /* Try saving our bitmap, using the screen's colours
    */
    if(IFFL_SaveBitMap(filename, bitmap,
        scr->ViewPort.ColorMap->ColorTable,
        IFFL_COMPR_BYTERUN1) == 0)
        printf("Error: could not write IFF picture\n");
}
else
    printf("Error: could not make filename\n");

```

allows us to manipulate its bitmap: a SuperBitMap window. But, this change is not just supplying a new flag to "OpenWindowTags()". We must also create a bitmap of our own (see Example 2), and let the window use it.

Once we have our SuperBitMap window, we can think about loading and saving. The code snippet for loading a picture (after a successful ASL file request) is shown in Example 3. The functions starting with "IFFL_" come from the "iff.library", which needs to be in your "LIBS:" directory. To access the functions we also need the "iff.h" header file. (In fact, we're actually using a slightly modified version of "iff.h" that's a bit more compatible with StormC.)

The key parts of the code are the creation of a complete filename from the results of the ASL file

IFF

The Interchange File Format, designed by Electronic Arts way back in 1985. It's basically a format for structuring data such as pictures, text, sound files, or just about anything. The word 'IFF' does not really describe the kind of data, but it is often taken to mean ILBM data (ie, Interleaved BitMap, or a picture) in IFF format.

request (using the DOS function "AddPart()"), the extraction of colour information from the file (using "IFFL_GetColorTab()"), the loading of the screen colours (using "LoadRGB4()"), and the updating of the display once the image is loaded. This last bit is the trickiest, requiring us to use "CopySBitMap()" on the window's layer. This is only needed when you make a direct change to a SuperBitMap window's bitmap (like we have here), and not when you use the normal (RastPort) drawing functions.

The save mechanism requests a file in the same way as the load did, except we've used "ASLFR_Flags1" to indicate that we'd like a save mode requester and we've suggested a suitable initial filename. The real meat, though, is the saving code (see Example 4). This must first make sure that our bitmap is synchronised with the display. The function "SyncSBitMap()" basically gets Intuition to write any buffered changes to the SuperBitMap window's bitmap. Then "IFFL_SaveBitMap()" can be used to write this bitmap to disk (as an IFF

Library

As we've seen before, a library is a collection of functions. More specifically, the Amiga makes use of 'shared' libraries, which are the files ending in ".library" that you find (usually) in your "LIBS:" directory. These collections of functions are 'shared' because each program that uses them does not use its own copy, but shares a single global copy (and this gives a great saving on memory). In fact, multiple programs can use the same library function at the same time.



▲ Here's one I made earlier...

ILBM), with our current screen colours as the picture's colour information.

Tidying up

The way the toggling of the tool window is handled via a state variable ("opentw") is a good general concept, but it's actually a slight bit of overkill in this example. A better way to do things is to use a different approach to message handling.

Rather than get a message, act on it and then reply to it, we can (in this example, at least) copy the relevant pieces of a message and then reply to it straight away. The next example ("asl1a.c") uses this new technique, where we are now free to close the tool window in the message handling code.

The one subtlety to spot is the extra condition on the "while" loop for handling the tool window's messages. This checks that the tool window is still open, and so stops the loop after any message that causes the tool window to close.

We are going to make use of this new flexible style of message handling in a more spectacular way later, but for now we'll tackle one big and one small stylistic problem. The latter is the fact that the requesters 'forget' the directory cho-

sen by the user the previous time they were opened (ie; the load requester always starts in the current directory).

This can be cured by moving the tags which initialise aspects of the requester into the creation call (ie; out of "AslRequestTags()" and into "AllocAslRequest()"). This change has been made in the next example, which now has a whole directory to itself (see "loadsave.c" in the sub-directory "asl2").

So, what are all those files in "asl2"? Well, as we saw in a slightly contrived way before, it's a good idea to break up your program into modules. That's exactly what's happened here: the "asl1a.c" is broken up into a number of modules.

The key concept is to restrict access to all those global variables, and make only certain bits of code able to change their value. For example, the "loadreq" and "savereq" variables have now been localised to the module "loadsave.c" (the "static" keyword means that they are visible only to code in that file, but otherwise they're just like global variables).

Read access to the variables is granted by "getXXX()" functions, so the code that needs to use, say, the window pointers still can.

SuperBitMap window

A window where you supply a bitmap for the window to use. The benefit of this is you can then access the complete contents of the window as a bitmap. Care is needed to keep Intuition informed of changes you make directly to the bitmap (by using "CopySBitMap()"), and to get Intuition to update the bitmap when you want to read it (by using "SyncSBitMap()"). For technical reasons, these functions work on the layer associated with a window, rather than on the window.

Another point of interest is the structure of the header files (the ".h" file corresponding to each code, or ".c", file). In a time-honoured way, the prototypes are wrapped in an "#ifndef" that prevents the compiler 'seeing' the contents twice, even if this file is included multiple times (directly or indirectly) when compiling a module.

Take your time to study the other effects that this modularisation has had. You might also notice the "Smakefile", which is used by SAS/C to compile multiple-file projects like this. (If you've got both SAS/C and StormC, take care to delete the ".o" files when you swap compiler!)

Exercise

To keep you busy until next month, there's one more example (the sub-directory "asl3"). The new functionality is the dynamic changing of the

whole GUI (screen and all) and the most significant changes are in "loadsave.c". The display should now change to the most appropriate settings for the picture to be loaded, in terms of resolution, depth and size.

We've almost got a paint package on our hands, so we've come a long way in only a few months. Next month we'll look at adding a bit of ARexx into the equation. See you then. ■

Jason Hulance

Wheel

Piece of material (usually stone or wood) in the shape of a circle. Useful for making things move along the ground easily. Worldwide patent has expired so the design is freely available.

Next Month

CU **AMIGA**
M A G A Z I N E

Myst: review and CD demo!

Just slipping through the net for this issue's deadline, word came from ClickBOOM that Myst has now finally been finished! We'll have the definitive review of the game we exclusively previewed in the December issue, along with a real treat for CD-ROM owners: an exclusive playable demo on the cover CD so you can see for yourselves whether it really is the ultimate adventure. We can't wait!

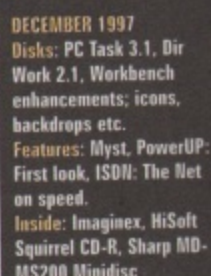
Amiga Forever

Sacrilege or the potential saviour of the Amiga? Amiga Forever is Cloanto's plan to bring the wonders of the Amiga to a wider audience than ever before: by releasing the official Amiga emulator for the PC. We'll be taking a good look at it next month and asking the people who matter some pertinent questions. Evidence of Gateway selling the Amiga up the river, or a shift away from hardware dependency?



New Amiga clones explored

We'll be testing out Micronik's new Amiga clones, specifically their exciting new A1500 (not a clone of the Commodore A1500) by the way) and also highlighting the developments elsewhere as a range of third party clones hit the market.



Please allow 28 days for fulfilment upon receipt of request. All orders subject to availability.



Net God speaks

You know what annoys me? Sometimes it seems every web page I go to has 50 of those stupid 'get x now' icons, 'this site is best viewed with xxx' blurb or even 'this page must be viewed in 800 x 600 trucolour'. None of those people who make these pages understand the concept of the web. It's a standard, it is not a proprietary file format for one particular program.

Web pages are not supposed to offer the ability to present something pixel perfect, it's a mark up language, not an image format! I don't want to use your favourite browser, I have my own! I don't want to use that resolution, I have my own! It's just a goddamn web site so stop telling me what I should run and how to look at it or run the risk of me spending less time there!

Lose the stupid get x now icons. Just how many times do you think I've seen get the latest PC web browser icons? I don't need to be told what to use Amiga wise either. Hell, the RC5 home page even rants on about how wonderful AWeb is and how it's broken on other browsers.

Fix your HTML then! This is a disturbing trend creeping into Amiga web pages, the quicker we nip it in the bud, the better.

Surf's Up!

Another goats horn overflowing with fruit and corn (that's a cornucopia by the way) of Internet sites.

Miami 3 public beta

The Amiga's premier TCP/IP software package prepares for version 3 with a public beta containing most of the features. The betam dubbed version 2.9x, is available from the author's home page at <http://www.nordicglobal.com>. One new feature for Miami 3 includes



the removal of the user interface to separate plug in modules.

The public beta still only comes with an MUI module but this can be completely ejected when the interface is not in use, thereby saving a small amount of memory if no other MUI applications are running. A GTLayout/Gadtools version will be available in the final 3.0 release. The beta retains the 1 hour limit in unregistered form so it too can be trialed for free.

Miami 3 has also grown the ability to communicate through a SOCKS based firewall. The main use for this would be Miami connected to a PC based network to gain access to the Internet. The SOCKS support would allow most Amiga Internet applications to work transparently although our initial tests failed to get this working adequately on the beta version.

The other utilities bundled with Miami have also seen minor improvements, better modem con-



trol and individual database entries can be disabled. Miami 3.0 does require a new keyfile version which can be ordered over the Internet as an upgrade. Alternatively new users can purchase Miami 3 outright from Active Software for £23 on 01325-352260.

WebFX 1.7 released

WebFX 1.7 has been released. This is a shareware package which uses ImageFX 2.1+ to create animations, crossfades and shadow graphics for your own web graphics.

This can enhance the look of your web page a great deal, previously the Amiga was lacking in software to perform this task. WebFX uses ImageFX to process the images into single frames and it then uses WhirlGIF, the command line Unix port program to generate AnimGIFs which can be used on the web. You can find the 209K odd WebFX on the Aminet in the comm/www/WebFX.lha path or see <http://www.intercom.it/~fsoft/webfx.html> for the home page.

RC5-56 cracked

The Amiga team in the Bovine RC5 effort made it to 7th place by the time the winning key was found.

Given that the team started much later than many teams, this was a startling feat. The Amiga team made 3rd position several times in the

daily block upload rates. Now that the 56-key has been cracked, there's risable support for continuing with the 64-bit key cracking effort.

Unfortunately there's 256 times as much key space to explorer so it's not anticipated that a key would be found for years to come. However, if you're willing to throw some spare CPU power at the problem and watch the Amiga teams position in the stats, check out the Amiga RC5 home page at <http://www.cistron.nl/~ttavoly/rc5>

Schatztruhe PPC competition

The world's largest distributor of commercial Amiga software, Steffen Ossowski's Schatztruhe, announced a new monthly competition.

In order to have a chance of winning, one must find key letters written throughout Schatztruhe's web site written in orange. These will fit together somehow to spell out a common Amiga term. Also on the web site is a form for submitting the competition entries and each month someone will win a PowerPC accelerator from phase 5.

The PowerPC accelerator will be for the A1200, 2000 or 3/4000 depending on the winners preference. Schatztruhe's Website is at <http://www.schatztruhe.de>, happy hunting! ■

Mat Bettinson



The Amiga RC5 Team effort



Surf of the Month

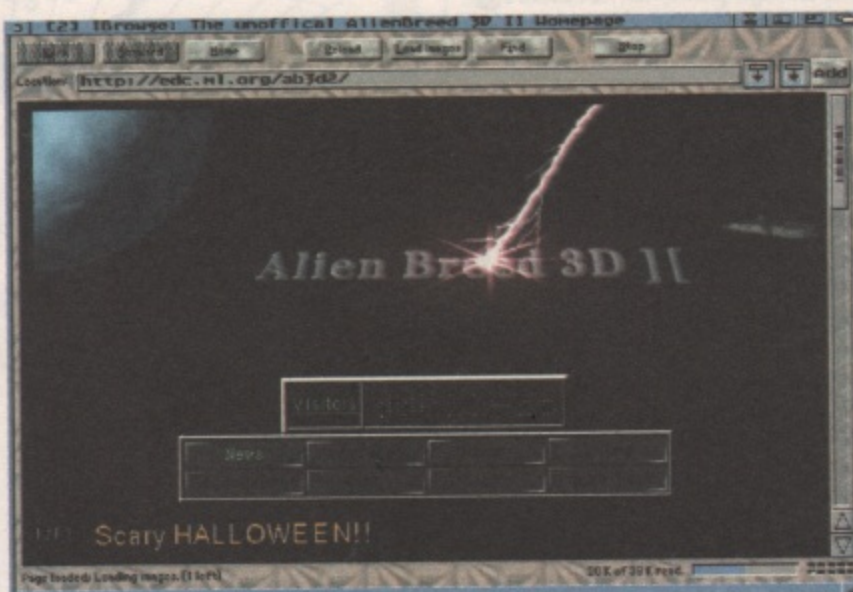
Mat Bettinson and his pet hamster take to the Net to deliver another bunch of Amiga-biased Websites.

Amiga Org has been around for some time now. It has a similar mandate to CUCUG's Amiga Web Directory in that it's all things to all Amiga users. There's news, events, FAQs, links and shareware. Amiga.org is a little spartan compared to the AWD but it's on the up. Drop in and check out the events and news. There's often different stories and events, updated a little quicker than on AWD.

Over at the unofficial Alien Breed 3D 2 home page, there's plenty of tit-bits for Team 17's ambitious doom clone. There's news about a forthcoming version of AB3D2 that will support graphics boards and non-AGA machines. Naturally enough this new version will be based on the source code released on CU Amiga's cover CD some months back. There's custom levels, screenshots and tips also to be found on this comprehensive page. Well worth a visit for AB3D2 fans.

Every time the Amiga is mentioned in the press, chances are the article will appear on the Honourable Mention web site. Scoping these out gives a good indication on the Amigas profile in the popular press, computing or otherwise. There's also quite a few buried facts and stories not usually found elsewhere.

Via an obscure link from this site, I found the secret plan Gateway have to incorporate the Amiga tech-



▲ ... news of a forthcoming AB3D2 version which supports AGA machines...

nology into a mass market application. The new affiliated company, Instantech, implements a solid waterproof build in two colour schemes for their new Amiga. It will be offered under the Standard Colour Price and High Fashion Colour Price schemes. That's right, the Amiga Whirlpool Bath costs only \$956.89 in the basic colour scheme and includes curb-side delivery. You can scope it all out via their Bath Warehouse home page and choose your next model of Amiga and get clean at the same time.

Seriously, on the official bonafide Amiga front, Amiga Technologies home page has had something of a revamp. It now sports professional

looking graphic design.

The spinning juggler globes are certainly on theme too. The news section announces noteworthy events and the new Beta section has the latest unsupported beta versions of some Workbench components such as Setpatch and the FastFileSystem. The latter designed to break the 4Gb barrier on hard drives. Well done Amiga Technologies for improving the site to one we can be proud of.

If you live near a US airforce base in Europe or otherwise have some interest in what the USAF gets up to in Europe, they have a comprehensive web site called the United States Air Forces in Europe. All the

URL's

<http://www.amiga.org>
The Amiga Org home page
edc.ml.org/ab3d2/
The Alien Breed 3D 2 home page
<http://www.rust.net/~mignash/hm.html>
Honourable Mention web page
<http://www.instantech.com/bath/zzz6760/>
The Amiga Whirlpool Bath Warehouse
<http://www.amiga.de>
Amiga Technologies official home page
<http://www.usafe.af.mil/>
United States Air Forces in Europe

usual news and features on the subject can be found plus there's even details of USAF charter flight mechanisms should you decide to hire an A10 Tank Buster to sort out the morning traffic.

If you spend too much time on the web and have forgotten a loved one's special occasion, you can make amends with Interflora's superb site. Here you can browse the types of flower arrangements on offer. Choose your selection, purchase and have your flowers delivered anywhere in the world via the local delivery agencies. The prices aren't cheap but if you can't drag yourself away from the web browser, this might save valuable time pilfering the neighbours roses. ■

Mat Bettinson



▲ The all-new, all-singin', all-dancin' Amiga Technologies page.



▲ The Bath Warehouse home page helps you choose your next Amiga.

Wired World

This month we revisit the setting up of a web page. This time doing it the quick and easy way, as an alternative to our previously in-depth HTML tutorial. We continue to get requests to document setting up a web page, despite the lengthy HTML Wired World tutorials of the past.

Accordingly, here's the quick and easy way to get your say on the web with a different approach from that of the HTML tutorial. I still believe it's a bad idea for Amiga users to be completely isolated from HTML code but it's time we recruited a little help to take the drudgery out of it.

A brief tour around the Aminet comm/www drawer reveals a top little program called Webplug, you can find this at any Aminet mirror in path comm/www/webplug125.lha, of course it's also in the magazine drawer of the cover CD. Webplug, put basically, is a MUI based text editor that has a bunch of functions built in for adding the common HTML codes.

As you may know, HTML stands for Hyper Text Markup Language and its these codes that control how web pages look. This isn't as hard as programming, these are simply codes contained in <> symbols embedded in a text file.

Insert Webplug

After installing Web plug and running it, we're faced with a web browser looking program with a row of buttons. Let's leap in the deep and hit the menu option functions/header. Another window appears, all you need to do is type in a title for your first web page.

Make sure the add <BODY> is ticked too. Now press Insert.

What you see is the most basic required code for a web site. Similar to programming, you may notice that there are some of the 'tags'

with '<>' symbols around them which are 'nested'.

For example, <HTML> is at the start and end of the code. The </HTML> at the end tells us that it's time to stop the <HTML> document. Inside this, we have our whole page nested inside.

Inside the <HEAD> for header, we have the <TITLE> of the document. At the end of the title is </TITLE> and at the end of the <HEAD> is </HEAD> and so on, and so forth. It's a simple pattern and one that is important and must be obeyed.

A couple more words about HTML terminology; <TAG> is a called a tag, if there is anything else inside the tag, it's called an attribute. For example <TAG attribute=value>. The tag sets basic command where the attribute is an option for that tag which can be set with a value.

There can be multiple attributes and they depend on which tag is being used. Some attributes work on multiple tags.

Just the basics 'mam

In the prior long running HTML tutorial, we covered most of the tags in detail and how to make them work. In this quick and easy guide to getting a web page up on the net, we'll only cover the basics.

It's up to you to get back issues of CU Amiga with the Wired World HTML tutorials or buy a book on HTML, of which there are a great deal at just about any good book store. Back to our page so far. We have a basic web page, notice there is a blank line between the <BODY> and </BODY> we need to insert all the contents for our web page inbetween here. The </BODY> and </HTML> will always be at the very bottom of the page.

Insert some text here, it might be a good idea to keep some space between it and the body tags to make it clear where your contents are. We need to configure WebPlug to know about your browser. Select the menu Prefs/WebPlug, here press on the pop up gadget for BrowserLink and pick a .link file that matches the Browser you own/use.

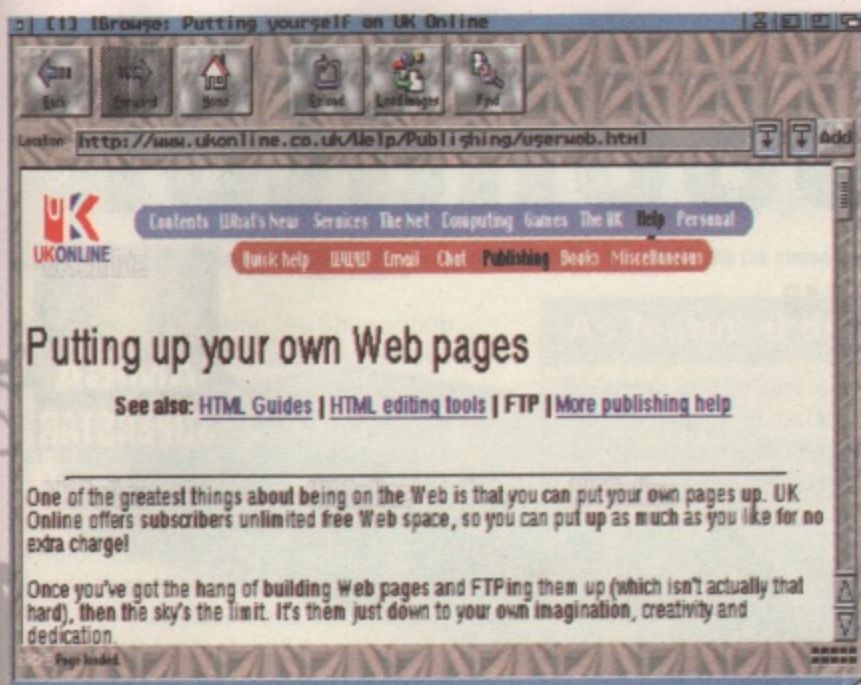
These files can be found in the BrowserLink directory where you installed WebPlug. Next, select the full path to your browser executable and stick this in the Run browser box. Save your settings.

Since you've most likely moved your web browser to another screen, you can use MUI's settings to also move WebPlug to that screen. Try reading the MUI documentation if you don't know how to do it. Select Save As HTML on the Project menu and pick a place on your drive. Name your file testing.html.

To run your browser, you can select Run Browser from the Browser menu. Now select Send to Browser from the Browser menu again.



▲ Configuring AmFTP to log into the web server. From here we can upload our web pages.



▲ UKOnline's pages about setting up your web pages would be a good place to start.

Our first web page!

You should see your very first web page appear in your web browser, hooray!

You'll notice that if you put any returns in your text, they won't have done a thing and the text will continue on a line until it hits the edge of the browser. The point of HTML is that it tells browsers how to make text look so if we want a return, we need to add some HTML to do it.

Now we're going to get to the cool stuff. Highlight some of your text and press Format button or select the Functions/Format menu option. Double click on the top line with `` in it. A window will appear, click on Use size and move the slider to 6. Close the window. Now, drag the `` line to the main WebPlug window.

Wow, now we have a `` tag surrounding the text you highlighted, save and send to browser. Look, we've made the font huge!

It's time to change the look of the page dramatically. Delete the `<BODY>` tag and leaving the cursor there, press the background button or select Functions/background from the menu.

In this window, uncheck the add `</BODY>` checkbox. Click on BGColor checkbox, press the popup and pick a colour. Do the same for the Text checkbox. Now press Insert. Save, send to browser. We've just changed the background colour and the text colour. The next two most important features of a web pages. Images and links.

To create an image, you'll need to have your image in the GIF format. You can use something like PPaint

What to do with your pages

It's one thing having a web page and a couple of pictures on your hard drive but how do you get them onto the Internet. Well you'll need an account with an Internet Service Provider of course.

Last month we announced a free trial for CU Amiga readers with UK Online readers. For these people it would be a good idea to check out their documentation at

<http://www.ukonline.co.uk/Help/Publishing>. If you have an account with another ISP, you'll need to ask them how to upload your web site. Generally if your pages work off disk and the HTML and images are in the same drawer, all you need to do is to rename the main page to index.html and upload all of the files to an FTP server. That means you'll need an FTP client such as AmFTP. UK Online customers will already have AmFTP as part of the Netconnect Lite package.

For UK Online, you would configure the FTP client to connect to the site web.ukonline.co.uk and set your username and password to the same as you use to log in to the Net. You should be free to select all your web files and press upload. Your web site would then appear at <http://web.ukonline.co.uk/yourusername/>!

or Image Studio to convert format. Save the picture in the same place as your testing.html file is.

Put the cursor somewhere in the body and press the picture button. Select your image and type in a brief description of the picture in the Alt text box. Always check the Use size button when using this window. Now press Insert. Close window. Save. Send to Browser. Voila, a picture in our web page!

A tip here is that if you want text to flow to the left or right of the image, use the Align cycle gadget and pick left or right. If left, the image will be on the left and text will be free to flow to the right of the image. Your text will need to come after the picture or even your picture tag can be in the middle!

If you want to stop text from flowing around the picture after a time. Place the cursor where you

want to stop and double click on `
` - Force CR in the Format window. Cycle the gadget to Clear all and drag the `
` tag over to the window.

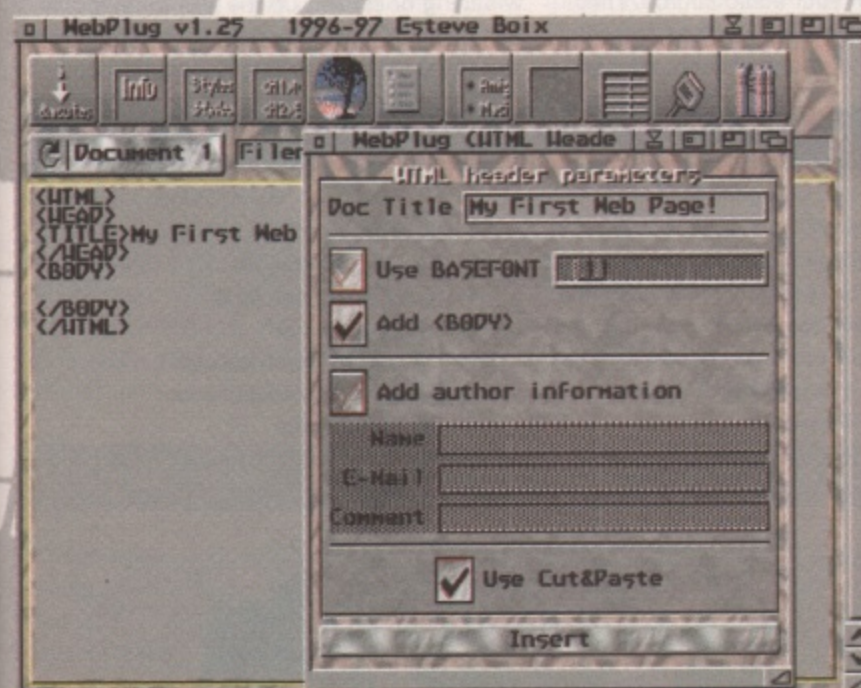
No home page is complete without a link to your favourite Amiga Magazine. WebPlug is a little flakey in this area so you're going to have to type it by hand:

```
<A HREF="http://www.cu-
amiga.co.uk">CU Amiga
Magazine</A>
```

The text 'CU Amiga Magazine' will be underlined and pressing on this in your web page will take them to the page listed in the HREF attribute. In this case it's the URL of CU Online of course.

Experimentation from here on is the key, happy HTMLing!

Mat Bettinson



▲ WebPlug makes creating web pages a breeze.



▲ Opening WebPlug on our browser screen shows what the results will look like

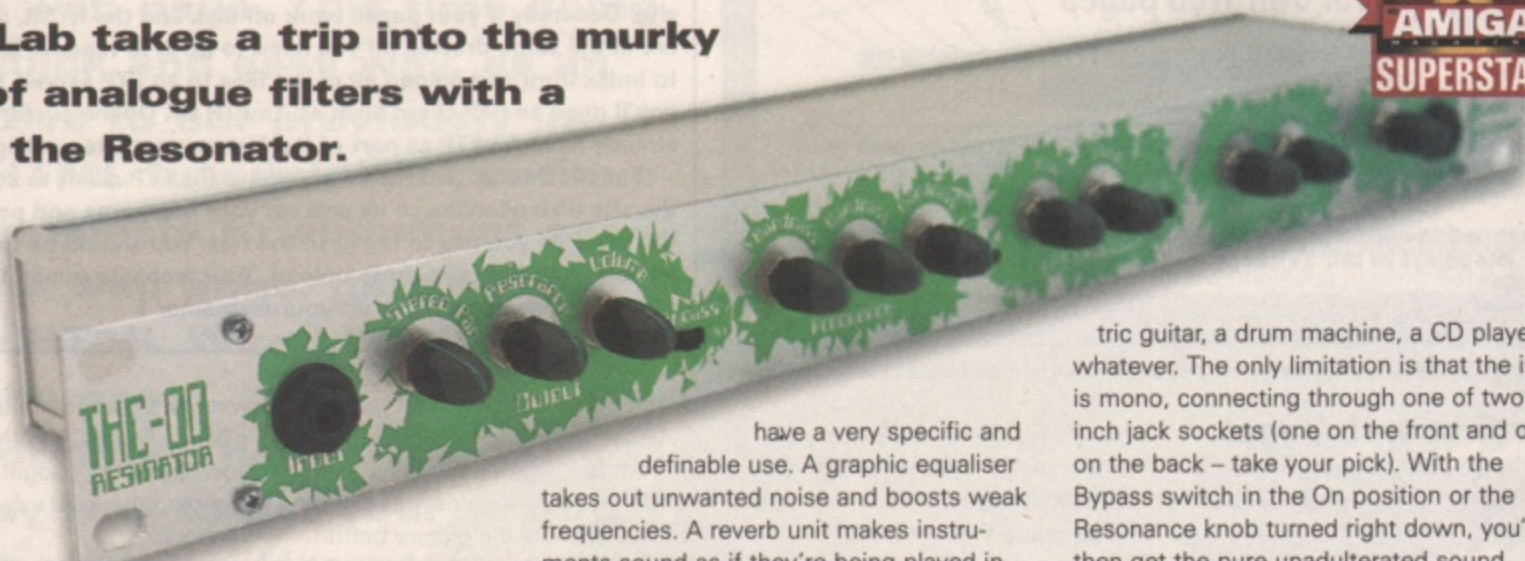
THC-00 Resonator

■ Price: £169 ■ Supplier: Turnkey Audio ☎ 0171 379 5148

Sound Lab takes a trip into the murky world of analogue filters with a look at the Resonator.



► Bucking the trend of most rackmount units, the Resonator comes with bright green print on a space-age aluminium casing.



How many things could you buy for £169 that are capable of totally revitalising your Amiga music set-up? A cheap reverb unit maybe? Fine, but hardly revolutionary... Perhaps a budget MIDI sound module with a selection of pianos and flutes for you to play with? Nah. What you really want is a big fat filter bank!

The THC-00 Resonator is just that, a bank of big fat filters. It's an analogue sound processor which uses the kind of filters and oscillators that those classic analogue synths like the TB303 and Moogs are based on. Actually, it uses the same circuits as the Korg PS series, such as the PS-3100. However, unlike a synth, on its own it won't make a sound. First you need to feed it an audio signal which you can then bend, twist, squeeze and squelch as you see fit.

Most bits of music production hardware

have a very specific and definable use. A graphic equaliser takes out unwanted noise and boosts weak frequencies. A reverb unit makes instruments sound as if they're being played in real life settings. A compressor/limiter offers better control over recording levels. However, the Resonator does its thing purely for the hell of it. There's no sensible reasoning behind what it does, and frankly, there's nothing sensible about what it does at all. On those grounds it's scored a point in my book already.

How it works

For anyone who's not strictly au fait with analogue synth technology, fathoming the myteries of the front panel controls could be a bit of a challenge, although the 'manual' has a fairly good but very brief crack at explaining it all (it's just a piece of A4 card folded to make two pages). Now it's my turn to have a go then...

It all starts with your audio source. That could be anything you like, such as one of your Amiga audio outputs, a synth, an elec-

tric guitar, a drum machine, a CD player or whatever. The only limitation is that the input is mono, connecting through one of two 1/4 inch jack sockets (one on the front and one on the back - take your pick). With the Bypass switch in the On position or the Resonance knob turned right down, you'll then get the pure unadulterated sound source coming from the stereo audio outputs.

The first stage in processing your sound is to switch Bypass to Off and turn up the Resonance knob. In effect this controls the mix of the original and the processed sound that's passed to the stereo outputs. Now you can set the amount of action that will occur in each of the three Bandpass Filter frequencies. This three-filter arrangement is what gives the Resonator its stereo output capability. The first and third filters can be panned in various degrees to either side of the stereo image, while filter two is locked in the centre. When combined with the other controls you can get some wild stereo effects. The Stereo Pan knob (number two on the annotation below) has the effect of widening or closing up the stereo image. In fact you can get the outputs from filters one and three to switch sides completely from

A guided tour

The aluminium case of the Resonator is a standard 1U rack-mount affair, which means it's got a front panel measuring 48 x 5cm. It's unusually shallow for a rack-mount box at just 8.5cm deep. There are five connections on the back panel (see the picture at the top of the opposite page):

- Audio input (mono 1/4 inch jack socket)
 - Audio output (dual mono 1/4 jack sockets)
 - Power input (12v AC external power supply)
 - Modulation input (mono 1/4 inch jack socket)
- And here's a tour of the front

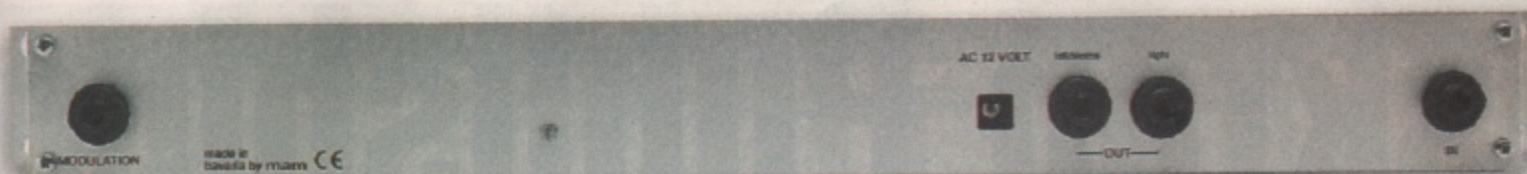
panel.

1. Audio input
2. Stereo pan
3. Resonance level
4. Volume
5. Bypass switch
6. Bandpass 1
7. Bandpass 2
8. Bandpass 3

9. LFO indicator LED

10. LFO modulation rate
11. LFO modulation depth
12. Mode selector
13. Envelope modulation depth
14. Envelope modulation decay
15. Polarity switch
16. Manual modulation depth
17. Modulation input





▲ The back panel features alternative inputs for modulation and audio, along with the stereo output and a socket for the external power supply.

left to right by cranking the Stereo knob from one extreme to the other. So not only does the Resonator totally mash up your sound, it gives space and movement to the flattest of mono sources.

Next up is the LFO (low frequency oscillator) modulation section. This creates a kind of automatic slide in the filter frequencies from high to low. You can set the amount of frequency modulation and also the rate at which it swings from high to low. There's a pulsing red LED that gives you a visual indication of the speed of the LFO. If you want the filters to open and close without you turning the knobs you can set this to any rate you like. You can turn either of these knobs fully down to bypass this section.

Here's the science bit

Things get a bit more confusing when you reach the three-way Mode switch. This selects different combinations of LFO types and Bandpass filters. It's complicated if you read what it's actually doing, but at the end of the day you can just flick the switch and hear how it affects the sound without having to understand what's really happening behind the scenes.

Moving along we come to the Envelope Modulation section. This allows you to link the opening or closing of the filters to the volume of the sound you're processing. For example, you can set things up so that the filter is opened and closed by loud and quiet bits of your source sound. You can also select whether the filters will open to allow higher frequencies through or close to mute the following parts of the sound. This means for example you can get the filters working in time with a rhythm loop. Finally there's an input for an external signal to control the Envelope Modulation.

The fat bottom line

The bottom line is that this is a great bit of gear to have at your disposal. It could easily be integrated with the simplest of systems. Thanks to its Bypass mode you could keep it permanently attached to one of your Amiga audio outputs. In bigger systems it will work

As featured on...

For those still unsure of the kind of sounds you can get from the Resonator, here's my top five list of tracks that make good use of an analogue filter bank (though not the Resonator specifically). They're all top tunes by the way, so don't be afraid to ask your friendly neighbourhood record shop assistant to dig them out for you.

Artist	Title	Label
1. DBX	Losing Control	Peacefrog
2. Winx	Don't Laugh	XL
3. Dark Comedy	The Bar	Elypsia
4. Dave Clarke	Southside	Deconstruction
5. Sonic Patrol	Bang Loose	M-Track

well used with an insert point on a mixer or via the external effects loop.

Because it's got such a distinctive sound you'd have to be careful about over using it, but then that's the case with most new musical toys anyway. Subtly different (ie. more limited) alternatives to the Resonator are currently being used on loads of dance tracks but in less than innovate ways.

The Resonator has the advantage of not only being the cheapest analogue filter bank on the market but also one of the most versatile. The Envelope Modulation section gives rise to all kinds of possibilities. With the polarity switched one way, you can instantly transform breakbeats and rhythm loops into something that sounds like funky ultrascan. Flick it the other way and your vocals turn to liquid, dripping from the back of the box like little acid riffs.

If you're into any kind of loop-based music you'll find this a fascinating tool. Simply take a loop, preferably with some good bass, mid-range and treble action in it, put it through this, set the filter to slide up and down very slowly then sit back and enjoy the ride. The Resonator will have a good go at sending you into a funky trance as it continually morphs the loop into new and interesting shapes, bringing out parts elements of the sound you never would have realised were there in the first place. Top stuff for techno, house and drum & bass producers in particular.

Worth every penny

It's not often we review hardware in CU Amiga that's not actually Amiga-specific. When we do, it's because we've come across something we feel is a bit special. That's exactly the case with the Resonator.

I bought this one from Turnkey Audio in London (they're the official UK distributor) for £169 and I've got no complaints. Pick one up and you might not think you've got your money's worth, a it's lighter than anything else you're likely to have in your audio set-up, but as far as I'm concerned it certainly delivers when it comes to churning out wild and fat sounds. I didn't actually intend to review it in the mag, but I was so pleased with it I couldn't keep the secret to myself. If you're into more 'conventional' music production, I couldn't say that you'll definitely find a use for this. It won't make your music sound more 'realistic' that's for sure!

However, I'd recommend anyone who wants a new secret weapon in their sonic armoury gets their hands on one as soon as possible. ■

Tony Horgan

THC-00 RESONATOR

Developer: Freeform Analog Technologies

System Requirements:

Any sound source to feed through it (such as your Amiga)

Ease of use90%

Anyone can get it to make excellent noises, although understanding it properly could take a little time.

Performance92%

Low output but extremely quiet where noise is concerned. Makes fabulous noises too!

Value for money90%

Showing up alternative filter banks priced upwards of £300. Why pay more for less?

OVERALL

A superb addition to any tech-music maker's studio.

92%

Do you really need one though?

The answer to that question depends on where you want to go with your music. If you just used it like many would suggest, to make a digital synth sound more analogue, then no, it's not really worth it. However, if you want to transcend the capabilities of your Amiga samples and any other equipment you might have, then it certainly is. Mutate your breakbeats, disembodify your vocals, reduce entire tracks to bass-bin flapping monster heartbeats...

Desktop Publishing

Professional Page 4.1



Here to help you get your images from DrawStudio Lite into ProPage is Larry Hickmott with some extremely useful tips and hints.

Since CU Amiga gave you the fabulous DrawStudio Lite, I have received quite a few phone calls about getting images from DrawStudio Lite into Professional Page, another package given away on the cover of your favourite magazine. So in this

workshop, I want to discuss this in depth by giving you a number of examples and how they should be treated when taking them from DrawStudio Lite and into ProPage.

Lets start by looking at the compatibility question. We all know that the Amiga standard bitmap format

is IFF-ILBM. This can be used in any number of Amiga applications and I can't remember the last time an IFF-ILBM bitmap looked screwed up after being loaded into an Amiga application. The upshot of this is that in my opinion, the IFF-ILBM is by far the best type of graphic to use when you want a reliable format supported by the majority of Amiga applications.

Compare this with the compatibility of structured formats. In my time, I have seen DR2D-IFF files (the Amiga structured standard format) look fine in one application like ProVector 3 and then appear completely screwed in another program

such as ProVector 2.

The reason I used ProVector as the example was because here we have the same application but different versions and still you can have problems with structured graphics. To be fair to ProVector, I have seen the same mixed results when using the same image in around four or five Amiga applications that support DR2D-IFF. Which is one significant reason why I don't recommend using structured format files.

I don't know about you, but I want consistency when moving files from application to application and the only graphics format that gives me this is the IFF-ILBM. This is of

Exporting from DrawStudio Lite

Example 1: Here we have a title to be used as a masthead for a magazine front cover being created in ProPage. This masthead could never have been done in ProDraw, Art Expression, ProVector or ProPage itself. At the moment, it's a structured object within DrawStudio Lite but I want to be able to import it into ProPage at a resolution suitable for printing on an Epson Stylus at 1440dpi.

Your first step is to make sure that only the objects you want to export are selected. Then choose from the Project menu the item, Export/Bitmap (in version 2 there is also an Export/PostScript

option). As soon as you do this, DrawStudio will pop-up a requester asking you which objects you want to export. Click on Selected Objects.

The next requester is very important because from here, you control the output resolution, the colour depth and also whether you want anti-aliasing applied. This latter option is normally ghosted except when you export as "8-bit Grey". In DrawStudio 2, you can also have anti-aliasing on with 24-bit colour export.

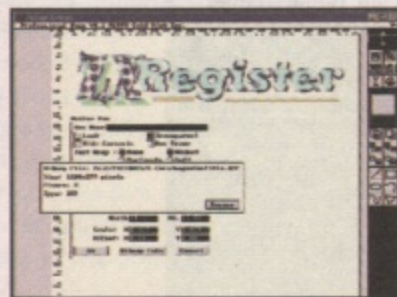
For normal use, such as when printing A4 size covers with a desktop type printer, I'd choose a width of 1200 pixels. There is no science in that choice, I just know that I don't get any pixelisation or jaggies when I spread the image across the width of an A4 page in ProPage. A little tip here is to

make sure that you hit the return key after typing the figures into the Width box. Providing you've "Retain Aspect Ratio" ticked, the height is entered for you.

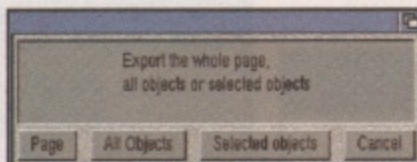
When you have set the attributes, click OK and for a short while, DrawStudio Lite will stop and do the conversion after which, you will get a second requester, where you can choose the exported bitmap format and the file name. You may also notice that this requester can be sized, so if it's too small for you, stretch it until it is as big as you need. At the end of the Filename text gadget is a button which can

be used for choosing the volume and drawer where you want the new file placed. As you can see, DrawStudio Lite supports many different bitmap formats and the one chosen depends on what application the image is being imported into.

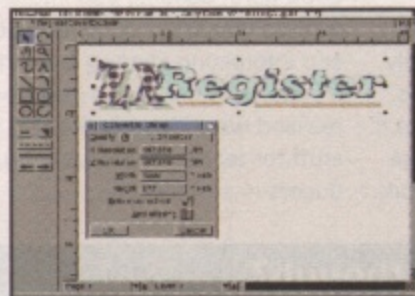
In our case, I'm using ProPage, so I've used IFF-ILBM. If you had PageStream 3 with the JPEG import module, you could choose JPEG. If you were creating titles for a WEB page, again, choose JPEG or GIF. To finish, click Export and save the image to disk. You can now run ProPage, draw a box across the top of a page and import to that frame, the graphic from DrawStudio Lite.



▲ Here is an example of a masthead I created in DrawStudio for use on a magazine cover. By being able to set the export resolution, you can ensure the printed quality is of the highest standard.



▲ When you have objects selected on the page and you choose Export/Bitmap, click on Selected Object unless you want to export more than just the image.



▲ A key feature in DrawStudio is its ability to let you choose the resolution and colour depth of exported images. It's important when working with applications like ProPage because you can control the quality of the printed image by choosing the appropriate attributes.



▲ Being able to choose the bitmap format for export is handy. If you do WEB graphics you can use GIF, if you create stuff for ProPage you can select IFF-ILBM.

Scaling Images in Professional Page

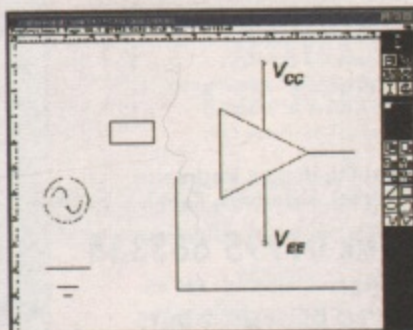
In general, there are two types of images you will create in DrawStudio Lite.

One is an image with lots of colours like a photograph, commonly called a continuous tone image. The second is a line art picture using a single colour such as black. Some examples of this are line illustrations, plain text and diagrams.

These are the type of images you can create in older drawing programs like ProDraw but you can also do it in DrawStudio Lite even though there is no provision to export as a structured object. The reason people prefer a structured format for such pictures is because bitmap line art can print horribly if a few basic rules are not adhered to.

I bet we all remember a lot of that really awful black and white clip art, which on-screen, wasn't much bigger than a postage stamp and when printed, was all blocky and ugly. There is a fairly important lesson which can be learned from such stuff. Size is everything!

Let's say you want to create a small diagram and you want to print it one inch wide. Because DrawStudio Lite is page based and objects created in it are

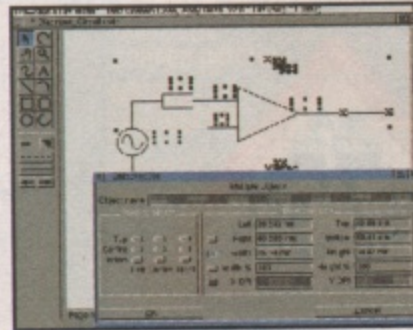


▲ Diagrams from DrawStudio Lite can easily be created and exported for use in Professional Page. Just make sure you create the diagram at the actual size you want it printed on paper at, and then choose the maximum resolution of your printer when exporting from DrawStudio Lite.

structured, you can create it one inch wide. The crunch comes when you want to export it.

If you export it at the default resolution of 75 dpi and size it to one inch in ProPage, when you print it at 300 dpi or worse still, at 1440 dpi, you will get a blocky image. This is because the pixels making up the bitmap are 1/75th of an inch and the dots on the printer are much finer at 300th of an inch. This is a more simplified example.

The solution is to export at a resolution equal to that of your printer. Let's say you have an

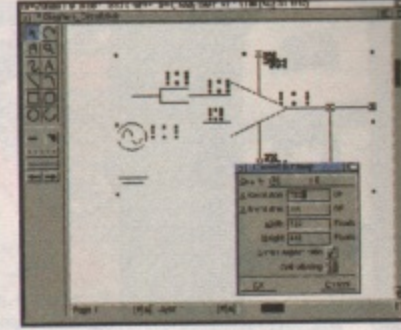


▲ If a diagram has been created at the wrong size, it can be scaled in DrawStudio Lite to a size you require using the Object/Specs menu item. Make sure to group the objects first.

Epson Stylus and want to print at 720 dpi. The resolution you should choose when you export the image would be 720 dpi or thereabouts. Also don't forget to set the quality to 1-bit for line art.

Here is all that again step by step. Create your image on the page at the same size you want it to appear when printed because this makes the mathematics of choosing the export resolution easier. Then select all the objects and choose Project/Export/Bitmap.

Click on Selected Objects in the next requester and then in the X Resolution gadget, type 720 and press return. Providing you have the "Retain Aspect Ratio"



▲ When exporting a line drawing with just a single colour (such as black), choose 1-bit. If the image has more colours, choose 8-bit colour or 8-bit grey.

check box ticked, the Y Resolution gadget will be filled in for you also at 720 dpi.

Continue the export to disk and then load the image into ProPage. Make sure the box for the image is one inch big and then print. You will see no jaggies and the file size is just 7 kilobytes.

There isn't any reason not to use this method. There will however be those who will say, "but what do I do if I want to scale it bigger". Easy, you export it again at a higher resolution or do that in the first place because it's always better to make it too big and scale down than too small and scale up.

course, supported by DrawStudio Lite. Anyone bemoaning the lack of support for structured formats in DrawStudio Lite would do well to remember what I've discussed above before getting too worked up about it.

That isn't to say DrawStudio Lite

doesn't support structured formats because it will Open DR2D-IFF and DrawStudio 2 has support for the export of PostScript and EPS files for use in programs like Wordworth and Final Writer.

But even though DrawStudio 2 supports this, it isn't something I

recommend because of the compatibility issue and also the lack of creative freedom when using such formats. What I mean by this is that if you're using a bitmap format, you can quite happily make use of all of

DrawStudio Lite's wonderful features without having to worry about whether or not these are sup-

ported by the chosen graphic format. The only proviso I put on this is that DrawStudio Lite lacks 24-bit support (supported by DrawStudio v2) and that 24-bit capability is required for transparency export. If you use 8-bit greyscale however, you can use transparency as much as you like.

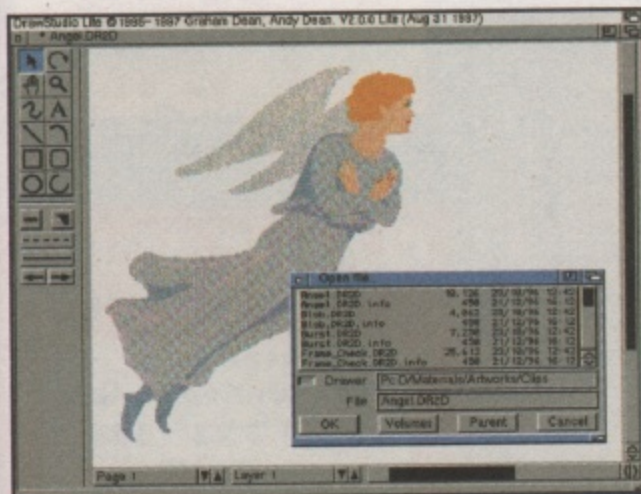
There are a few other things about structured formats I should also point out. Those of you who have seen DR2D-IFF files or even CGMs, will know how simplistic the drawings are. No room for the use of transparency and bitmap fills with such formats and these are further reasons I don't recommend the use of such file formats except possibly when you want to bring an image into DrawStudio to be edited.

In that case you can Open DR2D-

IFF files and then break them up into bits and use all the great functions in DrawStudio to change the look of the image to suit your needs before exporting the image as an IFF-ILBM or other bitmap format.

So don't fret about not being able to use structured formats when exporting images from DrawStudio Lite for use in ProPage or any other application for that matter. Bitmaps will print every bit as good providing you carefully choose the resolution of the image when exporting it from DrawStudio Lite. You will also have the advantage of being able to use many of the really creative functions in DrawStudio Lite without being compromised by the format of the file chosen when exporting the image. ■

Larry Hickmott



▲ Drawings such as this DR2D-IFF one from the people at Artworks, can be loaded into DrawStudio Lite and then various parts of the drawing changed by applying bitmap fills. This is just one reason why DrawStudio Lite is significantly better than older drawing programs which only allow simplistic colouring.

Upgrade Information

Upgrades from DrawStudio Lite and printed manuals for Professional Page are currently still available. Ring LH Publishing on 01908 370 230 for more details.

HIGH STREET MICRO

MASSIVE STOCKS OF SOFTWARE FOR AMIGA

AMSTRAD ALSO PC CD
ATARI WE BUY, SELL SEGA
MSX REPAIR
SINCLAIR PART EXCHANGE SONY
P.C. DISK ALL MAKERS OF COMPUTERS NINTENDO

SEND A4 S.A.E FOR LISTS

DEPT CU, 20-22 HIGH STREET, CREWE
CREWE, CHESHIRE CW2 7BN

01270 250871

ADULT SOFTWARE



HOT, HOT, HOT
ADULT
CD-ROMs

YOU MUST BE 18 OR OVER

Send for our FREE catalogue TODAY!!!

Micronine
Software

(DEPT CU), 11 CHAPEL STREET, RHYDYFELIN,
PONTYPRIDD, MID GLAMORGAN, CF37 5RG
TEL: 01443 662279 FAX: 01443662279

FREE
GAMES CHEATS

ON ALL ORDERS

FREE
1.4 EMULATOR

UNDERGROUND

FREE
LIBRARY DISK

ON ALL ORDERS

FREE
POST & PACK

PLATFORM GAMES

- Q 2115 MARIETTO
- Q 001 MAD COW NOT 1.3
- Q 1330 CAPTAIN BONUS
- Q 1445 10 C.W. GAMES
- Q 1553 LANCE-O-LOT
- Q 1462 CHARLIE COOL
- Q 1878 JUMP MAN DELUXE
- Q 2008 A12 KICK IT!
- Q 2123 A1200 AM-BEE
- Q 2137 A1200 ALL-ROX
- Q 2043 STAR-BOY
- Q 911 SOLO ASSAULT
- Q 906 OBLITERATOR
- Q 486 THE LAST REFUGE
- Q 1434 SPACE BLASTER
- Q 1706 THE ASTRO KID
- Q 1855 A12 SPEEDBREAK
- Q 1904 CREEPY CRAWLIE
- Q 1921 WITNESS
- Q 2003 A12 BANANA ISLE

ARCADIA GAMES

- Q 2093 A1200 GEEBIE
- Q 2085 FISHING FUN
- Q 273 KELLOGG EXPRESS
- Q 1368 ALIENS F.F.
- Q 1338 STRIKE COMMAND
- Q 1500 U.P.D. 24 GAMES
- Q 1807 A12 BEASTIES 2
- Q 1880 A12 SLIPSTREAM
- Q 1908 FLY TIGERS
- Q 1948 ANTS-ANTS-ANTS
- Q 025 HUNTER PLUS
- Q 815 LEMMINGS PACK
- Q 023 RICK DANGEROUS
- Q 1457 TI-FIGHTERS
- Q 022 THE GODS
- Q 026 ROBOCOP V2
- Q 1702 S.W.O.S. MOON
- Q 1778 PINBALL FANTASY
- Q 941 FATAL BLOWS
- Q 938 MARTIAL SPIRIT
- Q 290 FIGHT WARRIORS
- Q 1238 WEAPON MASTERS
- Q 1426 CYBERGAMES 3DSK
- Q 1548 FIGHT A1200
- Q 1720 A1200 SAMURAI

CLASSIC GAMES

- Q 011 ASTEROIDS
- Q 693 MISSILE COMMAND
- Q 778 OVERLANDER
- Q 692 SPACE INVADERS
- Q 841 COOKIE
- Q 308 DONKEY KONG
- Q 961 FLAMING ENGINES
- Q 469 THE ROAD TO HELL
- Q 1417 MANG FENDERS V2
- Q 1466 A12 KNOCK OUT
- Q 1642 A1200 EX RACING
- Q 1705 A12 AER RACERS
- Q 074 F1 EDITOR 967
- Q 2147 CYBER-PET
- Q 2138 A12 AARDVARK
- Q 926 HELICOPTER
- Q 332 SEALANCE-SUB
- Q 333 BATTLE CARS V2
- Q 1273 A12 TRAIN DRIVER

SPORT GAMES

- Q 1014 CRAZY GOLF
- Q 630 TEN PIN BOWLING
- Q 1171 2 DSK CRS-ANGLER
- Q 1373 ICE HOCKEY
- Q 1317 A12 GON FISHING
- Q 1465 A12 2DSK TENNIS
- Q 1251 TENNIS TOUR
- Q 1630 INTER CRICKET
- Q 1700 GOLF 9 HOLES
- Q 418 1000 CHEATS
- Q 931 BACKDOOR V3
- Q 821 PASSWORD MANIA
- Q 613 GAME TAMER V4.5
- Q 820 MEGA CHEATS
- Q 681 SIERRA SOLUTIONS
- Q 1358 GAME SOLUTIONS
- Q 1653 SOLUTIONS V3
- Q 1651 SOLVES 6 DISK

OVER 18 GAMES

- Q 997 2 DSK ADVENT V1
- Q 1001 2 DSK ADVENT V2
- Q 101 TERROR LINER V1
- Q 1081 ADULT TETRIS
- Q 1248 STRIP POKER
- Q 1145 A12 NUMBERS V1
- Q 1335 ADULT DROIDS
- Q 1533 DRAGONS BALL
- Q 1517 ADULT BOMBER
- Q 1654 LEGO BREAKOUT
- Q 1768 4 DSK A12 ADVENT
- Q 876 GLOBAL NUKE WAR
- Q 826 IND-ESPIONAGE
- Q 1182 A12 NIGHTMARE
- Q 1170 A12 LORDS 2 DSK
- Q 1431 UFO UNCLOTHED
- Q 1547 SOLO STAR TREK
- Q 2127 COIN-MANIA
- Q 859 10 PUZZLERS
- Q 1550 PUZZLER PITTS
- Q 1546 EXPERT BALLS
- Q 1633 THE WOOGLIES
- Q 1785 BRAIN BALLS
- Q 876 SCOTTISH LEAGUE
- Q 321 AIRPORT
- Q 443 SLAM BALL
- Q 817 BLOOD BALL
- Q 1429 ULTI MANAGER
- Q 1699 PREMIER PICS
- Q 1763 AIR TRAFFIC
- Q 1771 MICRO MART 3
- Q 2119 CATCH PHRASE
- Q 1031 TREK TRIV 5 DISK
- Q 716 POP MUSIC QUIZ
- Q 462 WHEEL OF FORTUNE
- Q 1597 QUIZ 555
- Q 1683 HOLLYWOOD TRIV
- Q 1670 A12 DEATH ROW
- Q 1037 MARBLES GAME
- Q 119 DRAGON'S TITLES
- Q 112 DRAGON'S CAVE
- Q 1477 BOMB MANIACS
- Q 1476 MARBEL-LOUS
- Q 1687 TILE MANIA

TETRIS - COLUMNS

- Q 107 TWIN-TRIS TETRIS
- Q 293 DR. MARIO COLMS
- Q 1602 SUPER FOUL EGG
- Q 1627 PILL - MANIA
- Q 1954 A1200 PLUBZ
- Q 2000 A12 WORMTRIS
- Q 1931 A12 PLAY PAC
- Q 1956 JACK-MAN
- Q 1096 PUC MAN
- Q 1138 A12 CYBER MAN
- Q 1648 A12 BOBS LEMON
- Q 230 SUPER PAC-MAN
- Q 2129 A12 PIV POLATA
- Q 003 MEGABALL V1
- Q 459 MEGABALL V2
- Q 1459 CYBERSPHERE
- Q 559 MEGABALL V3
- Q 1704 BORIS BALL
- Q 2021 BRIK-FIGHTER
- Q 1527 ICE MINE PRO
- Q 1595 NEW MINES
- Q 1569 BUG MINES
- Q 1572 UNDER MINES
- Q 1573 GOLD MINES
- Q 1577 EMERALD HEAD
- Q 1580 EXPERT MINES
- Q 1582 DENMARK MINES
- Q 1583 STYX MINES
- Q 1692 SPACE MINES
- Q 2013 WONDER MINES

PUB-CLUB GAMES

- Q 2108 A12 SOLO CARDS
- Q 2136 SOV-SLOTS
- Q 2069 BILLY'S DARTS
- Q 2032 PRO POKER
- Q 1930 A12 DOMINOES
- Q 1929 A1200 YATZEE
- Q 1304 CHECKERS V2
- Q 222 FRUIT MACHINE
- Q 375 CARDS SOLITAIRE
- Q 1246 AMIGA CRIBBAGE
- Q 1362 PUB DARTS TOUR
- Q 560 WORLD DARTS
- Q 1450 SAT SNOOKER
- Q 1112 A1200 X CARDS
- Q 2151 A1200 JIG SAWS
- Q 2109 MONOPOLY V1.4
- Q 2033 SCRAZZLE
- Q 910 NEW MONOPOLY STAT
- Q 631 SCRABBLE
- Q 476 CHESS GAMES
- Q 116 STAR TREK 2 DISK
- Q 297 NEIGHBOURS 2 DISK
- Q 1671 BREED 1996
- Q 1753 A1200 GLOOM
- Q 1894 TIME RUNNER
- Q 1925 DUNGEONS
- Q 876 GLOBAL NUKE WAR
- Q 826 IND-ESPIONAGE
- Q 1182 A12 NIGHTMARE
- Q 1170 A12 LORDS 2 DSK
- Q 1431 UFO UNCLOTHED
- Q 1547 SOLO STAR TREK
- Q 2127 COIN-MANIA
- Q 859 10 PUZZLERS
- Q 1550 PUZZLER PITTS
- Q 1546 EXPERT BALLS
- Q 1633 THE WOOGLIES
- Q 1785 BRAIN BALLS
- Q 876 SCOTTISH LEAGUE
- Q 321 AIRPORT
- Q 443 SLAM BALL
- Q 817 BLOOD BALL
- Q 1429 ULTI MANAGER
- Q 1699 PREMIER PICS
- Q 1763 AIR TRAFFIC
- Q 1771 MICRO MART 3
- Q 2119 CATCH PHRASE
- Q 1031 TREK TRIV 5 DISK
- Q 716 POP MUSIC QUIZ
- Q 462 WHEEL OF FORTUNE
- Q 1597 QUIZ 555
- Q 1683 HOLLYWOOD TRIV
- Q 1670 A12 DEATH ROW
- Q 1037 MARBLES GAME
- Q 119 DRAGON'S TITLES
- Q 112 DRAGON'S CAVE
- Q 1477 BOMB MANIACS
- Q 1476 MARBEL-LOUS
- Q 1687 TILE MANIA

BOARD GAMES

- Q 2108 A12 SOLO CARDS
- Q 2136 SOV-SLOTS
- Q 2069 BILLY'S DARTS
- Q 2032 PRO POKER
- Q 1930 A12 DOMINOES
- Q 1929 A1200 YATZEE
- Q 1304 CHECKERS V2
- Q 222 FRUIT MACHINE
- Q 375 CARDS SOLITAIRE
- Q 1246 AMIGA CRIBBAGE
- Q 1362 PUB DARTS TOUR
- Q 560 WORLD DARTS
- Q 1450 SAT SNOOKER
- Q 1112 A1200 X CARDS
- Q 2151 A1200 JIG SAWS
- Q 2109 MONOPOLY V1.4
- Q 2033 SCRAZZLE
- Q 910 NEW MONOPOLY STAT
- Q 631 SCRABBLE
- Q 476 CHESS GAMES
- Q 116 STAR TREK 2 DISK
- Q 297 NEIGHBOURS 2 DISK
- Q 1671 BREED 1996
- Q 1753 A1200 GLOOM
- Q 1894 TIME RUNNER
- Q 1925 DUNGEONS
- Q 876 GLOBAL NUKE WAR
- Q 826 IND-ESPIONAGE
- Q 1182 A12 NIGHTMARE
- Q 1170 A12 LORDS 2 DSK
- Q 1431 UFO UNCLOTHED
- Q 1547 SOLO STAR TREK
- Q 2127 COIN-MANIA
- Q 859 10 PUZZLERS
- Q 1550 PUZZLER PITTS
- Q 1546 EXPERT BALLS
- Q 1633 THE WOOGLIES
- Q 1785 BRAIN BALLS
- Q 876 SCOTTISH LEAGUE
- Q 321 AIRPORT
- Q 443 SLAM BALL
- Q 817 BLOOD BALL
- Q 1429 ULTI MANAGER
- Q 1699 PREMIER PICS
- Q 1763 AIR TRAFFIC
- Q 1771 MICRO MART 3
- Q 2119 CATCH PHRASE
- Q 1031 TREK TRIV 5 DISK
- Q 716 POP MUSIC QUIZ
- Q 462 WHEEL OF FORTUNE
- Q 1597 QUIZ 555
- Q 1683 HOLLYWOOD TRIV
- Q 1670 A12 DEATH ROW
- Q 1037 MARBLES GAME
- Q 119 DRAGON'S TITLES
- Q 112 DRAGON'S CAVE
- Q 1477 BOMB MANIACS
- Q 1476 MARBEL-LOUS
- Q 1687 TILE MANIA

ADVENTURE GAMES

- Q 116 STAR TREK 2 DISK
- Q 297 NEIGHBOURS 2 DISK
- Q 1671 BREED 1996
- Q 1753 A1200 GLOOM
- Q 1894 TIME RUNNER
- Q 1925 DUNGEONS
- Q 876 GLOBAL NUKE WAR
- Q 826 IND-ESPIONAGE
- Q 1182 A12 NIGHTMARE
- Q 1170 A12 LORDS 2 DSK
- Q 1431 UFO UNCLOTHED
- Q 1547 SOLO STAR TREK
- Q 2127 COIN-MANIA
- Q 859 10 PUZZLERS
- Q 1550 PUZZLER PITTS
- Q 1546 EXPERT BALLS
- Q 1633 THE WOOGLIES
- Q 1785 BRAIN BALLS
- Q 876 SCOTTISH LEAGUE
- Q 321 AIRPORT
- Q 443 SLAM BALL
- Q 817 BLOOD BALL
- Q 1429 ULTI MANAGER
- Q 1699 PREMIER PICS
- Q 1763 AIR TRAFFIC
- Q 1771 MICRO MART 3
- Q 2119 CATCH PHRASE
- Q 1031 TREK TRIV 5 DISK
- Q 716 POP MUSIC QUIZ
- Q 462 WHEEL OF FORTUNE
- Q 1597 QUIZ 555
- Q 1683 HOLLYWOOD TRIV
- Q 1670 A12 DEATH ROW
- Q 1037 MARBLES GAME
- Q 119 DRAGON'S TITLES
- Q 112 DRAGON'S CAVE
- Q 1477 BOMB MANIACS
- Q 1476 MARBEL-LOUS
- Q 1687 TILE MANIA

PUZZLER GAMES

- Q 2127 COIN-MANIA
- Q 859 10 PUZZLERS
- Q 1550 PUZZLER PITTS
- Q 1546 EXPERT BALLS
- Q 1633 THE WOOGLIES
- Q 1785 BRAIN BALLS
- Q 876 SCOTTISH LEAGUE
- Q 321 AIRPORT
- Q 443 SLAM BALL
- Q 817 BLOOD BALL
- Q 1429 ULTI MANAGER
- Q 1699 PREMIER PICS
- Q 1763 AIR TRAFFIC
- Q 1771 MICRO MART 3
- Q 2119 CATCH PHRASE
- Q 1031 TREK TRIV 5 DISK
- Q 716 POP MUSIC QUIZ
- Q 462 WHEEL OF FORTUNE
- Q 1597 QUIZ 555
- Q 1683 HOLLYWOOD TRIV
- Q 1670 A12 DEATH ROW
- Q 1037 MARBLES GAME
- Q 119 DRAGON'S TITLES
- Q 112 DRAGON'S CAVE
- Q 1477 BOMB MANIACS
- Q 1476 MARBEL-LOUS
- Q 1687 TILE MANIA

QUIZ GAMES

- Q 2119 CATCH PHRASE
- Q 1031 TREK TRIV 5 DISK
- Q 716 POP MUSIC QUIZ
- Q 462 WHEEL OF FORTUNE
- Q 1597 QUIZ 555
- Q 1683 HOLLYWOOD TRIV
- Q 1670 A12 DEATH ROW
- Q 1037 MARBLES GAME
- Q 119 DRAGON'S TITLES
- Q 112 DRAGON'S CAVE
- Q 1477 BOMB MANIACS
- Q 1476 MARBEL-LOUS
- Q 1687 TILE MANIA

AMIGA LEISURE

- Q 2135 A12 DIANA 61-97
- Q 205 AMIGA PUNTER
- Q 1210 LOTTO LUNATIC
- Q 1436 A-GENE V5
- Q 1594 LOTTERY SYSTEM
- Q 1882 THE PHYSICIAN
- Q 2045 ETERNAL 2 DISK
- Q 2083 O SPICE 2 DISK
- Q 2053 TERMINATOR DISK
- Q 1270 DOOM RAVE
- Q 1220 AMIGA JAMMIN
- Q 1165 VENTILATOR
- Q 1665 2 DISK JADE
- Q 1725 DREAM WITH ME
- Q 2063 SHED TEARS 2DSK
- Q 460 TEKNO RAVE
- Q 1015 2DSK TAZ QUEEN
- Q 1104 2DSK OXYGENE
- Q 1785 TECHNO TRACKS
- Q 1816 BATMAN 2 DISK
- Q 1985 COLOUR CYCLE
- Q 740 4 DISK MANGA
- Q 1271 PIXEL STORMS
- Q 1193 LEMMINGSTONS
- Q 1646 MISS MANGA
- Q 1650 STARFLEET 3DSK
- Q 2064 A12 PATHFINDER
- Q 2048 FAN-GUIDE 2DSK
- Q 704 REVELATIONS
- Q 061 PAT NAGEL'S GIRLS
- Q 936 AVIATION HISTORY
- Q 1060 5DSK LION KING
- Q 1498 NIGEL MANSELLS
- Q 1472 YABA DABA DO
- Q 063 ULTRAPAIN
- Q 349 SPECTRACOLOUR
- Q 748 ILLUSION PAINT
- Q 1460 A-Z PAINT PAD
- Q 1565 CARTOON STUDIO
- Q 1707 PERFECT PAINT
- Q 1760 JNR PICASSO
- Q 2056 ASCII ART PRO
- Q 1299 A12 MAGNI-CAD
- Q 071 GRAPHICS CON KIT
- Q 070 GRAPHIC UTILS
- Q 133 FRAC LAND BUILD
- Q 1026 PICTURE LAB
- Q 084 PUGGS IN SPACE
- Q 651 FAIRLIGHT 242
- Q 831 RED DWARF
- Q 463 MR POTATO HEAD
- Q 347 NEWTEK V3 2 DISK
- Q 187 ANIMATION STUDIO
- Q 329 VIDEO INSCRIPT
- Q 790 VIDEOTRACKER 5 DISK
- Q 148 S-MOONIE
- Q 1971 SAMPLE MAKER
- Q 220 FUNK KEYBOARDS
- Q 431 RAVE KEYBOARDS
- Q 202 MED V3.2
- Q 729 DRUM MACHINE
- Q 787 SONIC DRUM KIT
- Q 738 OCTAMED V2
- Q 136 THE ART OF MED
- Q 192 THE COMPOSER
- Q 618 MUSIC DATABASE
- Q 981 AUDIO ENGINEER
- Q 1681 PROTRACKER 3.5
- Q 1791 OCTATUTOR V5
- Q 201 PIANO CLASSICS
- Q 234 VIVALDI 2 DISK
- Q 342 AMIGA-DEUS
- Q 213 DIGI CONCERT V2
- Q 620 BAGPIPE MUSIC
- Q 248 EXPRESSION V2
- Q 1357 2 MEG DACO VI
- Q 1759 GUITAR BLUES
- Q 1757 HEAVY METAL
- Q 1800 TEKNO MAGE 96
- Q 1968 BEATLE MANIA
- Q 2095 TAZ JUNGLE SFX
- Q 660 KORG 01W 8 DISK
- Q 647 SOUND FX 3 DISK
- Q 619 DRUMS 2 DISK
- Q 1666 URBAN 6 DISK
- Q 1588 DANCE 5 DISK
- Q 1258 MOVIE SAMPLES
- Q 1861 MONTY PYTHON'S
- Q 1850 ANSWER BACK
- Q 1828 NEW WORMS SFX

AMIGA MEGADEMOS

- Q 2045 ETERNAL 2 DISK
- Q 2083 O SPICE 2 DISK
- Q 2053 TERMINATOR DISK
- Q 1270 DOOM RAVE
- Q 1220 AMIGA JAMMIN
- Q 1165 VENTILATOR
- Q 1665 2 DISK JADE
- Q 1725 DREAM WITH ME
- Q 2063 SHED TEARS 2DSK
- Q 460 TEKNO RAVE
- Q 1015 2DSK TAZ QUEEN
- Q 1104 2DSK OXYGENE
- Q 1785 TECHNO TRACKS
- Q 1816 BATMAN 2 DISK
- Q 1985 COLOUR CYCLE
- Q 740 4 DISK MANGA
- Q 1271 PIXEL STORMS
- Q 1193 LEMMINGSTONS
- Q 1646 MISS MANGA
- Q 1650 STARFLEET 3DSK
- Q 2064 A12 PATHFINDER
- Q 2048 FAN-GUIDE 2DSK
- Q 704 REVELATIONS
- Q 061 PAT NAGEL'S GIRLS
- Q 936 AVIATION HISTORY
- Q 1060 5DSK LION KING
- Q 1498 NIGEL MANSELLS
- Q 1472 YABA DABA DO
- Q 063 ULTRAPAIN
- Q 349 SPECTRACOLOUR
- Q 748 ILLUSION PAINT
- Q 1460 A-Z PAINT PAD
- Q 1565 CARTOON STUDIO
- Q 1707 PERFECT PAINT
- Q 1760 JNR PICASSO
- Q 2056 ASCII ART PRO
- Q 1299 A12 MAGNI-CAD
- Q 071 GRAPHICS CON KIT
- Q 070 GRAPHIC UTILS
- Q 133 FRAC LAND BUILD
- Q 1026 PICTURE LAB
- Q 084 PUGGS IN SPACE
- Q 651 FAIRLIGHT 242
- Q 831 RED DWARF
- Q 463 MR POTATO HEAD
- Q 347 NEWTEK V3 2 DISK
- Q 187 ANIMATION STUDIO
- Q 329 VIDEO INSCRIPT
- Q 790 VIDEOTRACKER 5 DISK
- Q 148 S-MOONIE
- Q 1971 SAMPLE MAKER
- Q 220 FUNK KEYBOARDS
- Q 431 RAVE KEYBOARDS
- Q 202 MED V3.2
- Q 729 DRUM MACHINE
- Q 787 SONIC DRUM KIT
- Q 738 OCTAMED V2
- Q 136 THE ART OF MED
- Q 192 THE COMPOSER
- Q 618 MUSIC DATABASE
- Q 981 AUDIO ENGINEER
- Q 1681 PROTRACKER 3.5
- Q 1791 OCTATUTOR V5
- Q 201 PIANO CLASSICS
- Q 234 VIVALDI 2 DISK
- Q 342 AMIGA-DEUS
- Q 213 DIGI CONCERT V2
- Q 620 BAGPIPE MUSIC
- Q 248 EXPRESSION V2
- Q 1357 2 MEG DACO VI
- Q 1759 GUITAR BLUES
- Q 1757 HEAVY METAL
- Q 1800 TEKNO MAGE 96
- Q 1968 BEATLE MANIA
- Q 2095 TAZ JUNGLE SFX
- Q 660 KORG 01W 8 DISK
- Q 647 SOUND FX 3 DISK
- Q 619 DRUMS 2 DISK
- Q 1666 URBAN 6 DISK
- Q 1588 DANCE 5 DISK
- Q 1258 MOVIE SAMPLES
- Q 1861 MONTY PYTHON'S
- Q 1850 ANSWER BACK
- Q 1828 NEW WORMS SFX

AMIGA VIDEO

- Q 329 VIDEO INSCRIPT
- Q 790 VIDEOTRACKER 5 DISK
- Q 148 S-MOONIE
- Q 1971 SAMPLE MAKER
- Q 220 FUNK KEYBOARDS
- Q 431 RAVE KEYBOARDS
- Q 202 MED V3.2
- Q 729 DRUM MACHINE
- Q 787 SONIC DRUM KIT
- Q 738 OCTAMED V2
- Q 136 THE ART OF MED
- Q 192 THE COMPOSER
- Q 618 MUSIC DATABASE
- Q 981 AUDIO ENGINEER
- Q 1681 PROTRACKER 3.5
- Q 1791 OCTATUTOR V5
- Q 201 PIANO CLASSICS
- Q 234 VIVALDI 2 DISK
- Q 342 AMIGA-DEUS
- Q 213 DIGI CONCERT V2
- Q 620 BAGPIPE MUSIC
- Q 248 EXPRESSION V2
- Q 1357 2 MEG DACO VI
- Q 1759 GUITAR BLUES
- Q 1757 HEAVY METAL
- Q 1800 TEKNO MAGE 96
- Q 1968 BEATLE MANIA
- Q 2095 TAZ JUNGLE SFX
- Q 660 KORG 01W 8 DISK
- Q 647 SOUND FX 3 DISK
- Q 619 DRUMS 2 DISK
- Q 1666 URBAN 6 DISK
- Q 1588 DANCE 5 DISK
- Q 1258 MOVIE SAMPLES
- Q 1861 MONTY PYTHON'S
- Q 1850 ANSWER BACK
- Q 1828 NEW WORMS SFX

MUSIC MAKERS

- Q 1971 SAMPLE MAKER
- Q 220 FUNK KEYBOARDS
- Q 431 RAVE KEYBOARDS
- Q 202 MED V3.2
- Q 729 DRUM MACHINE
- Q 787 SONIC DRUM KIT
- Q 738 OCTAMED V2
- Q 136 THE ART OF MED
- Q 192 THE COMPOSER
- Q 618 MUSIC DATABASE
- Q 981 AUDIO ENGINEER
- Q 1681 PROTRACKER 3.5
- Q 1791 OCTATUTOR V5
- Q 201 PIANO CLASSICS
- Q 234 VIVALDI 2 DISK
- Q 342 AMIGA-DEUS
- Q 213 DIGI CONCERT V2
- Q 620 BAGPIPE MUSIC
- Q 248 EXPRESSION V2
- Q 1357 2 MEG DACO VI
- Q 1759 GUITAR BLUES
- Q 1757 HEAVY METAL
- Q 1800 TEKNO MAGE 96
- Q 1968 BEATLE MANIA
- Q 2095 TAZ JUNGLE SFX
- Q 660 KORG 01W 8 DISK
- Q 647 SOUND FX 3 DISK
- Q 619 DRUMS 2 DISK
- Q 1666 URBAN 6 DISK
- Q 1588 DANCE 5 DISK
- Q 1258 MOVIE SAMPLES
- Q 1861 MONTY PYTHON'S

SELECT SOFTWARE

FREE GIFTS:-

- 3 FREE disks per £10
- FREE Disk Boxes
- FREE spare labels
- Branded Disks
- FREE 1st class P&P next day despatch

PHONE FOR FREE CATDISK

- Amended to work easily for beginners
- Only best titles & latest versions
- Guaranteed - No quibble replacements

A1200/4000 Rocket 2.28 AGA Brain Dead Doom Clone Amiga Worms Clone (2) Ariel Racers Submarina (2) Slapstream 3D Game Demo WBS Beginner Guide HD Click 3 SweetBlaster 2.7 AGA RD's Datatypes Isontan 2.96 AGA 90% D. Peeman 1.6 AGA 88% D. Galaga 2.6C AGA 100% Diamond Caves Latest (2) Cyberbitch AGA (2) Klondike AGA Floppy (3) Klondike AGA 4 (4) (HD) Samurai Showdown AGA WB2+ UTILS IDEFIX 97 latest Image Studio 2.2 (2) (HD) 90% Menus & More 3.3 90% Palette Control VHS Reorg 3.11 & Diskaid 2 Flamingo 2.01 Database (2) 95% Virus Xtruder 3.4 82% Plequest Dupus Clone PowerdataPro HD doubler XPK Libs and Tools	Executive 2.1 (2) (HD) 95% MCP Latest (2) 85% Transonic Print Driver MUI UTILS (WB2+) Tool Manager 3 K3 MUI 3.5 and DevKit (2) MUI on floppy-hd not red'd (2) RD's Filemanager 1.29 94% Daily Backup 2.42 Screenshot 3.2 Start Menu 2 Windows Progs & More RD's MUI Util 33 RD's MUI Util 34 MUI Video Tiler 2.1 MUI Rexx 2.2 94% WB2+ GAMES Kick It (90%) MegaTyphoon 91% Stalk 99% Psychical 98% Deluxe Pacman 1.6 80% Rebound Slider 92% Torque 87% Deluxe Galaga 2.6 100% UTILS ETC. - ANY 1MB TextEngine 5 Word Pro Snoopdoo 3 Wordworth Fonts (2) Transonic Print Driver Star Printer Drivers Pro Printer Drivers ART MUSIC ANY 1MB Junior Picasso Disney Colour Clipart (2) Star Trek Rave Demo Octamed v5 (WB2+) GAMES - ANY 1MB Xmas Kids games (3) Yahoohoo Astro Kid Witness Project X Clone Blasted Shoot em up Dog Fight 1.1 Super Foul Egg (Puyo) M&S Tetris Compilation Megaball v4 (2) M&S Puzzlers Comp M&S Blaster Comp Pinball Fantasies Demo Breed 96 5inCity 1.3 Total War 1.9 Real Chinese Majong	Super Skiddy 3 85% Wheel Chair Gladiators Weekly World (2) Coarse Fishing (2) 100% Antwar 1.9 Cosmic Racer Chameques (2) M.A.S.H. Kung Fu Charles Solo Assault EDUCATIONAL - ANY 1MB Star Trek Guide Star Trek Next Gen Quiz (2) Barney Meets Santa (2) Barney Goes Camping (2) Octamed 5 Tutor (4) ICONS & BACKGROUNDS Magic WB 2.1 p (2) (WB2+) Magic Workbench 1.3 NewsIcons 3 (2) (WB2+) 90% AES NewsIcons 4, 5 & 6 NewsIcons Backdrops Magic WB extras 11 (2) Magic WB Backdrops (2) Magic WB Icons 14 Star Trek Magic WB extras Iconographics v3 (3) Iconographics More Icons
--	---	--

ALL DISKS £1 • AMINET from 25p • 10 DISK THEMED PACKS £5 • Cheques payable to M. Wood, Dept CUS, 12 Ranworth Road, Bramley, Rotherham, S66 2SN ORDERLINE: 01709 530 569

FORE-MATT

Dept. CU, PO Box 835,
Wootton Bassett, Wiltshire SN4 8RX
TEL: 01793 853802

Public Domain/Shareware/CD-ROM/Commercial Software/Hardware

FREE CATALOGUE DISK

PD / Shareware from only 50p/disk

A Whole World of Amiga Software

CDROM	DISK	DISK	DISK
Big Red Adventure £36.99	Wendetta £39.99	Norman Directors Cut £24.99	Burrito £27.99
Pinball Illusions £8.99	Black Viper £29.99	Theme Park £24.99	Acid Attack £24.99
Assassins Games 1 £11.99	Cadric £9.99	Via Toy Adventure £29.99	W.O.D. 36/97 £21.99
Assassins Games 2 £13.49	Jonny Hill £24.99	2-4 £29.99	Valhalla 1 £23.99
Assassins Games 3 £13.99	Virtual Computer Pets £4.99	Skidmarks £7.99	Valhalla 2 £27.99
Gloom £21.99	AGA Toolkit 97 £8.99	Super Skidmarks £9.99	JET Pilot £15.99
Gulp £4.99	Arcade Classics £24.99	Utopia Racers £24.99	Signet AGA £12.99
Akira £4.99	Phy's High £19.99	W Experience £19.99	Tiny Troop £12.99
Europe 2 £24.99	Real Encyclopedia £39.99	Kidzies £24.99	Timelapses £12.99
The Phyrang £19.99	Twilight Dimensions £4.99	Info Nexus £4.99	Wilma Lido £14.99
6th Hedge Investigators £29.99	Into the Net £17.99	FI Grand Prix £14.99	Pears £7.99
Scrap Store £4.99	Hero CD Vols 1 £9.99	Gloom £4.99	Sooty Pals £9.99
Vital Lite £4.99	Multimedia Toolkit £5.99	F15 Strike Eagle II £14.99	Potman 1st £9.99
Chase Engine £4.99	Network CD £4.99	12/18 Media £14.99	12/18 Media £14.99
Video Creator £7.99	Chained Constellation £9.99	Deluxe Pals 1 £14.99	PC PC Simulator £49.99
Oh yes! more games £14.99	UFO Gold £27.99	Colonisation £27.99	Gunship 2000 £14.99

Many more titles in stock

ONLY 50p p&p per order

Amiga Repairs

FAULTY TROUBLESOME COMPUTER??
CALL FOR COLLECTION OR PERSONALLY DELIVER
TO THE EXPERTS FOR FAST RELIABLE REPAIR OF
YOUR AMIGA FOR ONLY

£24.99 + PARTS
*NO OBLIGATION FREE QUOTE

WE REPAIR TO
COMPONENT LEVEL
A500, A600, 1200, 1500,
2000, 3000, 4000 & CD32

FREE GIFT
WITH EVERY REPAIR
PLEASE SPECIFY

- MOUSE MAT • MOUSE HOLDER
- DISK CLEANING KIT
- ADD £10 REPLACE MOUSE
- BARGAIN HARD DRIVES
- EXCHANGE SERVICE
- MODULATORS.....£20.00
- PSU£20.00



- 95% success rate on all computers
- Door to door collection of your computer anywhere in the UK

FAST COMPUTERS
144 Tanner Street
Tower Bridge,
London, SE1 2HG
Tel: 0171 252 3553

PDPOWER 60p

(DEPT CU), P.O. Box 1219, Aston, Sheffield S26 2XZ
Mobile: 0374-150972 • email: PDPOW@aol.com

WE STOCK OVER 10,000 DISKS - ADULTS; UTILS; GAMES; EDUCATIONAL; MUSIC AND LOTS MORE TO PICK FROM!!!

COMMERCIAL TITLES NOW IN • COMMERCIAL TITLES NOW IN	COMMERCIAL TITLES NOW IN • COMMERCIAL TITLES NOW IN
£4.99 each plus £1 p&p • Gloom AGA • Naughty Ones • Club & Country • Watchtower AGA • Colossus Chess £7.99 each plus £1 p&p • Skidmarks • Approach Trainer • Legends • Fears AGA £9.99 each plus £1 p&p • Cannon Fodder • Cannon Fodder 2 • Brian Lara 96 • Touring Challenge • Virtual Karting • Super Skidmarks • Super League Manager • Minskies £14.99 each plus £1 p&p • Manyk Mayhem AGA • PGA Tour Golf+ • Air Bus II • Rail Road Tycoon • Colonization £19.99 each plus £1 p&p • Street Racer (Disk or CD) • D Paint 5 AGA • Mini Office • Blitz Basic	• B17 Flying Fortress • Fields of Glory • UFO • F19 • F15 II • Microprose Grand Prix • Civilization • Gunship 2000 • Silent Service II • Theme Park A500/600 • Theme Park AGA • Acid Attack AGA • Arcade Action • Championship Challenge • Sporting Spectacular • Euro League Manager • Exile • Odyssey • Super Tennis Champ • StarLord • Special Forces • Dog Fight • F117A • Impossible Mission • Road Rash • Desert Strike • PGA Tour Golf • Wing Commander

ACCESSORIES • ACCESSORIES • ACCESSORIES • ACCESSORIES	MULTICOLOUR LABELS
MOUSE MATS only £1.75 inc p&p HEAD CLEANERS £2.99 inc p&p A 600 DUST COVER only £1.99 inc p&p	SEXY BLACK MICE only £10.99 inc p&p NOW IN £2.50 per 100 inc p&p £6.99 per 500 inc p&p £10.99 per 1000 inc p&p

SPEND £10 or more on PD not inc p&p (this offer does not include accessories for Commercial games) and pick ONE of the following FREE, Headcleaner, 100 Labels, or a Mousemat for only 50p. This offer only applies to NEW customers ordering from this ADVERT. This AMAZING offer closes 28th Feb 97.

* BE SURE TO ASK FOR ABOVE OFFER WHEN MAKING YOUR PURCHASES! - OR MISS OUT!!

PLEASE MAKE CHEQUES/P.O.s PAYABLE TO R. LLOYD FOR ORDERS OF TWO POUNDS OR BELOW. WE ACCEPT STAMPS.

BUY 10 DISKS PICK 1 DISK FREE FOR ANY ORDER PLEASE ADD 75p p&p
FREE CATALOGUE FREE GAME FREE COPIER of our choice
Freebies sent out with all first time orders, or send a S.A.E. to the above address

ADULTS ONLY Death Row Quiz Snatch F.N. Pool WB2+ Ryan's Tigers WB2+ Night Fantasy AGA Cursed Blow AGA Good Vibrations AGA Exposed 1.3K (4) Strip Pot AGA (2) Classic Pin Up AGA (2) Dms and Drom Madonna Sex (2) Slayer Slava's (2) Hot Girls AGA (2) La Tota AGA (2) Sexy Stars AGA (3) Danni Minogue AGA (2) Red Hot and淫 (2) Strip Poker (2) Sharon Stone AGA (2) Luvly Ladies AGA 2 (2) Luvly Ladies AGA 1 (2) Luvly Ladies AGA 3 (2) Luvly Ladies AGA 4 (2) Luvly Ladies AGA 5 (2) Luvly Ladies AGA 6 (2) Luvly Ladies AGA 7 (2) Luvly Ladies AGA 8 (2) Luvly Ladies AGA 9 (2) Luvly Ladies AGA 10 (2) Luvly Ladies AGA 11 (2) Luvly Ladies AGA 12 (2) Luvly Ladies AGA 13 (2) Luvly Ladies AGA 14 (2) Luvly Ladies AGA 15 (2) Luvly Ladies AGA 16 (2) Luvly Ladies AGA 17 (2) Luvly Ladies AGA 18 (2) Luvly Ladies AGA 19 (2) Luvly Ladies AGA 20 (2) Luvly Ladies AGA 21 (2) Luvly Ladies AGA 22 (2) Luvly Ladies AGA 23 (2) Luvly Ladies AGA 24 (2) Luvly Ladies AGA 25 (2) Luvly Ladies AGA 26 (2) Luvly Ladies AGA 27 (2) Luvly Ladies AGA 28 (2) Luvly Ladies AGA 29 (2) Luvly Ladies AGA 30 (2) Luvly Ladies AGA 31 (2) Luvly Ladies AGA 32 (2) Luvly Ladies AGA 33 (2) Luvly Ladies AGA 34 (2) Luvly Ladies AGA 35 (2) Luvly Ladies AGA 36 (2) Luvly Ladies AGA 37 (2) Luvly Ladies AGA 38 (2) Luvly Ladies AGA 39 (2) Luvly Ladies AGA 40 (2) Luvly Ladies AGA 41 (2) Luvly Ladies AGA 42 (2) Luvly Ladies AGA 43 (2) Luvly Ladies AGA 44 (2) Luvly Ladies AGA 45 (2) Luvly Ladies AGA 46 (2) Luvly Ladies AGA 47 (2) Luvly Ladies AGA 48 (2) Luvly Ladies AGA 49 (2) Luvly Ladies AGA 50 (2) Luvly Ladies AGA 51 (2) Luvly Ladies AGA 52 (2) Luvly Ladies AGA 53 (2) Luvly Ladies AGA 54 (2) Luvly Ladies AGA 55 (2) Luvly Ladies AGA 56 (2) Luvly Ladies AGA 57 (2) Luvly Ladies AGA 58 (2) Luvly Ladies AGA 59 (2) Luvly Ladies AGA 60 (2) Luvly Ladies AGA 61 (2) Luvly Ladies AGA 62 (2) Luvly Ladies AGA 63 (2) Luvly Ladies AGA 64 (2) Luvly Ladies AGA 65 (2) Luvly Ladies AGA 66 (2) Luvly Ladies AGA 67 (2) Luvly Ladies AGA 68 (2) Luvly Ladies AGA 69 (2) Luvly Ladies AGA 70 (2) Luvly Ladies AGA 71 (2) Luvly Ladies AGA 72 (2) Luvly Ladies AGA 73 (2) Luvly Ladies AGA 74 (2) Luvly Ladies AGA 75 (2) Luvly Ladies AGA 76 (2) Luvly Ladies AGA 77 (2) Luvly Ladies AGA 78 (2) Luvly Ladies AGA 79 (2) Luvly Ladies AGA 80 (2) Luvly Ladies AGA 81 (2) Luvly Ladies AGA 82 (2) Luvly Ladies AGA 83 (2) Luvly Ladies AGA 84 (2) Luvly Ladies AGA 85 (2) Luvly Ladies AGA 86 (2) Luvly Ladies AGA 87 (2) Luvly Ladies AGA 88 (2) Luvly Ladies AGA 89 (2) Luvly Ladies AGA 90 (2) Luvly Ladies AGA 91 (2) Luvly Ladies AGA 92 (2) Luvly Ladies AGA 93 (2) Luvly Ladies AGA 94 (2) Luvly Ladies AGA 95 (2) Luvly Ladies AGA 96 (2) Luvly Ladies AGA 97 (2) Luvly Ladies AGA 98 (2) Luvly Ladies AGA 99 (2) Luvly Ladies AGA 100 (2)	Gunfighter Revolution Duckiest Bull's Darts Dungeon Hero Snakey Collection Breed 96 Frustrana Mr Man Olympics (2) Soudbuster Circus Party Party Quillette WB2+ EDUCATIONAL Little MPPS WB2+ Ask Me Anything Discover! Trivia AGA Electronics Vols WB2+ (3) Alpha Recognition WB2+ Trivia 1 WB2+ (2) Amos Language Tutor Highway Code Kids Quiz Kids Quiz #1 Kids Quiz #2 Kids Quiz #3 A-Z Pimpout Kids DTP (2) Paint 1 Kids Quiz #4 Kids Quiz #5 Kids Quiz #6 Kids Quiz #7 Kids Quiz #8 Kids Quiz #9 Kids Quiz #10 Kids Quiz #11 Kids Quiz #12 Kids Quiz #13 Kids Quiz #14 Kids Quiz #15 Kids Quiz #16 Kids Quiz #17 Kids Quiz #18 Kids Quiz #19 Kids Quiz #20 Kids Quiz #21 Kids Quiz #22 Kids Quiz #23 Kids Quiz #24 Kids Quiz #25 Kids Quiz #26 Kids Quiz #27 Kids Quiz #28 Kids Quiz #29 Kids Quiz #30 Kids Quiz #31 Kids Quiz #32 Kids Quiz #33 Kids Quiz #34 Kids Quiz #35 Kids Quiz #36 Kids Quiz #37 Kids Quiz #38 Kids Quiz #39 Kids Quiz #40 Kids Quiz #41 Kids Quiz #42 Kids Quiz #43 Kids Quiz #44 Kids Quiz #45 Kids Quiz #46 Kids Quiz #47 Kids Quiz #48 Kids Quiz #49 Kids Quiz #50 Kids Quiz #51 Kids Quiz #52 Kids Quiz #53 Kids Quiz #54 Kids Quiz #55 Kids Quiz #56 Kids Quiz #57 Kids Quiz #58 Kids Quiz #59 Kids Quiz #60 Kids Quiz #61 Kids Quiz #62 Kids Quiz #63 Kids Quiz #64 Kids Quiz #65 Kids Quiz #66 Kids Quiz #67 Kids Quiz #68 Kids Quiz #69 Kids Quiz #70 Kids Quiz #71 Kids Quiz #72 Kids Quiz #73 Kids Quiz #74 Kids Quiz #75 Kids Quiz #76 Kids Quiz #77 Kids Quiz #78 Kids Quiz #79 Kids Quiz #80 Kids Quiz #81 Kids Quiz #82 Kids Quiz #83 Kids Quiz #84 Kids Quiz #85 Kids Quiz #86 Kids Quiz #87 Kids Quiz #88 Kids Quiz #89 Kids Quiz #90 Kids Quiz #91 Kids Quiz #92 Kids Quiz #93 Kids Quiz #94 Kids Quiz #95 Kids Quiz #96 Kids Quiz #97 Kids Quiz #98 Kids Quiz #99 Kids Quiz #100
---	---

AGA = 1200 only WB2+ • Not A500 All titles are on ONE disk unless otherwise stated in brackets.
This is only a small selection that's available from US - LOTS, LOTS, LOTS MORE AVAILABLE!

"This year, January comes before Christmas!" Hit the January Sale at Golden Image NOW

Amiga Mice

Replacement Mouse	£6.95	£4.95
MegaMouse 400	£12.95	£9.45
MegaMouse Plus (3 Button)	£14.95	£9.95
New Black Mouse	£9.95	£7.95
Pen Mouse	£12.95	
(ideal for CAD)		



Ram Boards

RAM CARDS A1200	
A1200 with clock and 4Mb (not upgradeable)	£49
A1200 with clock 33MHz FPU and 4Mb	£64 £59
A1200 with clock and 8Mb	£65
A1200 with clock, 33MHz FPU and 8Mb	£80 £75
33MHz FPU inc. crystal	£15

Controllers

Catweasel for A1200 - allows you to connect High Density Disk Drive fits on to clock adapter leaving IDE interface free for our 4 way buffered interface	£59.00
Catweasel for A4000	£59.00
Buddha IDE Controller for A1500/2000/4000	£55.00
AT-Bus 2008 IDE controller	£69.00
Catweasel plus Buddha for A1500/2000/4000	£79.00
Oktagon 2008/4008 SCSI Controller	£99.00
Multiface III serial and parallel I/O card	£79.00
TD-1200 PCMCIA controller for IDE CD ROM Drive	£69.00



New GI-Quattro Buffered Interface for A1200

Buffered interface for A1200 with full IDEFIX'97 software allows you to connect 4 ATAPI devices to A1200

"Amiga Health Warning"
Fear not with our Buffered Interface

AlfaQuattro Interface

Specially made hardware and software. Allows 4 ATAPI devices, ie, 2 IDE hard disk & 2 IDE CD Rom to Amiga 4000 internal IDE controller

Joysticks & Joypads

Amiga Joysticks	£9.95
Amiga Joypads	£9.95

Floppy Drives

External Floppy Drive for all Amigas	£39.95
Internal Floppy Drive A500/500+	£38.00 £25.00
Internal Floppy Drive A600/1200	£38.00 £25.00
Internal Floppy Drive A1500/2000	£35.00 £28.00
Internal Floppy Drive for Tower user with face plate	£35.00 £28.00



IDE Hard Drives for A1500/2000

Hard Drives plus Buddha IDE Controller	
1.2 Gig	£189.00 £169.00 Starbuy
Hard Drives plus Buddha IDE Controller 2.1 Gig	£230.00 £189.00 Starbuy

Winner of Gold Format Award in Amiga Format February 1997

Best pricing on CD ROM Drives & Hard Drives.

We can supply CD ROM solutions for ALL Amigas from A500 to A4000. Four top titles free: Nick Faldo's Championship Golf; Syndicate; Pinball Fantasies & The Chaos Engine.

All our External IDE CD ROM Drives have built in power supplies (they do not draw power from your Amiga)
Different options to connect CD ROM drives to A600 or A1200

- Use Internal IDE port with AlfaDuo if you have 2.5" Hard Drive (will be with full IDEFIX software).
- Use Internal IDE port with Alfa-Quattro interface if you have 3.5" Hard Drive (will be with full IDEFIX software).
- PCMCIA external interface option available.

All CD ROM drives have play CD facility.



	External A600/A1200	Internal A1500/A2000	External* A500/A500+	Internal A4000
Quad speed CD ROM for	£149.00 £139.00	£119.00 £109.00	£129.00 £119.00	£109.00 £99.00
Eight speed CD ROM for	£149.00 £159.00	£139.00 £129.00	£149.00 £139.00	£129.00 £119.00
12 Speed CD ROM for	£179.00 £169.00	£149.00 £139.00	N/A	£139.00 £129.00
16 Speed CD ROM for	£189.00 £179.00	£159.00 £149.00	N/A	£149.00 £139.00

*(for A500/A500+ Alapower hard drive controller and Hard Drive is required). A1500/A2000 supplied with IDE controller & software. A4000 supplied with AlfaQuattro interface & Full IDEFIX software.

IDE 2.5" Hard Drives for A600/1200

All 2.5" Hard drives come formatted and installed with Workbench, including IDE Cable, screws, software and instructions supplied. (please check for availability)

60Mb	£59 £49	80Mb	£69 £59
120Mb	£79 £69	170Mb	£85 £69 Starbuy
250Mb	£89 £79	340Mb	£109 £99
420Mb	£119 £109	540Mb	£129 £119
810Mb	£149 £129 Starbuy		

IDE 3.5" Hard Drives for A1200/4000

850Mb	£129 £105	1.7Gig	£155 £129
1.2Gig	£135 £110	3.2Gig	£200 £179
2.1Gig	£175 £139	*5.0Gig	£329 £279
3.8Gig	£229 £199		

We will partition and format Hard drives and install Workbench. *5.0Gig will fit and work on Amiga Computers contrary to warnings given (Amiga Format Gold Award winner August 1997)

Memory

4Mb Simms	£30 £15	8Mb Simms	£30 £25
16Mb Simms	£65 £55	32Mb Simms	£145 £100

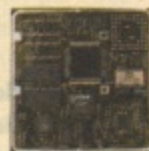
Zip Rams (suitable for A3000, Alapower, At-Bus 2008 & Oktagons) every 2Mb

Accelerator for A1200

Viper MKV 1230 50MHz plus SCSI interface	
with 4Mb	£159.00
with 8Mb	£179.00
with 16Mb	£199.00
Viper MKIV 42MHz + 4Mb (not upgradeable)	£80.00 £70.00

Accelerator for A600

Viper A630 40MHz + 4Mb (not upgradeable)	£110.00
Viper A630 40MHz + 8Mb (not upgradeable)	£120.00



Miscellaneous Products

Philips monitor to Amiga cable	£6.00
Printer cable	£5.00
SCSI case with PSU	£49.00
Boot selector switch for A500/2000	£10.00
44pin 3 connector cable	£5.00
44pin 2 connector cable	£3.00
40pin 3 connector cable 90cm	£5.00
AlfaQuattro 3x40pin Interface & IDE cables	£39.95
DD floppy disks (50) including multicoloured disk labels	£13.00
DD floppy disks (100) including multicoloured disk labels	£25.00
3.5" Hard Drive Kit for A600/1200 + Install software	£15.00
Diskbox to hold 10 discs	£1.00
Animal Jungle design and Dinosaur design	£2.00
Optical Mouse Mat	£5.00
2 in 1 Scanner/Mouse Pad	£3.00
Can be used as a memo pad	£3.00
Amiga Power Supply 4.5 amp	£29.95 £15.00
Plain Wristrest	£2.00
GI-Quattro buffered interface with cables but no software	£39.00
A500+ 1Mb ram card	£20.00
A600+ 1Mb ram card	£20.00
ROM Chip for A500 or A600 V2.05	£19.00
CDROM Drives (Bare) For internal fitting. Requires interface and software	
IDE 4speed	£49.00
IDE 8speed	£59.00
IDE 12speed	£79.00
IDE 16speed	£79.00
Super value Software pack: DpaintIV + Digita Wordworth3 and Print manager + Dennis and Oscar Games	£15.00
Chaos pack AGA: 4 great games (on disks) (The Chaos Engine, Syndicate, Pinball Fantasies, and Nick Faldo's Golf). All Amiga Format Gold winners	£5.00
Weird Science 3D Images on CD	£5.00
Weird Science 1078 Weird Images on CD	£5.00
LSI compendium volume 3 over 600mb of PD on CD	£5.00
Audio Cables for CD ROM's Stereo jack (3.5mm) plug to 2 x RCA phono plugs 1.2 meter long	£5.00
Audio mixer 2 x RCA phono plugs to 2 x RCA phono plugs/sockets 1.8 meter long	£6.00
2x RCA phono plugs to 2x RCA phono plugs 1.2 meter long	£5.00
Multipass OCR Software suitable for all scanners and direct scanning support for hand scanners by Migraph, Golden Image, AlfaData and Power	£49.00 £10.00

All prices include VAT. Please add £3.50 P&P for items under £30.00, £5.00 for items over £30.00, £8.00 P&P for Scanners, Speakers & Hard Drives, £10.00 courier for next day. Tax Free Export Orders Welcome.

Golden Image accepts Mastercard, Visa, Switch, Cheques & Postal Orders. E&OE. Prices subject to change without notice. Goods subject to availability. Specifications subject to change without notice.



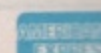
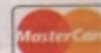
Golden Image (UK) Ltd

Unit 65, Hallmark Trading Estate, Fourth Way, Wembley, Middx HA9 0LB

Sales Hotline No: 0181 900 9291 Fax: 0181 900 9281

http://www.reserve.co.uk/gold Talking Pages: 0800 600900

Our standard terms and conditions apply - available on request. We do not supply on a trial basis.



Q&A

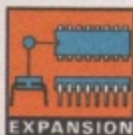
Never mind how baffling your technical problems are, put them to our panel of experts and they'll do their utmost to astound you, with in-depth knowledge and solutions. Don't forget to give us as much detail on your systems and problems as possible.

Logos

Mysteries and meanings...



Solutions to those everyday troubles with your Workbench.



If you need help getting more from your Amiga, just ask!



All your Internet and general comms problems swiftly solved.



Trouble making your Amiga sing? We've got the answers here.



Technical matters beyond the scope of plug-ins and plug-ons.



Answers to queries on particular pieces of software.



General queries which just don't seem to fit in anywhere else.



Specific help with CD-ROM solutions and driver problems.



Problems with art and design? Help and advice is at hand.



Printers, monitors, we'll solve your peripheral blues for you.

Practical printing



I'm upgrading my system following a static period of about 4 years, having recently bought the accelerator/RAM/CD.

Could you please answer the following questions:

1) With a maximum budget of about £200, would you say that the Epson Stylus still rules the roost as printers go? If not, which printer do you recommend? I'm looking for a clean, crisp output with word-processors such as Final Writer and Wordworth and decent quality graphic-dumps (I do a lot of image processing using Vidi Amiga RT to get my basic images and then use Vidi, Image FX, PPaint and DPaint 4 AGA to process and manipulate them).

2) Would Workbench 3's printer-drivers be adequate to drive the printer or should I buy a dedicated print-program such as Turbo Print? I've heard that Gateway 2000 have struck a deal with Epson to supply Workbench drivers with future printers; am I better off waiting for these to arrive before I purchase a printer? When is this likely to be?

3) Would adding a SCSI interface to my accelerator allow me to add a ZIP-drive (I don't want to have to keep disconnecting the CD-drive to use it)? My four year old hard drive is getting quite full now but I'd rather not bin it and replace it with another, even though for the price I paid you can now get over 1 Gb. Hope you can help.

John Orrell, Blackpool

1. Yes, basically. The HP deskjets are nice, solid desktop printers and have a slight edge on black and white, but for colour work the Epson Stylus range are as good as they come. Hunt out the Epson Stylus 600, it may be a gnat's over your budget, but it is worth it. The 400 is a very able printer for enough under your budget to

afford Turboprint or Studioprint too, but the Hewlett Packard 690c is a very tempting alternative to this lower resolution model.

2. No, even when the new drivers come out they are unlikely to be as good as such a specialised piece of software. The Workbench drivers tend to be acceptable for black and white, but the colour balance, dithering and so on that make for a really good colour output you will only get out of a professional package.

3. You don't make it clear, but if you are using a squirrel interface then you have a SCSI connection. Up to seven devices can be connected to a Squirrel. Check on the back of your CD player and you should see an output SCSI socket. The Zip can connect to this. You will have to remember to set the SCSI ID of the ZIP differently to that of the CD-ROM, and you will have to remember to set the ZIP as the terminated device, not the CD-ROM drive. You should find a full explanation in the Squirrel manual. Otherwise, yes a SCSI connector on your accelerator will do the job just fine.

Broken PCMCIA



I bought a CD-ROM drive some months ago, connected to my A1200 via the Squirrel interface. My problem is that I also had a memory board fitted with all 8Mb configured, and the programs started to crash.

I didn't know then that you can only have 4Mb or it will clash with the PCMCIA port, so if you could answer these questions I'd be very obliged.

1) I've broken a few pins in my PCMCIA slot, can I get it repaired?
2) If not, which would you suggest, get another second-hand A1200, or an accelerator with a SCSI interface?

3) Also, which would be the

biggest hard drive that I could get hold of for around £100? (2.5 or 3.5)

Carl Handley, N Wales.

1. They're a right pain those micro pins on PCMCIA's. You would not believe the number of A1200s with broken PCMCIA ports we've got lying around. The PCMCIA port would have to be replaced, a fiddly task but not impossible. Contact any of the repair houses that advertise in the mag and ask them how much they would charge, then decide for yourself if it is worth it!

2. If it is just the SCSI adaptor you want the PCMCIA for then don't worry about it, go for the accelerator with SCSI. Not only will you get an Amiga that is faster and far nicer to use, but if you get a card with a really good SCSI adaptor such as the Blizzard, you'll have damn fast SCSI too.

3. The one with the most storage space I would guess. The tip is to look at adverts in mags, visit your local shop and look around. It is pointless asking us to do this for you as by the time you read the answer it would be wrong. Hard drive prices seem to drop every couple of weeks.

Prepping up



I recently bought a new 1Gb hard disk at an auction. I've fitted it in my controller but my Amiga doesn't recognise that it's there. I'm using an Amiga 500+ with the GVP SCSI controller.

A friend of mine, who knows lots about Amigas, said I needed software to prep, install and partition the drive – and that there was still a place selling GVP equipment/software in Germany. Could you give me the address or tell me of some other place I could get this software?

Iain Coleman, Plymouth



▲ The Epson Stylus photo – top of the range colour inkjet, but baby brothers Stylus 400 and 600 do a great job on a tight budget.

The GVP SCSI controller was shipped with a disk containing GVP's software package for formatting, partition and prepping of drive. If you have lost your disk, any PD library should be able to supply you with a disk of hard drive prep tools.

GVP still exists, sort of, as GVP-M, who bought out much of the old GVP when they went bust. You can ring them in the states on +1 215 633-7711 or ring their UK distributors Power Computing on (01234) 851500. If you have internet access, visit their website on www.gvp-m.com where you can download the latest version of their expert prep software.

Assign too many



I've an Amiga 1200 with a 3.5" 2.1Gb hard drive and I have an error come up on the DOS screen just before I get to the Workbench screen. The message is: can't find WORK:/GAMES/T.

So far it hasn't done any damage to anything. I've also run WORK through Quarterback tools from your excellent cover CD to try and repair it. It doesn't work so please can you help me with this annoyance? Keep up the splendid work and long live the Amiga!

Craig Nixen, Sheffield.

You will be glad to know that this is a simple problem, and rather a common one too. As your machine boots up, it runs a list of commands in a file called user-startup in the "s" directory of your Workbench. When you install a program, it isn't uncommon for it to add commands to this file.

The most common one is what is called an assign, a command which tells the computer where it can find the program you have just installed. Somewhere in your user-startup, there is a command, probably an assign, calling to the directory work:games/t.

It is almost certainly an assign to a program you installed and then removed. If you load s/user-startup into a text editor (such as ed which comes with Workbench) you should quite easily be able to locate the appropriate line and then remove it.

If you are unsure about what you are doing then rather than deleting the file, put a semicolon in front of the line. This "comments out" the line, meaning the instruction will be ignored. If you do this, it is easy to reinstate the line if things go wrong by just removing the semicolon.

If you are too nervous even for this, there is a solution, but it is a bit of a sellotape and string fix. Try opening a shell and typing:

makedir work:games/t

This will create an empty directory for an assign to read to. There are circumstances in which this won't work, and you'll have to follow the solution above.

How many questions?



I do have quite a few questions that need answering. So I'd be grateful if you could please help me?

- 1) Where can I get an A4000T in the case design, like the one that you printed on page 97 in the November issue?
- 2) Can I still get an original A4000 keyboard and mouse?
- 3) In a rival magazine I read that the A4000 came with a HD floppy drive that can format up to 1.76Mb. Is this true?
- 4) If I can get said keyboard will I have; Ctrl, Amiga, Amiga reset, plus a button on the case?
- 5) What exactly is AHI?
- 6) Can I fit Kickstart 3.1?
- 7) Can I have 4 SIMM slots on the motherboard?
- 8) Can I have 8Mb of Chip RAM fitted?
- 9) Can Zorro III slots take Zorro II cards, PCI cards and RAM cards?
- 10) Can I have 2 video slots totally separate from the Zorro slots?
- 11) Does Workbench 2.X + recognise hard disks bigger than

Tech Tip: Linguistics



OK, we're going light on the techy stuff this month. No, we aren't going to stop giving you the inside story on everything Amiga, we're just going to do it in a lighter, fluffier, more Christmassy sort of way. Put aside your screwdrivers and lay down the soldering iron, for this month we bring you a quick guide pronunciation. So, for the benefit of all those people who call us up asking for help doing 3D renders with their old "immer-jine" cover disks or talk about LightWave "aminations" – some of the weirdest readers and some well known Amiga professionals both – Haypey Tchrissemarse.

AGA – ay-gee-ay:

Aga (ahgah) is a kind of stove, not a chipset.

Aminet – am-ee-net:

Not Amy-net. Whatever anyone thinks, even Urban Müller. Same story for many other words beginning in Ami. You wouldn't talk about an Amy-gah 1200 would you?

Cache – cash:

We've often wondered what a level 2 catch was.

CPU – see-pee-you:

If anyone knows what a PCU is please tell us.

CU Amiga Magazine – see-you ah-mee-ga mag-ah-zeen: That's right, like how it is spelt. No, those are initials, it isn't Coo Amiga. Nor is it a silent CU, we are not called Amiga Magazine. Oh, and for the sake of our northern readers, magazine is pronounced "mag-ah-zeen", not "booke".

GIF – gif:

The G stands for graphics, not jraphics. Hence gif, not jif. Simple, but we get this one wrong all the time.

Imagine – im-adj-in:

This is a standard English word and is pronounced exactly the same, no strings attached.

Jpeg – jay-peg:

Just think of a small bird with a wooden leg.

OS – oh-ess:

Pronounce the letters not the word. Oss is horse in illiterate.

SCSI – scuz-zee: Pronounce the word not letters... fussy eh.

Tyschtschenko – tish-tcheng-coe: Well... probably!

4Gb?

12) Does Workbench 2.X + recognise hard disk partitions bigger than 4Gb?

13) Why do I need a graphics card and what do they do?

14) What do I need to start music sampling/recording etc on an Amiga?

15) Can I have an internal ultra wide and fast SCSI 3 in place of the standard SCSI?

16) Can I also have an external 50 pin centronics style SCSI?

17) Are the Commodore 15 pin 31 KHz monitor adaptors still around?

Mr C Hall, Nottingham.

You're certainly a curious sort aren't you. Is 17 questions enough? Are you sure you don't have a few more things that need clarification? OK, let's get this over with.

1. You can't. That isn't an A4000t, it's an A1200t in a Micronik tower case.

2. Yes, but you'll have to shop around a little.

3. It is shipped with an HD mechanism, but configured to work as a 880k drive. There is an alternative drive which happily formats 1.76Mb but it's unlikely you would find one shipped as standard. Blittersoft will sell you one for around £55. Call them on: 01908 261466.

4. Yes.

5. It is a program for handling Amiga music. It is what is known as a retargetable system, which means that a program can send sound data to AHI instead of the hardware and then AHI can send it to whichever hardware you happen to have.

This means that a program need only be written to send sound out to AHI rather than for every possible sound card someone might want to use with it.

6. Check out the advert for Power Computing and you should see the range of OS3.1 chips/Workbench bundles they do. Of course, if you have a nice up to date OS3.1 A4000t you aren't going to need to upgrade.

7. You don't have much choice!

8. No. 2Mb is the absolute limit on chip RAM.

9. Zorro 3 takes Zorro 2 card but not PCI cards. No Amiga currently accepts PCI cards, but watch this space.

Zorro is not where you plug ram cards in, that's what the

SIMM sockets are for.

10. The video slot is for getting video information to a Zorro based graphics card. You don't want it separate from a Zorro slot.

11 and 12.

Amigas on the whole do not recognise a single partition larger than 4.3 Gb, but this problem can be solved by having multiple devices or using one of the various partition size hacks.

13. Graphics cards output images faster, more colourfully and at higher resolutions than Amigas without. You will be able to run a high resolution Workbench with thousands of colours without flicker and it will still move more smoothly and quickly than before.

14. That is rather beyond the scope of an answer in Q&A but the basic answer is that first you will need to get a sampler. 8 bit will do for casual work, but for high definition sound quality you need 16 bit. You can go for a parallel port or PCMCIA sampler on an A1200/600 but much better is to go for a sound card on a Zorro machine. You will need to invest in a decent microphone if you want to record live, and you will need plenty of hard drive space for samples. A good sample editor is a must - check out the review of HiSoft's Sound probe elsewhere in this issue, and you'll need a decent tracker such as Octamed Sound Studio. We still have a few copies of our March issue with OSS on it, so turn to the back issues page now!

15. Yes. It's all a matter of the adaptor you use. The new phase 5 accelerator boards come with ultra wide SCSI 3. SCSI does not get much faster.

16. Yeah, if you buy the right cable. SCSI has loads of different connectors on it, just get the cable that matches the two things you want to connect.

17. Yes, check out the ads,



◀ A1500 - the next generation. The Micronik tower confusingly shares a name with an old A2000 like release from Commodore.

1. Yes, the A1500 comes with Zorro slots. However, what people mean when they say A1500 is not necessarily clear, there are two different machines called the A1500.

One is a desktop machine almost entirely identical to the A2000, with Zorro 2 slots and OCS graphics, with Workbench 1.3 or 2 if you are lucky, the other is the newly released Micronik tower machine based on the A1200. It has Zorro 3, AGA chipset and an A4000 style accelerator slot.

Make sure that you know what you are getting, these are two completely different machines.

2. The micronik busboard is the best known one. There is also one from RBM, and the soon to be released Ateo busboard.

The Ateo differs from the other two in that it is not Zorro, but cards for it will be a lot cheaper. It is expected to be a similar cost to the other two but come with a graphics card.

3. I would guess that this means an A500 in one of the very old upgrade cases to make it like the original A1500. An A500 cannot be made to work like an up to date AGA, Zorro 3 Micronik A1500.

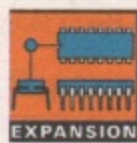
4. The A600 does not have an accelerator slot the way the A1200 does. Someone in theory could build an A600 Zorro busboard but it would involve a lot of difficulty to attach trickery and would sell far too little to pay back development costs, so don't wait up.

5. No, sorry. A Zorro board would require custom chips to be made up, wouldn't save much money and you'd have to be able to confidently solder hundreds of tiny surface mount components and expensive CMOS 'touch-em-and-they die' chips into a delicate multilayer plate - through PCB. Forget it.

6. Details on Forgotten Forever are a little sketchy at the moment. The publication has not been sorted out yet so no price is fixed, but £29.99 is a pretty normal price these days. We will put a demo onto the CD as soon as there is one to put on!

there are loads of companies advertising that or identical products in this very magazine!

A1500 or A1500?



1) I'm thinking of buying an A1500. Does it come with Zorro slots?

2) If not, what busboard can I buy (maybe a Micronik one)?

3) I read in my local classifieds of an 'A500 upgraded to A1500'. Is this possible?

4) How can I attach a busboard to my brothers A600?

5) If there isn't any commercial option, can you please, please show us how to DIY one?

6) How much do you reckon Forgotten Forever will cost, and will you have a demo of it soon?

Thanks for answering my questions and please (if you've got any) can I have one of those lovely Amiga stickers?

Simon Preston, Birmingham.

A to Z



All you festive bunnies get into the spirit of things by compiling a list of top-notch pressies from Santa Claus... On the other hand, John Kennedy fills his stockings by listing Amiga related D Words !?!

D is for...**Datatype**

A unique Amiga concept, which separates an application from decoding data. Applications which support Datatypes can save and load information stored in any format: as long as a Datatype exists.

There are Datatypes for almost all file types including GIF and JPG graphics files.

Date

AmigaDOS command which either displays the current system time and date this will only be accurate if the Amiga has a battery-backed clock. Date can also be used to set the time from the Shell, in which case the battery backed clock (if present) will also be changed.

Debug

The act of checking a program for errors. There is also a "secret" debug menu option available from the Workbench which provides options for clearing unused memory and starting RomWack mode; a little known debugging facility which allows the Amiga to communicate with another terminal over a serial link.

Default Tool

The name of the application which a file will launch when it is double-clicked. For example, a text file may have the name of your word processor as its Default tool.

Delete

AmigaDOS command for removing unwanted files and directories. This is a powerful command, especially when used with wildcards and pattern matching, so you should treat it with some respect.

Files which have been deleted cannot be recovered, at least with standard AmigaDOS commands. You will need to resort to a program such as AmiBack or Quarterback Tools, and even then there is no guarantee.

Depth Gadget

Most Amiga Workbench windows have little buttons in the surround-

ing frame. The button which usually appears in the very top right is the Depth Gadget, it shuffles the window so that it appears in-front or behind of other windows.

The Click-to-Front commodity is useful if you don't like the confusion sometimes incurred by the Depth Gadget.

Device

In Amiga terms, a Device is either a physical entity (such as a disk drive, printer or serial port) or a piece of software pretending to be a physical entity (such as a pipe or ram disk). A device is where data is sent when you want something to happen, or where data is read from.

The software which provides the interface between the Amiga system and the device is called the "device driver".

Devs

The directory which contains the list of Device Drivers used by the Amiga.

DH0:

Common name of a hard drive fitted to an Amiga. This is the name of the first partition on the drive: subsequent partitions are named "DH1:", "DH2:" and so on.

You can change the name using the DiskTools utility, but beware: some programs will still try and reference DH0:. You can get around this by using the ASSIGN command, for example, "assign dh0: newhd0:".

Dir

An AmigaDOS command which generates a list of the files and directories contained in the current directory. If a path is provided, then dir creates a list of files at that location.

Directory

Part of the file system, and a way of keeping similar files together (or different files apart). Although the files are all stored in one place on the disk it is possible for you to create virtual directories in which files can be places.

For example, the C directory on

the Amiga Workbench disk contains all the most useful AmigaDOS command, whereas the DEVS directory contains the device drivers.

DiskChange

An AmigaDOS command used to inform the operating system that a drive now contains a new disk. This is normally not required, as the Amiga is constantly checking the floppy drives to see if anything new is inserted.

However, with older drives (for example, 5.25" drives) or some removable hard disk systems, this command might be needed.

DiskCopy

An AmigaDOS command, and a very useful one at that. DiskCopy makes a duplicate of an ordinary, formatted AmigaDOS disk. Use it to back up your Workbench boot disks or coverdisks. It cannot be used with protected disks (such as games).

DiskDoctor

Included with earlier versions of AmigaDOS, DiskDoctor could be used to try and rescue data stored on corrupted floppy disks.

Sometimes it worked, most times it didn't. One annoying habit was the way in which DiskDoctor renamed the disks it worked on as "Lazarus", this triggering countless virus scare stores.

DiskSalve

Vastly improved version of DiskDoctor, which also supports hard disks.

Display

An AmigaDOS command which launches the utility used to select the current Display Mode.

Display Mode

The combination of screen resolutions (the number of pixels across and down), screen colours and refresh rates which define a particular display.

The Amiga has hugely flexible screen modes, ideal for both games and applications. A plug-in graphics card expands the number

of Display Modes still further.

Dithering

A process for faking colours, for example, a screen mode may have only sixteen colours available, but by displaying neighbouring pixels in colours of the right proportions, other colours may become visible.

Also used by black and white printers to give the impression of shades of grey.

Dork

Person who writes virus software, or complains about the price and lack of decent Amiga software whilst simultaneously copying commercial software from their mates.

Double-click

A quick mouse-clicking action performed on an icon to launch a program. A single-click selects the icon, a double-click starts it loading.

Drag

A selected icon can be dragged to a new location if the left mouse button is still held down whilst the mouse is moved.

This can be used to reposition icons, or "drag and drop" files to new locations or onto special "App Icons" which appear on the Workbench. For example, Personal Paint creates an Applcon on the Workbench: drop a picture file onto it, and it will be loaded and displayed automatically.

Drawer

Even though the Amiga file system does support directories, you're quite possibly more familiar with Drawers.

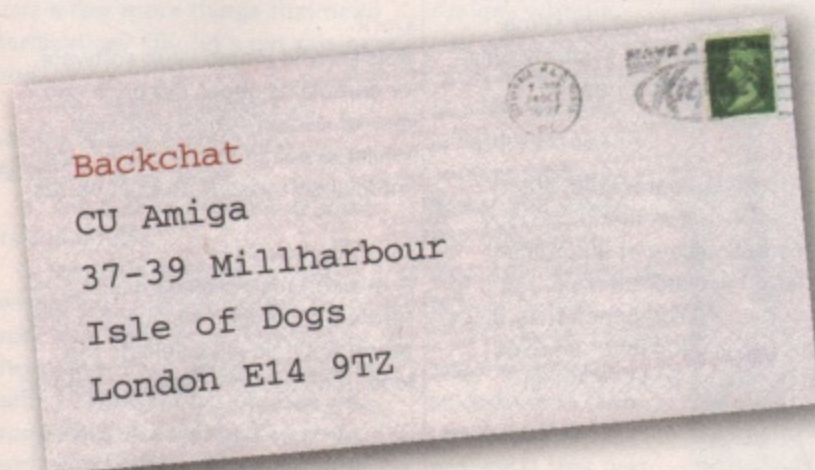
These are directions which appear when you look at the icons stored in a disk. In fact, they are simply icon files with the same name as the directory: for example, if a directory called "games" has an associated icon file called "games.info", then you can open the directory and see what is inside by double-clicking on the icon.

From the Shell, typing "dir games" would have the same effect.



Backchat

What have you got to say for yourself? Hmm? Well come on, out with it! Put your point of view down on paper or E-mail it to: backchat@cu-amiga.co.uk



Barmy from Burnley

As a perfectly sane and clear-headed person, I consider myself within my rights to express my undying feelings to you on what a truly super-duper magazine you write for us Amiga-owning folks. Can I please have a signed photograph of Kirstin Ritchens?

Oh, by the way, I have a (potentially) really cool idea for a future hardware project – as a Jean Michel Jarre wannabe, I have a huge keyboard, loads of crazy sound samples and a large cape for prancing around on stage. All I need now is a laser and some way to control it from my humble '030 A1200. Any ideas?

Absurdity Personified, Alpha Centauri

We shouldn't really be printing this. **Hector Davidson, Somerset**

"How about having two display channels? For a start you open up a new era of two player games – Battleships, racing games with dual viewpoints..."

It'll only encourage him. Kirstin, the CU Amiga marketing dynamo, is unfortunately unavailable for autograph signing at the moment. As for your laser control problem, try our AIR Link project from the November issue of CU Amiga.

I'm cracking up

The CD-ROMs on your covers are tops – no question. However, on collecting the last one I noticed the plastic case was badly cracked. The girl said "Yes, go and pick any of the others". The sad thing was that only one out of six cover disks was not so damaged. This has been noticed in Smiths too. Would it be practicable to pack these mags alternately – one right way up, the next upside down? That would mean a saving in depth.

Nice idea, but not practical really. When you took the first one off the shelf, the next would be upside down or back to front, which wouldn't do our sales any good. However, if you do get a bad disk you can return it to our normal disk returns department for a free replacement.

Double vision

While wondering about monitor options I had an idea that Gateway could incorporate into the next Amiga. How about having two display channels? For a start you open up a new era of two player games – battleships, racing games with dual viewpoints etc. Education programs could have teacher/pupil screens. But best from my point of view would be two screen paint programs.

John Gray, London

Not a bad idea that. A new Amiga certainly needs some unique selling points, and this would be one. There are loads of potential uses, not least video work. What about it then Amiga Inc?

User groups

The main point of my E-mail is Amiga user groups. What has happened to them all? During these hard times, which I might add are starting to look very promising, Amiga users need contact with each other whether by magazines, the Net or BBSs, but what about Amiga user groups?

I can remember when nearly every county in the UK had an Amiga user group. How about a page in CU Amiga for groups to advertise or for individuals to try to make contacts in there area (free of course)?

No name supplied.

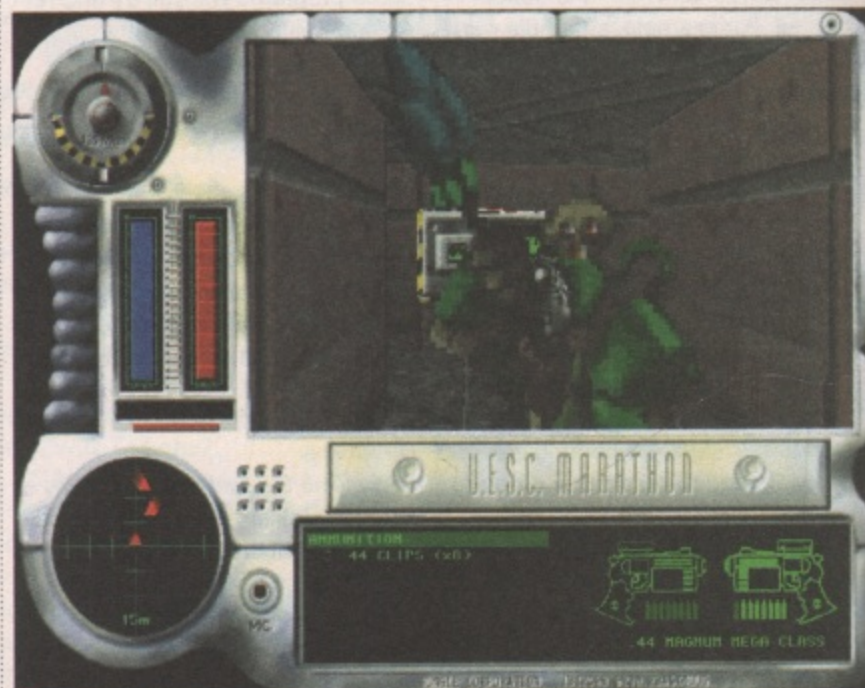
We'll do just that. Anyone who has a user group, or wants to start one, should send their details to:

**User Groups, CU Amiga,
37-39 Millharbour,
Isle of Dogs,**

London E14 9TZ. If and when we get a few, we'll start up a regular column with contacts for user groups the world over.

Mac gaming

After reading your excellent article



▲ Mac gaming: great idea, but how do you get the ROMs over to your Amiga?

Letter of the month

Return of the Grays

I hope this letter reaches you before any harm has been done. I built an AIR Link from a kit of parts and had been testing it with my VCR remote control when a friend of mine saw it and asked me to get him one. My downfall came when I connected it up to my spare A1200 and had two computers operating from the same remote controller.

I wandered off to get my beans on toast for tea, and I think I remember the lights in the kitchen flickering a little. I was not prepared for what confronted me on my return to the living room. Both computers were scrolling garbage up their screens. I went over to my main Amiga in order to reboot it, but as I approached, the monitor flashed blue and purple and crackled ominously.

I turned around and started towards the mains power socket. As I got closer, both computer screens started acting up. First the text slowed down and then the

intensity started increasing to levels a cathode ray tube just can't handle. I backed off. I swear they were talking to each other.

I left in a hurry to find reinforcements. All my dad would say is he's been expecting something like this for ages, and set off for the cellar to switch us off at the main fusebox. For some reason the isolation switch was on. The electric meter was clocking up power at a rate we'll never be able to pay off even now the VAT's gone down a bit. [It goes on for ages but we'll spare you the rest - Ed]

John Gray, London

Not you again! One thing's for sure, you've got an active imagination! As for that bit about your neighbourhood having a power-cut at the same time (which we cut) has nothing to do with AIR Link, we can assure you. Try eating less cheese at bedtime, and avoid The X-Files for a while.

on Mac gaming, I decided that I'd write in with a few comments.

This is the kind of article which all Amiga users with half-decent systems want; we've all been told how ace the Amiga is at emulating the Mac, and now we know what we can really expect to run in terms of software. Who wouldn't want the chance to play the likes of Duke Nuke 'em 3D on the Amiga?

Having read the article, I'm positively itching to give Mac emulation a shot as was overjoyed to find the massive ShapeShifter software base on the TFX CD.

I still need to get my hands on the Mac ROMs though - could you tell us of a supplier who is willing to supply modern versions of both 500k and 1Mb ROMs in an Amiga-friendly format (i.e. not a Mac disk)? How much should I be looking to pay? Also, you mention that the Mac has an Aminet equivalent; where is this?

Ideally, you'd maybe then go on to run a feature on the rudiments of actually setting up / using / getting the most out of ShapeShifter (depending on how easy or otherwise it actually is), possibly even incorporating details of games suppliers at a good price and PD software on the cover CD.

A ShapeShifter feature would be at least as useful as the tower conversion series which you ran, although this (being software-orien-

tated) would also be useful to people who don't like taking their machine apart. I realise that ShapeShifter comes with AmigaGuide documentation, but a bit of extra information written from a user's perspective or an 'idiot's guide' can't hurt (a couple of pages an issue for a couple of months). Besides, I find that printed

"I left in a hurry to find re-enforcements. All my dad would say is he's been expecting something like this for ages..."

instructions are far more useful than any on-screen documentation (especially having no printer).

Anyway, I'm hoping that - true to form - you'll try to help me here. I'm more than willing to shell out for ROMs, maybe a second hard drive and possibly Fusion - if it's better than ShapeShifter - just to play Mac games, and I doubt that I'm the only one.

Gavin Gunn, via E-mail.

Both ShapeShifter and Fusion include a program you can run on a real Mac which will save the ROM off to a file. Modern Macs can of

course read PC disks natively so you can put in a PC disk (or format a disk as PC) and copy it over.

Now, some Mac ROMs are a full megabyte in length, meaning that if you've got a stock Amiga without a high-density drive you'll have to either compress the 1Mb ROM as something you can then uncompress on the Amiga (LHA, ZIP, etc.) or use a modem or null modem to shuttle it across.

Of course, you should only do this if you own a Mac or have otherwise legitimately paid for the Mac ROM in some way.

As for the Mac's equivalent of Aminet, it's called Info-Mac and is a very poor attempt at a definitive shareware software archive. You can access it with a browser at: <http://wuarchive.wustl.edu/systems/mac/info-mac>

Take a look there and you'll soon realise what an amazing resource we have in the form of Aminet, in case you'd forgotten.

Overseas offers

As an occasional reader of CU Amiga in the States I was thrilled to find the latest demo version of Turbo Print 5 on your cover CD. After using the program I am impressed enough to purchase it.

The problem that arises is since I am in the US, how do I go about doing the upgrade offer? Should I send the voucher to the UK and hope the shipping isn't too expensive (or the wait too long?).

Will the added postage would make it cheaper and easier to upgrade to the full version here and just pay full price? Or perhaps you know of someone honouring this offer over here in the US?

I'm sure you have addressed this in one of the latest issues of your magazine but I have not been able to locate an issue after the August '97 one to find out.

Any help would be welcome!

Johnny Mann, via E-mail

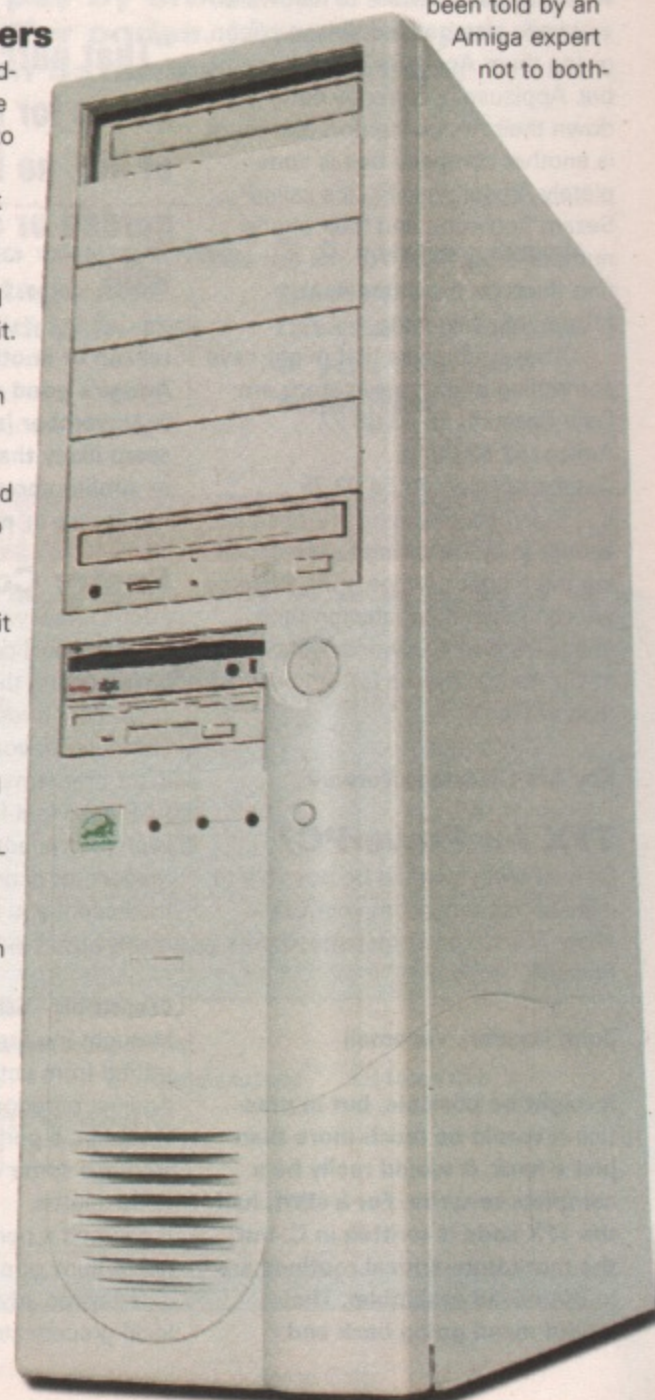
Unless it's specifically stated otherwise, all of our offers are available to all of the readers worldwide.

We don't have a US agent to handle the Turbo Print upgrades, so you should respond to the UK address. There will be an inevitable delay due to postage but these days international mail is a heck of a lot quicker than it used to be years ago.

More misinformation

I will come straight to the point. I want to do non-linear video editing. Looking round I find that PC systems using the MIRO DC20/30 or a host of other capture cards are plentiful, they usually come with Adobe premiere or the like and can also have 3D software for animations etc. How can the Amiga compete?

Yes I realise that I will need a tower system A4000, but I have been told by an Amiga expert not to both-



Continued overleaf ►►►

er with the Amiga as there are no capture cards available. Can you help? If you can't I go PC.

P.S. I already have an A1200, accelerator, 10Mb RAM, 33MHz FPU, CD-ROM and a 540Mb hard drive.

Eddie, Milton Keynes.

You've been sold duff information, as is all too common. The Amiga is still used extensively in the USA for this purpose. There are two main video capture cards you should look at: VLab Motion and DPS Par. Both of them are designed for non-linear video editing. VLab is cheaper and uses an kind of JPEG/MPEG system while the DPS Par card offers higher quality. Call White Knight on 01920 822 321.

Norwegian Amigans

I have noticed that a lot of my fellow Norwegian Amigans don't know where to get software or hardware.

I have also noticed that you keep giving them Applause's phone number. Applause is currently cutting down their Amiga support, but there is another company that is completely Amiga-specific. It's called Sezam Software, and their phone number is 55 10 00 70. You can also find them on the Internet, at <http://www.sezam.no>.

Other companies that might have something of interest in stock are:
Data Ressurs: 55 93 08 27
Amico: 52 82 09 05
Datakompaniet: 73 54 03 75

Oh by the way, even if Applause seems to be deserting us, keep calling them about Amiga stuff. Perhaps we can make them change their minds. And to you wonderful people at CU Amiga, thanks for the best mag in the world.

Kay Are Ulvestad, Norway

TFX for PowerPC?

Do you think it would be possible to include some hack on your CD to allow TFX to run at fast speed on a PowerPC Amiga?

John Haydon, via email

It might be possible, but in practice it would be much more than just a hack. It would really be a complete re-write. For a start, half the TFX code is written in C, but the more time-critical routines are in optimised assembler. That would mean going back and

rewriting it all in C in order for it to be ported to PowerPC code.

There are other concerns too, not specifically regarding PowerPC conversion, but tricks such as using the copper to control the display (rather than chunky pixels) makes adding graphics card support quite a task. A PowerPC version of TFX that was still limited by the AGA chipset would fall far short of its potential. We are looking into this though, so keep reading CU Amiga for more details.

Where's WOA?

After the World of Amiga show in May, you said there was talk of another Amiga show before Christmas. Since then I've heard nothing, despite keeping a keen eye on your mag. Have I missed it, or did it just not happen?

Jamie Stevens, Croydon

It just hasn't happened for one

"That purchase opened me up for another side of life, no longer did I garden or even nag the wife"

reason or another. After the Amiga's good showing at Cologne in November (see News) it would seem likely that a World of Amiga or similar show will be scheduled for Spring or early Summer 98.

Poetry Corner

I don't know whether you welcome non-technical contributions but I have penned the attached just in case. I am a retired "non-technical" computer devotee with an interest in art programs, card games etc.

Please feel free to use it as you wish for the entertainment of the readers, or consign it to the nearest trashcan if you deem that necessary.

Computeritis - Sam Quigg 1997

I bought my first computer when I retired from active toil,
Against boredom and stagnation it would be a perfect foil,
To make some video titles and even write a letter,
It seemed a perfect panacea - I could think of nothing better.

I saw an advertisement in my local grocery store,

Midst cards for massage parlours on a board beside the door,
It said, "I have for sale a Spectrum grey plus two,

Just part with five and twenty pounds and it belongs to you!"

That purchase opened up for me another side of life,
No longer did I garden, or even nag the wife,
Every waking moment saw me alight with joy,
As I strove to understand the whims of my little toy.

Soon I mastered Clive's machine and yearned for something more,
So once again I visited the local grocery store,
To view the cards upon the wall was my mission clear,
Lo and Behold!! upon a card the word "Amiga" did appear.

An Amiga A500 with many games on disk,
At a hundred quid it was really worth the risk,
For with it came a printer and an extra memory board,
And an external floppy added to the hoard.

With the new found purchase I really went to town,
Playing games like "Armageddon" and others of renown,
But alas word processing brought a pang of fear,
The dreaded "Lack of memory" sign on screen it did appear.

An A1200 came my way, again at a bargain price,
Just like new it was, and really very nice,
With dedicated monitor and sound in stereo,
Now I've added "SAYMORE", so it can say "Hello".

This wonder tool at last satisfied my need,
Until I succumbed again to the lust for speed,
By adding an internal storage disk type hard,
And stuffing in the trapdoor slot a four meg memory card.

Have I conquered my addiction, will this all now do,
Still I have some other plans, for as I write to you,
A CD-ROM and Squirrel are fitted now of course,
And a Blizzard board is coming, courtesy Parcel Force!

Sam Quigg, Limavady, N. Ireland

What a pleasant little ode. All you need to do now is dig out your copy of SoundStudio, plug in your sampler and put it all to music.

To the Point...

Deal Amiga Club

Could you mention our club? The Deal Amiga Club meets on Friday night 7pm till 11pm. It's at:
St John Ambulance Hall
Mill Hill
Deal Kent

Deal Amiga Club, via email

Consider it mentioned.

Quick questions

Could you please tell me what Zorro slots are and what is the difference between a 68060 and a 68030 both running at 50MHz.

Paul Groatorex, Bridlington

Zorro slots are expansion slots found on 'big box' desktop and tower Amigas. You could answer the second question yourself if you tried. The 060 is much faster - that's the difference and you don't need to know any more. Take a night school class in semiconductors if you really want to know more, or just keep reading CU Amiga.

You spill my pint?

As the central hive of Amiga knowledge, I am turning to you to settle an argument that I keep having with the landlord of my local pub. It's about an old game: R-Type.

He says the Amiga version was released under the name Denaris by mistake and it was then re-released under the proper R-Type name. I say he's talking rubbish and there never was a game called Denaris. There's a free pint in it for me if you say I'm right.

Ian Morgan, Tadworth

It looks like you both owe each other a pint, as you're both wrong. What happened was that a super-hot German team created Denaris, but it was so similar to R-Type that US Gold (who had just bought the R-Type licence) stopped its release.

However, the Denaris team were then recruited to handle the official Amiga R-Type conversion and did a pretty blinding job of it too. So everyone was happy in the end.



3 ISSUES FREE!

SUBSCRIBE TO CU AMIGA THIS MONTH AND GET 12 ISSUES FOR THE PRICE OF 9*

Complete the form below and send payment to: CU Amiga Subscriptions, Lathkill Street, Market Harborough, Leicester LE87 4PA or if you wish to pay by credit card call our subscriptions hotline on 01858 435350 quoting source and offer codes. Lines are open from 8.30am to 9pm Monday to Friday and 10am to 4pm Saturday and Sunday.

5 GREAT REASONS TO SUBSCRIBE:

- **Save £18.00 on the CD issue, £14.00 on the disk issue**
- **No risk that the newsagent will be sold out of the CD or disk edition you want**
- **All issues delivered to your door so you'll never miss an issue**
- **No charge for postage and packing in the UK**
- **A money back guarantee on un-mailed issues if you are not satisfied**

SUBSCRIPTION HOTLINE 01858 435 350

SUBSCRIPTION ORDER FORM:

Name: Source codes: CD Edition 001B Disk Edition 1A2T Offer codes: CD Edition CD 001D Disk Edition DD 1A2Z

Address: Annual Subscription Rates: Disk version CD version

United Kingdom + NI ☐ £40 ☐ £54

Air Europe + Eire ☐ £55 ☐ £69

Rest of world /air ☐ £75 ☐ £89

Date of Birth: Telephone:

METHOD OF PAYMENT (A receipt will not be issued unless requested)

Direct Debit Instruction to Your Bank/Building Society

Account in the name of

Payments will be deducted quarterly.

Account No

Sort Code

Name and Address of Bank/Building Society

Signature

Date

Please pay Emap Consumer Magazines Ltd. Direct Debits from the account detailed in this instruction subject to the safeguards assured by the Direct Debit Guarantee Banks/Building Societies may not accept direct debit instructions for certain kinds of accounts.



Payment by Credit Cards

Please debit my credit card for the amount shown overleaf.

☐ Mastercard ☐ Visa ☐ American Express ☐ Diners Club

Access/Visa/American Express/Diners Club Account No

Expiry Date

Date

Signature

All other payments

I enclose a ☐ Cheque ☐ Postal Order
☐ International Money Order ☐ Sterling Draft (Please tick)

MADE PAYABLE TO EMAP IMAGES LIMITED

Points of View

They say "tis the season to be jolly" and all that, but here at CU Amiga we still take time-out from the festivities to deliver you some serious rhetoric... Bah humbug!!



Required: one reality check, good condition



Every day we get letters sent to us from enthusiastic readers who have all manner of ideas, plots and schemes to get the Amiga back on track. The trouble is, many of them are not grounded in reality. Here at CU Amiga we're privileged to be able to survey the Amiga scene from a very central

viewpoint. We get to hear everyone's side of the story, from the many and varied readers and Amiga users, the software and hardware developers, and those who sell and distribute the products, not to mention Amiga International and Amiga Inc themselves. Allow me then, to administer a few reality checks...

1. This is 1997, not 1987

- Personal computers are no longer the preserve of technically-minded enthusiasts.
- The world is now of the opinion that a personal computer is a Wintel PC, end of story.

Based on this, a mass market personal computer must be able to run Wintel applications if it is to succeed.

2. An alternative platform must target niche markets

- There are plenty of niche markets to tap into: video, audio, rendering, networking, publishing and more.
- The resurgence of network-based

"The resurgence of network-based computing makes it much more practical to integrate specialist platforms into larger systems".

computing makes it much more practical to integrate specialist platforms into larger systems, reducing the requirement for Wintel compatibility.

3. See the bigger picture

- You and your mate do not necessarily equal or mirror the global Amiga scene.
- Current Amigas are used in a wide variety of diverse applications by a similarly wide variety of users: kid with A500 playing Champ Manager, TV studio in the USA, local club secretary making newsletters, cash-strapped musician, independent graphic design company, Internet fanatic, game/application/demo programmer, all round computer enthusiast... the list goes on for ever.

The point of this is not to come across in a "we know best" kind of tone. It's to settle a few misconceptions that seem to crop up time and time again. As I think Petro once said, the biggest asset the Amiga has is its users. Such a motivated and loyal band have been and could prove to be a very powerful force in determining the Amiga's future. No two people are ever going to have exactly the same vision and ideas, but at least with some informed knowledge of the facts we can all start to make more productive moves towards getting our favourite machine back on top.

■ Tony Horgan is Editor of CU Amiga.

The importance of having Petro

I had to smile while reading Backchat in the October issue. In it, a reader wants to know exactly how to pronounce "Petro Tyschtschenko" because it's hardly right to just call him Petro". But you know what? It is OK to just call him Petro.

Just in case you've missed the last three and a half years of Amiga intrigue, Petro went from head of logistics for Commodore to President of Amiga Technologies for Escom, and is now President of Amiga International for Gateway, a firm charged with global sales and marketing of Amigas.

In that time, he's taken a lot of criticism from users and former employees alike and from others in the industry. But it's still OK to

just call him Petro.

Petro represents something Amiga users have wanted for so long and now that they finally have it, they're having a hard time appreciating it. Sure, it's important that Petro can go to India and open up new markets for the Amiga (it's apparently among his top countries in terms of sales these days).

But particularly since Gateway came on to the scene, Petro has made an appearance at shows and user events in most of the major Amiga-using countries of the world to talk up the Amiga and its future with Gateway's new Amiga Inc. development firm.

Some people don't think Petro is worthy of their respect. If you handed Petro a box containing an A1200, an accelerator card, a Hypercom,

"In many ways, Petro has been one of the only consistent things about the Amiga's recent history".

and a Net software bundle all disassembled, he might not be able to put it all together in front of you and get online. In that, people don't feel he's necessarily "one of us". But that's not the point of Petro.

He's supposed to be a man who can deliver inspiring speeches, shake hands and chat with the users, and go out for a beer afterwards. Which is exactly what he does, time and time again. In many ways, Petro has been one of the only consistent things about the Amiga's recent history.

With his lifetime of qualifications, my guess is that if he really hated what he was doing, he could go

elsewhere. Commodore and Escom make pretty good resume line items. But my guess is that he enjoys what he does – selling Amigas and coming to talk about it with users from around the world.

You don't have to love the man. It's OK if you don't even like him. But like him or not, he's the official ambassador of goodwill that Amiga users have wanted for a long time. And if he wanted to be called "Mr. Tyschtschenko", he'd go get a different job.

■ Jason Compton is US Correspondent for CU Amiga.

Who needs custom chipsets?



One of the standard lines you will hear when Amiga users discuss the future of Amiga hardware is that we have to move to PCI.

With a PCI slot, the range of hardware add-ons for the Amiga would be vastly greater. Any PC card (graphics, sound, i/O etc.) could be used on the Amiga with nothing more than a bit of driver software. The standard line you hear in response is that doing this is not what the Amiga is about.

The Amiga is all about custom chipsets, and not industry standard rubbish.

Missing the point

What is a custom chipset when it's not just a buzzword?

Simply put, it is a chipset which has been custom designed for a certain function. When you plug an Orchid Righteous 3DFX card into a PC, you are giving that PC a custom 3D graphics chipset. The advantage of giving the Amiga PCI slots is that the custom chipset is no longer part of the main motherboard and can be replaced as custom chipset technology improves.

Everyone and his donkey are making custom chipsets these days, so there's no way Gateway can do what Commodore did long ago and make a chipset that will remain state of the art for half a decade. What people really mean when they talk about the Amiga and the desire for a custom chipset is that they want the Amiga to be special and the custom chipset is what made it special.

We need to look to the future not the past. Rather than making a custom graphics chipset, leave that to the boys who can do it best and go for off the shelf cards with Cybergraphx. If we want the Amiga

"What the Amiga really needs to adopt if it wants to jump to the head of the queue and grow cutting edge credentials again is full blown DSP technology".

to have a flavour of its own, how about making sure that it does those multimedia things it is so famous for as cleverly as possible.

Make sure there is video out, as a retargettable mode. Then we get serious. Let's have built in sound and video streaming, MPEG decoding, built in high speed comms, audio processing, the lot, all integrated into the workings of the machine. Sounds good? Yep. Sounds expensive? Not any more.

What the Amiga really needs to adopt if it wants to jump to the head of the queue and grow cutting edge credentials again is full blown DSP technology. Something like the Philips Trimedia DSP/co-processor. This chip is specially designed for PCI buses.

Linking it to a PCI bridged Amiga would be simple, and give the Amiga enormous multimedia power. A chip like this is custom designed to do the jobs that your CPU doesn't

like to do.

An Amiga with this or a similar chip as a standard part (hopefully on an upgradeable daughter-board) would be able to earn the tag of the ultimate multimedia machine.

The chipset is going to be available as a PCI card for other computers, but it is the surety of having it ship in every single Amiga that would put the Amiga up there in pole position as far as the multimedia developers are concerned.

The Amiga does need some updating and it needs components bought off the shelf, but equally it should not lose out on the unique strengths that make it the Amiga.

More info on the Philips Trimedia chip can be found at <http://www.trimedia.philips.com>.

■ Andrew Korn is the Staff Writer for CU Amiga.

"Adios... CU (later) Amigos"



When a staff member of CU Amiga leaves, we get a barrage of mail demanding to know why, where that person has gone and what will happen next. This is understandable. Working on CU Amiga is the dream for many so it's difficult to understand why someone would want to leave. Is Amiga going belly up? Is the magazine going to close and so on.

My departure has been known on the Net ahead of you reading

this. Accordingly I've had all of the questions already. I even wrote a FAQ on the subject and put it on my web page at <http://www.matsnet.u-net.com>. The gist of this: the Amiga is not going belly up, its future is looking brighter than ever. Next, CU Amiga Magazine remains profitable and viable for ourselves, our advertisers and for our tens of thousands of readers worldwide.

It will be around for a long while yet. I don't know who's replacing me yet, maybe you. So why am I going? In short, to pursue my career. After two and a half years at CU Amiga, it's time to move on and do other things. My time at CU has been brilliant for me and some fantastic things have happened during this era. The 68060 came out, so did 64-bit graphics. There were blinding games like Worms and XTR, the company was bought and sold a few times and there were the fantastic World of Amiga shows.

The CD-ROM revolution took off as CD-ROMs went from a tiny minority to over 50% of active

"I'm looking forward to using an Amiga at home as my hobby once again. So you'll still see my by-lines at the articles in CU Amiga but obviously not as often".

Amiga users. Comms and the Net also changed from a tiny minority to a mainstream activity much to my delight. It's been a marvellous time indeed and while our readership has declined, those who remain are increasingly switched on. You guys are much more likely to have CD-ROMs, accelerators, big-box Amigas and Net connections than before.

You are also more likely to know the Amiga intricately. It's been highly challenging to cater for your needs and dream up new ways to inform and entertain as time moved on. Who would have foreseen CD-ROM coverdisks and even a cover-mounted PCB two years ago?

I'm looking forward to using an Amiga at home as my hobby once again. So you'll still see my by-lines on the articles in CU Amiga but obviously not as often as before. I'm

afraid I can't say where I'm going due to my contract. I can say that it's an American publisher with a UK office. My heartfelt thanks to you who made this dream job possible for me. Thank you for your E-mails and letters and I hope to see many of you around on the Net for a long time to come.

It's an exciting time for the Amiga and hopefully the beginning of the great revival. Those of us that have worked with and enjoyed the Amiga will retain the last laugh.

Hopefully the CU team will let me get on my soap box occasionally too, I wouldn't miss that for the world.

■ Mat Bettinson, Technical Editor for CU Amiga.



READER SURVEY

In order to give you the best magazine possible we'd like to find out more about you. That's what this survey is for. We've kept it just about as brief as possible so you won't spend all day filling it in. All the questions here are carefully chosen to allow us to give you the best service we can. You'll be spared the usual questions about your favourite chocolate bar and how many pets you have. As an incentive we're offering a phase 5 PowerUP card for one lucky entrant picked at random from the returns.

Buyers of floppy edition:

Do you have a CD drive?

☐ yes ☐ no

Do you intend to buy soon?

☐ yes ☐ no

How important are the cover disks?

☐ not ☐ fairly ☐ essential

How many editions of CU Amiga have you bought in 1997?

disk
CD

How interested are you in the following types of cover disk (0= not interested, 10=very interested)?

Commercial game demos
Shareware games
Commercial applications
Shareware utilities

What would persuade you to move to CD-ROM?

.....
.....

Buyers of CD edition:

Do you have a CD drive?

☒ yes ☐ no

How important are the cover CDs?

☐ not ☐ fairly ☒ essential

How many editions of CU Amiga have you bought in 1997?

disk
CD 12

How interested are you in the following types of cover disk (0= not interested, 10=very interested)?

Commercial game demos 8
Shareware games 2
Commercial applications 7
Shareware utilities 7
Utility collections 6
Demos/mods/pictures 10

Any comments to make on the cover CDs?

.....
.....

All:

In the last year have you missed issues of CU Amiga because you couldn't find it (if yes please state your location)?

☐ yes ☒ no

How much do you intend to spend on your Amiga in the next 12 months?

☐ £0-£30 ☐ £30-£100
☐ £100-£300 ☒ £300+

Which of the following do you intend to buy in the next 12 months?

☒ software applications
☐ hardware add-ons

☐ new Amiga/Amiga clone

Do you intend selling/ditching your Amiga in the next 12 months?

☐ yes ☒ no

Your Amiga:

Tell us about your Amiga.

Model

☐ A500/A500+ ☐ A600 ☐ A1000 ☒ A1200
☐ A1200T ☐ A1500 ☐ A2000
☐ A3000/3000T ☐ A4000/4000T ☐ CD32
☐ CDTV

Total RAM

☐ 1Mb ☐ 2Mb ☐ 4Mb ☐ 6Mb ☐ 8Mb
☒ 16Mb+

Operating system/Workbench

☐ 1.x ☐ 2.x ☒ 3.x

Additional peripherals

☒ CD drive ☒ hard drive ☒ printer ☒ SCSI interface
☐ modem ☒ monitor ☐ Zorro slots ☐ graphics card

Mark three of the following activities that interest you most.

☐ 2D graphics
☐ 3D graphics
☒ Games
☒ DTP/Word processing
☒ Making music
☐ Internet
☐ Programming
☐ Business
☐ Animation

☐ Presentations/video
☐ Scientific

Do you ever use your Amiga professionally?

☐ yes ☒ no

What three things would you most like to see in a new Amiga?

☐ PCI Bus ☐ AGP Bus
☒ Upgraded Workbench
☐ Multichannel 16/24-bit audio
☐ Memory protection
☒ 3D graphics as standard
☐ Networking
☐ Internet tools
☐ Fast comms port
☒ New CPU
☐ Retargetable graphics
☐ Genlocking
☐ Video output
☐ Printer/scanner support
☐ Backward compatibility
☐ Digital signal processor
☐ JAVA
Other

What were the two best two things in CU Amiga in the last year?

.....
.....

What were the two worst things in CU Amiga in the last year?

.....
.....

Win a PowerUP card

We're offering a fabulous phase 5 PowerUP accelerator as an incentive for you to get your surveys to us. The PowerUP range includes cards for the A1200, A1500/2000 and A3000/4000. Even if you've got an A500 or A600 this is a coveted prize well worth winning. The closing date for the PowerUP draw is 1st January 1998.

Send your completed survey (or a photocopy, but no multiple entries) to:

CU Amiga Survey
37-39 Millharbour, Isle of Dogs
London E14 9TZ

Alternatively fax it to: 0171 972 6755

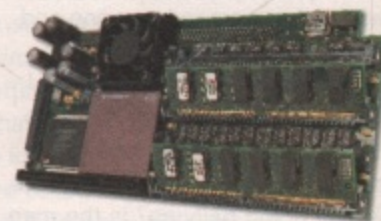
Your name:

Your address:

.....

Occasionally we would like to send you information in other related services or promotions and offers. If you do not wish to receive this information please tick the relevant boxes:

☐ From CU Amiga ☐ From third parties (other carefully screened companies)



GASTEINER

0181 345 6000

Facsimile 0181 345 6868

TRAXDATA CDR

Write your own CDs. Too expensive? Not anymore. With TraxData CDR. Super-dupa 2 x write and 6 x read CDR with a commercial 'Make CD' software included, and at a price that makes this system unbeatable.

- Write 650 Mb of data in under 40 mins.
- Write upto 100 sessions per disc.
- Master complete multimedia presentations.
- Back-up commercial CDs.
- Back-up Audio CDs.
- Archive data, permanently.
- Create Mac or PC CDs on your Amiga.
- Combine audio/data/Mac/PC & Amiga data on one CD.
- Create Bootable CD32 disks.
- Play CDs at 900kb/sec.
- Access all sessions on a PhotoCD.

Xmas Special

£379.99

MEMORY/SIMMS

Only Gasteiner offers prices like this on top quality Memory modules...

30 pin SIMMs	
1Mb	£10.00
4Mb	£25.00
72 pin SIMMs	
2Mb	£5.00
4Mb	£12.50
8Mb	£27.99
16Mb	£59.99
32Mb	£89.99

Always telephone to check stock and keenest prices

HDD/STORAGE

Only Gasteiner offers prices like this on top quality top branded hard disk drives.

2.5 inch drives...	
170 Mb	£49.00
810 Mb	£99.00
1.8 Gig	£189.00
2.5 Gig	£249.00
3.5 inch drives...	
1.2 Gig	£79.00
2.1 Gig	£99.00
3.2 Gig	£149.00
4.0 Gig	£189.00
6.4 Gig	£279.00
SCSI drives...	
1.2 Gig	£149.00
2.0 Gig	£199.00
3.2 Gig	£249.00
4.3 Gig	£299.00
6.4 Gig	£349.00

Only top quality Branded drives supplied

FAX/MODEMS

Only Gasteiner offers prices like this on top quality top branded hard disk drives.

2.5 inch drives...	
33.6 kb/sec	£69.00
56 kb/sec	£89.00

INKJET PRINTERS

Only Gasteiner offers prices like this on Canon Inkjet printers.

BJC250 colour	£149.00
BJC4200 colour	£169.00
BJC4200 colour photo suite edition	£199.00
BJC4300 colour	£199.00

Epson Inkjet printers.

Epson Stylus 600	£234.00
Epson Stylus 800	£349.00
Epson Stylus photo	£399.00
Epson Stylus 1520	£649.00
Epson Stylus 3000	£poa.

A full range of Epson Inkjet consumables available.

MOUSE

400 DPI AMIGA MOUSE
FITS ALL AMIGAS

£4.99

SCANNER

A4 FLAT BED SCANNER SCSI
AWARD WINNING ARTEC
SCANNER COMES
WITH SOFTWARE FOR AMIGA

£249

MODEM

33.6 BPS FAX VOICE MODEM
MODEM & TELEPHONE CABLES

£69.99

56.6 BPS FAX/VOICE MODEM
MODEM & TELEPHONE CABLES

£89.99

LONDON'S PREMIER AMIGA SALES & REPAIR CENTRE

CD-ROMS

Fully Featured SCSI CD-ROM Drive for use with the A1200 & A600. Cased with mains power supply.

PCMCIA FITTING

SQUIRREL INTERFACE INCLUDED

4 SPEED.....	£124
6 SPEED.....	£160
8 SPEED.....	£180

NOW IS THE TIME TO BUY!

EIDE CD-ROMS

EIDE INTERNAL CD-ROM FOR AMIGA
(NEEDS CASE & INTERFACE)

8 SPEED.....	£39
24 SPEED.....	£59

ZIP DRIVE

INCLUDES 1 CART
SCSI INTERFACE VERSION

CABLE.....	£119.99
SQUIRREL.....	£39
ZIP TOOLS.....	£20

SPEAKERS

200 WATT PMPO.....	£29
60 WATT PMPO.....	£19
10 WATT PMPO.....	£10

DELIVERY CHARGES

SMALL CONSUMABLES AND SOFTWARE ITEMS UNDER THE VALUE OF £59 PLEASE ADD £3.50 P&P. OTHER ITEMS EXCEPT LASERS, NEXT DAY COURIER SERVICE £10 PER BOX. OFFSHORE AND HIGHLANDS, PLEASE CALL FOR A QUOTATION. IN ADDITION WE OFFER THE FOLLOWING EXPRESS SERVICES: SATURDAY DELIVERY NORMAL RATE PLUS £15 PER BOX, NEXT DAY A.M. NORMAL RATE, PLUS £10 PER BOX, E&OE. PRICES ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. ALL TRADEMARKS ACKNOWLEDGED.

TRADE TERMS & CONDITIONS AVAILABLE UPON REQUEST

ISLONA!

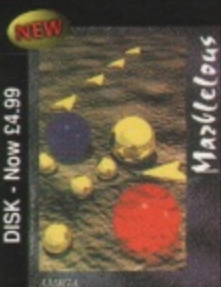
WORK, REST AND PLAY, PLAY, PLAY



DISK - £7.99

Block Head

Fast thinking puzzle game comprising: Intuitive Controls, Challenging difficulty curve, Random Level mode, dozens of power-ups, Great music.



DISK - Now £4.99

Marblelous

100 brain teasing levels each more difficult - you control a metallic ball using your mouse and have to find your way to the exit.



DISK - £9.99

XP-8

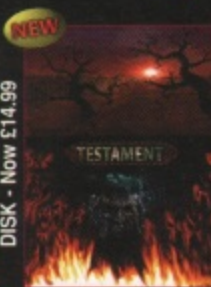
XP-8 is a vertical scrolling shoot'em up, featuring 4 way - 50fps scrolling, wicked music, sound effects and amazing animated alien space-craft.



DISK - Now £9.99

Kargon

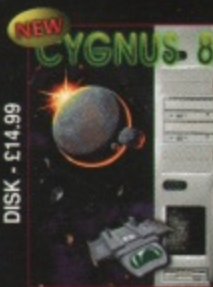
Kargon is a completely new challenge! Up to 4 players can compete in order to find one thing out: Who the greatest magician among them is.



DISK - Now £14.99

Testament

When it gets dark, the living dead begin their celebration on the graveyard. Make your way through swampy tracks and dark tomb monuments.



DISK - £14.99

Cygnus-8

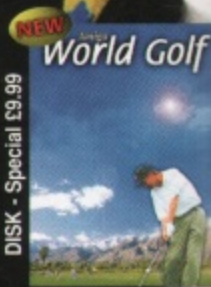
Construct a large scale trading empire in a rich galaxy of planets, or turn criminal and raid space pirate fleets? It's your choice in this sci-fi simulation.



DISK - £14.99

Master AXE

From living legend Master Neil Axe, 3rd Degree Freestyle Kung Fu Black Sash, comes one of the most innovative martial arts simulations ever.



DISK - Special £9.99

World Golf

1-4 players in practice and tournament modes. Five authentic courses from around the World. Five skill levels. Select 1, 2 or 4 full 18 hole rounds.



"Sixth sense investigations" is a new graphics adventure for the Amiga, based on the classic LucasArts style games. The base storyboard tells of a crazy young guy who has the ability to communicate with the spirit of a sarcastic man. A friend, who thinks of himself as a detective, profits from the psychic abilities of his friend (the crazy psychic guy), by using his skills to solve the most bizarre problems of the rich.

Req: AGA 2MB ram. Available on Amiga CD and Disk. £29.99

Fasten your seat belts and be prepared for an experience like you've never seen before on your Amiga. Flyin' High is here and it takes you to a new dimension of 3D-Racing Games. Step on the gas and race over fully textured and absolutely crazy tracks, on asphalt, mud, field paths and slippery ice. On a 68030 Amiga the game is great fun. Playing with 4 players on a 68060 is really impressive.

Req: AGA 6MB ram, Harddisk.

Available on Amiga CD and Disk. Only £19.99

If you see it cheaper, and they have it in stock, we'll match the price!



DISK - £6.99



DISK - £17.99



CD or DISK - £6.99



DISK - £6.99



CD - £2.99 : DISK - £15



CD-ROM - £19.99



DISK - £9.99



DISK - £24.99



CD or DISK - £9.99



DISK - £9.99



DISK - £14.99



Kid's Games!

Super SKIDMARKS+ CD

Super Skidmarks was possibly the most addictive and fun game ever. WAS, because now there's Super Skidmarks Plus, featuring around 50 vehicles, dozens of tracks, new music and sound effects. The fastest most playable 4 player racer ever! £14.99. (Amiga CD)



CD or DISK - £14.99

CIVILIZATION

Available on CD-ROM or Floppy



Build An Empire To Stand The Test Of Time.

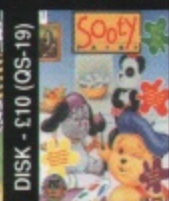
You could be the one person in history that builds an empire that never falls.

- Discover New Technologies -
- Build Wonders Of The World -

CD Version includes AGA & ECS



DISK - £3.75 (OS-12)



DISK - £10 (OS-19)



DISK - £3.75 (OS-18)



DISK - £10 (OS-20)



DISK - £3.75 (OS-05)



DISK - £4.50 (OS-13)



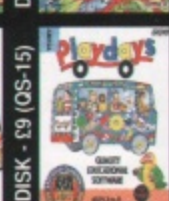
DISK - £3.75 (OS-06)



DISK - £3.75 (OS-02)



DISK - £3.75 (OS-17)



DISK - £9 (OS-15)



DISK - £10 (OS-10)



DISK - £10 (OS-01)

Gloom3 Ultimate Gloom

Gloom3 "Ultimate Gloom" is the latest in the Gloom series. Featuring even faster 3D graphics, 50 Huge new levels new sound effects, 21 new combat levels, 10 new Zombie levels, Double the amount of colours that previous Gloom games. More blood than ever before! £14.99. (Amiga CD)



STREET RACER

An unrivalled racing and fighting experience! (Its time to make some more friends). Street racer is now available on the Amiga. The CD version includes enhanced music and the "original" PSX intro!. £14.99. (Amiga CD & Disk)



CALL: 01793 432176 TO ORDER



Islona Entertainment (Epic) - BSS House, Area50, Cheney Manor, Swindon, UK

Most items are held in-stock ensuring fast delivery. Please add a total of £1 per title for P&P within the UK and Overseas. Trade enquiries welcome, All prices listed include VAT. E&OE Free Games Catalogue Available, Send SAE. Please make cheques payable to ISLONA - Islona is a part of the Epic Marketing Group of Companies. We will beat or match any price for any Amiga game, so long as our competitor has stock of that title.