

CU

AMIGA

M A G A Z I N E

January 1997 £5.99 US\$13.50 • L22,500 • ASCH235 • BFR 520 • DM 25.00

NEW 'AMIGA' REVEALED!
Full details inside ...

Monster 3D

Issue!

Render your way to 3D heaven with Imagine 4.0 and our brilliant tutorials!

WORTH Imagine 4.0
£400! COMPLETE PACKAGE!!!
Accept NO substitutes!

*Source: Impulse Inc.

On your CD-ROM:

- Imagine 4.0 including FPU version
- The Amiga's favourite 3D system
- 100Mb of Imagine objects & extras!
- The best of the latest shareware

Plus!

Games, demos, WWW and more ...

No CD-ROM? Ask your Newsagent!

Graphics Work

Get a job in computer graphics

Personal Paint 7

The ultimate paint package?

PLUS

Sensi 96-97

Will it pass the fitness test?



CD-ROM edition
(3.5 DD disk edition also available)



Late Night Opening
Wednesday & Thursday
till 7.30pm

Open Sunday
11am to 4pm

**FIRST
COMPUTER CENTRE**

LOW COST DELIVERY Tel: 0113 231-9444

- 2-4 Week Days £3.99
- Next Week Day £5.99
- Saturday Delivery £15.00

Delivery subject to stock availability

SHOWROOM ADDRESS:
FIRST COMPUTER CENTRE,
DEPT. CU, UNIT 3, ARMLEY PARK CT,
STANNINGLEY RD, LEEDS, LS12 2AE.

Lombard Finance

Please allow 5 working days for cheque clearance. Prices are correct at the time of going to press. Please check our latest prices before ordering. All sales are subject to our standard terms & conditions (copy available upon request). ESOE.

EASY ACCESS FROM M62, M1 and A1

From M62: Join M1 from the M1 follow signs onto M62. Take A64 (Elvedon Rd) turnoff from M62. Follow signs for A64. This merges with the Armley gyratory from M62 at Junction 17, A64 to Armley gyratory. From the A1 take the turnoff for A64. This merges with the A64 (by-passing town centre) which meets Armley gyratory.

From M1: Join M62 from the M1 follow signs onto M62. Take A64 (Elvedon Rd) turnoff from M62. Follow signs for A64. This merges with the Armley gyratory from M62 at Junction 17, A64 to Armley gyratory. From the A1 take the turnoff for A64. This merges with the A64 (by-passing town centre) which meets Armley gyratory.

LARGE SHOWROOM WITH FREE PARKING

OPEN 7 DAYS A WEEK

E-Mail: sales@firstcom.demon.co.uk WEB: www.firstcom.demon.co.uk FAX: 0113 231-9191 BBS: 0113 231-1422

Hardware

Amiga A1200 MagicPack

Includes, Wordworth V4SE, Datastore, Organiser, TurboCalc 3.5, Personal Paint V6.4, Photogenics 1.2SE, Finball Mania & Whizz.

Very Limited Stocks Available, Early Purchase Recommended

£369.99

Amiga A1200 Magic Pack Inc. 170Mb HD & Scala MM300

Includes same software pack as Magic Pack, but also includes Scala MM300 (Req. 4Mb).

£469.99

AMIGA M1438S Monitor Only!! *£259.99 When bought with a computer

First Starter Pack

- A1200 dust cover
- 10 x DSDD disks + labels
- Top quality joystick
- Deluxe mouse mat
- 3 x A1200 games

£19.99

PRIMA The Prima ATOM PSU Heavy Duty PSU £69.99

- High Quality 200 Watt PSU.
- Colour Co-Ordinated Casing.
- 4 x The Power of Std. Amiga PSU
- 12 Month Warranty.

The Amiga's Standard PSU cannot support extra heavy power consuming peripherals eg. AHD Accelerator boards & Disk Drives. Over loading the PSU often leads to the Amiga crashing.

CD ROM Drives/Video CD

Ultra CD ROM Drives

- 4 X £169.99
- 8 X £199.99
- 10 X £219.99

Kit No Drive £119.99

Quick & Easy to install, fits via the Internal IDE Connector, does not interfere with existing H.D.

Hi-Soft SMD-100 VideoCD MPEG Decoder Only!! £195.99

Req. VideoCD compatible SCSI CD Rom. Video CD's all £1.49

Fish called Wanda Account Adams Family Airplane An Officer & Gent. Avion Hall Apocalypse Now Beverly Hills Cop Black Rain Chilly Chilly Burg. Carrie Clear/Present Dang. Crocodile Dundee 2 Crying Game Fatal Attraction Ferris Bueller's Four Weddings/Hunst/Red October Indecent Proposal The Krays Naked Gun 1,2,3 103 Patriot Games Rain Man Rocky Scrooged Shadow Grass Star Trek 1,2,3,4,5,6,7 Top Gun Wayne's World 1,2 When Harry Met Sa...

Lots More Available

PRIMA External SCSI CD ROM Drives

Dual/Quad SCSI CD ROM

- Quality Toshiba Drive
- Own Internal PSU 17W
- Fast SCSI Transfer Rates
- 12 Month Warranty

£99.99 2 X Speed

£159.99 4 X Speed

A SCSI Controller is Required to connect Drive

Internal SCSI CD ROM Drives

- Toshiba 5301B x4 Speed £90.99
- Toshiba 3701B x6.7 Speed £182.99
- NEC CDR-1410 x8 Speed £197.99

SCSI Controllers

GVP 4008+ / Oktagon SCSI £99.99

BigBox Amiga eg. A2000/A4000 SCSI Controllers
Squirrel/Surf Squirrel £45.00/£75.00

When purchased with a CD ROM Drive or Modem.

Hard Drives

3.5" Hard Disk Drives IDE SCSI

- 540Mb...£117.99 270Mb...£99.99
- 850Mb...£120.99 540Mb...£149.99
- 1.08Gig...£152.99 1.08Gig...£249.99
- 2.1 Gig...£249.99 2.1 Gig...£319.99

2.5" Hard Drives for A600/A1200 with installation kit inc. software, screws, cables and instructions

Seagate FUJITSU CONNER

- 80Mb...£79.99 130Mb...£99.99
- 250Mb...£119.99 340Mb...£119.99
- 420Mb...£129.99 540Mb...£149.99
- 810Mb...£189.99 1.0Gig...£229.99

Build Your Own SCSI Hard Drive

- SCSI case with built in PSU £69.99
- SCSI Hard Drive, Select from above
- SCSI Squirrel Interface £45.00
- 12 Month Warranty.

Monitors

AMIGA New Amiga Monitors

Multi-Sync Monitors

- 14" 1438s...£269.99
- 15" 1540s...£299.99
- 14/15" Monitors Inc. Built In Speakers
- 17" 1764...£542.99

Disk Drives

Zip

- Includes: 1 X 100Mb cartridge
- SCSI II case & adaptor may be req. at an extra cost.

Omega Jazz drive £440.99

Zip Tools Driver Software Suits Zip & Jazz Drives...£16.99

Amiga External drive £44.99
A1200/600 internal drive £39.99
A500/500+ internal drive £39.99

Squirrel I/face

SCSI Surf Squirrel

- Hi speed serial port
- SCSI-II interface
- Autobooting HD

from *£79.99 if purchased with any modem if purchased separately £99.99

Squirrel

- SCSI-II interface

From only *£45.00 if purchased with SCSI device £54.99 if purchased separately

SupraFAXmodem Modems

Sportster Voice

- 14,400 Data/14,400 Fax £98.99
- 33,600 Data/14,400 Fax £161.99

● Class 1 Fax ● Personal Voice Mail ● Fax on Demand ● Call Discrimination

PRIMA V34+ Fax Modem

Amazing Price/Performance

- 33.6 Baud Rate ● Class 1 Fax
- BAPT & CE approved.

Only...£119.99

Complete with cables & Amiga N-comm Software

Amiga SurfWare bundle when purchased with any Modem only...£19.99

Modem Accessories

Phone Line Extension Cables...
5M. £6.99 10M. £8.99 15M. £10.99
Dual Socket Adaptor...£6.99

RAM Expansion/Accelerators

PRIMA A1200 RAM Expansion

- A1200 1 MB RAM Special price!! £69.99
- A1200 2 MB RAM £74.99
- A1200 4 MB RAM £76.99
- A1200 8 MB RAM £93.99
- A1200 1MB/33Mhz Co Pro £95.99
- A1200 2 MB/33Mhz Co Pro £100.99
- A1200 4 MB/33Mhz Co Pro £102.99
- A1200 8 MB/33Mhz Co Pro £120.99

Accelerator Cards

- Viper II-33 £129.99
Up to 128Mb RAM, FPU socket & RT Clock
- Blizzard 1230-50Mhz £169.99
Up to 128Mb RAM, FPU Socket & RT clock
- Blizzard 1260-50 £579.99
Up to 64Mb RAM, MMU & FPU & RT Clock
- Blizzard SCSI Module £89.99
- 68882-33Mhz PLCC £34.99
- 68882-50Mhz PGA £99.99

MASSIVE PRICE REDUCTIONS

- 2 Mb 72 Pin SIMM £14.99
- 4 Mb 72 Pin SIMM £19.99
- 8 Mb 72 Pin SIMM £35.99
- 16 Mb 72 pin SIMM £89.99
- 1Mb 30 pin SIMM £13.99
- 256x4 DRAM (each) £4.99

A500/600 RAM Expansion

- A500 512k RAM no clock £19.99
- A500+ 1 Mb RAM £29.99
- A600 1 Mb RAM no clock £29.99

Part exchange available on your old memory.

Printers

Canon

- Canon BJ30 £138.99
Portable mono printer, 30 page ASF built in.
- Canon BJ70 Colour £185.99
Portable colour printer, 30 page ASF.
- Canon BJ240 Colour £191.99
Colour Printer, 720 dpi.
- Canon BJC4100 Colour £222.99
Quality colour fast mono printing 720x360 dpi.
- Canon BJC620 Colour £348.99
720 x 720 dpi, near photographic quality.
- Canon LPB 460 £279.99
Windows 95 only, GDI Laser printer.

EPSON

- Stylus 500 Colour £282.99
720 dpi, 4ppm Black, 2ppm Colour.
- Stylus 200 Colour £179.99
720dpi, 2.5ppm Black, 1ppm Colour.
- Stylus 200 £133.99
720 dpi, 2.5ppm Black, Colour Upgradeable.
- Stylus Pro £386.99
720x720 dpi, Photo-Real quality output.
- Epson GT-5000 Scanner £399.99
Entry level A4 Colour Flatbed Scanner.
- Epson GT-8500 Scanner £479.99
400 dpi Fully featured A4 Flatbed Scanner.

Miscellaneous

- Printer Switch Box 2 way £12.99
- Printer Switch Box 3 way £17.99
- Printer Stands (Universal) £4.99
- 1.8 Metre printer cable £4.99
- 3 Metre printer cable £6.99
- 5 Metre printer cable £8.99
- 10 Metre printer cable £12.99
- Parallel port ext. cable £9.99

Studio 2 New version 2.1

"If you want to get the best possible results from your printer, get a copy of Studio".
£49.95 or £44.95 when purchased with a Printer.

HEWLETT PACKARD

- HP400 Colour £154.99
300x300 dpi mono, 300x300 dpi Col.
- HP660 Colour £229.99
300x300 dpi Colour printer, now even faster.
- HP870 Colour £395.99
600x600 dpi up to 6 p.p.m colour, 3 p.p.m black.
- HP 5L Laser printer £369.99
4 p.p.m 600 dpi
- HP 5P Laser printer £529.99
6 p.p.m 600 dpi

Consumables

Ribbons

- Citizen Swift/ABC mono £3.99
- Citizen Swift/ABC colour £12.99
- Star LC90 mono ribbon £4.99
- Star LC101/100 mono £3.69
- Star LC101/100 colour £7.99
- Star LC240c colour £13.99
- Star LC240c mono £8.99
- Star LC240 mono £5.99
- Star LC24-10/200/300 Colour £13.99
- Re-Ink Spray for mono ribbons £11.99

PREMIER-INK Cartridge Refills

Save a fortune in running costs with your ink! bubble jet. Compatible with the HP Deskjet series, Canon BJ10/20/30/130/200/300/330, Star S148, Citizen Project and many others.

Full range of colours available.

- Single refills (22ml) £6.99
- Twin refills (44ml) £12.99
- Three colour kit (66ml) £19.99
- Full colour kit (88ml) £27.99
- Bulk refills (125ml) £24.99

Laser Printer Supplies

- Hewlett Packard Laserjet 5L £65.99
- Hewlett Packard Laserjet 5P £75.99
- Hewlett Packard Laserjet 4L £68.99
- H. Packard Ljet 4/M/5/M/N £99.99
- Canon LPB-460 Toner £79.99

Laser printer supplies for all major manufacturers available... Call.

Ink Cartridges

- Canon BJ10/Star S148 £17.99
- Star LC200/230 £18.99
- Canon BJ30 (3 pack) £12.99
- Canon BJC 70 mono (3 pack) £10.99
- Canon BJC 70 colour (3 pack) £17.99
- Canon BJC 4000 colour (single) £16.99
- Canon BJC 4000 mono (single) £6.99
- Canon BJC 4000 mono high cap. £8.99
- Canon BJC 600e mono/col. £5.99
- Citizen Printiva mono/col. £21.99
- HP Deskjet 340 mono £22.99
- HP Deskjet 500 mono/col. £23.99
- HP Deskjet 660 mono/col. £27.99
- HP Deskjet 850C mono/col. £13.99
- Epson Stylus mono/col. £17.99
- Epson Stylus Col. IIS mono/col. £16.99
- Epson Stylus 500 mono/col. £16.99
- Star S144 mono/colour (single) £7.99
- Printer Dust Covers £5.99

Paper

- Fanfold (tractor feed) 500 sheets £6.99
- Fanfold (tractor feed) 1000 sheets £12.49
- Fanfold (tractor feed) 2000 sheets £21.49
- Single sheet 500 sheets £6.99
- Single sheet 1000 sheets £12.49
- Single sheet 2000 sheets £21.49
- Epson Stylus 720 dpi paper pack £13.99
- H. Packard Glossy paper pack (10) £9.99
- High quality Inkjet Paper (500) £10.99

Disks

Bulk DSDD

- 10 x £3.49 100 x £26.99
- 30 x £9.99 200 x £49.99
- 50 x £14.99 500 x £114.99

Branded DSDD

- 10 x £4.99 100 x £41.99
- 30 x £13.99 200 x £76.99
- 50 x £21.99 500 x £175.99

Bulk DSHD

- 10 x £3.99 100 x £29.99
- 30 x £10.99 200 x £55.99
- 50 x £16.99 500 x £129.99

Branded DSHD

- 10 x £5.99 100 x £44.99
- 30 x £15.99 200 x £82.99
- 50 x £23.99 500 x £189.99

Disk labels x500 £6.99
Disk labels x1000 £9.99



Editorial

- EDITOR Tony Horgan
- DEPUTY EDITOR Lisa Collins
- TECHNICAL EDITOR Mat Bettinson
- STAFF WRITER Andrew Korn
- COMPANY ART EDITOR Helen Danby
- DEPUTY ART EDITOR Anthony Collins
- CD-ROM EDITOR Mat Bettinson
- TECHNICAL CONSULTANT John Kennedy
- GAMES CONSULTANT Matt Broughton
- CONTRIBUTORS Vampyra, Andy Mitchell, Neil Bothwick, Anthony Brice, Mark Forbes, Paul Nolan
- PHOTOGRAPHY Ben Jennings
- COVER ILLUSTRATION Mark Alleyne
- SYSTEMS AND REPRO Sarah-Jane Leavey, Sarah Best

Advertising, Marketing & Management

- ADVERTISING MANAGER Chris Perera
- SENIOR SALES EXECUTIVE Marianna Masters
- SALES EXECUTIVE Genene Dick
- AD PRODUCTION Tina Gynn, Ryan Boundy
- PRODUCT MANAGER Kirstin Ritchens
- MARKETING EXECUTIVE Claire Matthews
- MARKETING MANAGER Alex Gorman
- FACILITIES MANAGER Rob McBride
- PUBLISHING DIRECTOR Sandra McClean
- EXECUTIVE PUBLISHING DIRECTOR Sarah Janes

CU Amiga Magazine

PRIORY COURT
30-32 FARRINGDON LANE
LONDON EC1R 3AU
UNITED KINGDOM
0171 972 6700
GENERAL@CU-AMIGA.CO.UK
SUBS ENQUIRIES: 01858 435350
ADVERTISING PRODUCTION FAX: 0171 216 6219

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 Email us at backchat@cu-amiga.co.uk or Q+A@cu-amiga.co.uk.

PD SUBMISSIONS: 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, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.**

ADVERTISING OR ADVERTISING PROBLEMS: If you wish to advertise, or have a problem with a company advertising in CU AMIGA MAGAZINE our advertising team will be glad to help. Contact Marianna Masters on the above telephone number and address.

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 £8.99, Europe and Rest of world £7.50.

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 £78.00. ROW AIRMAIL £90. See subs page for special offers.

© EMAP Images 1996. 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 the 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 encumbrance.

PRINTED IN THE UNITED KINGDOM BY ST IVES PETERBOROUGH/ROCHE
COVER DISK AND CD-ROM DUPLICATION BY DISKXPRESS



Editorial



Moo! Well I don't know what noise a reindeer makes ... Are you excited? I am! Imagine 4.0 headlines this month's cover disks and if you've got the CD edition you'll find over 100Mb of objects and other Imagine data on there too This issue also sees part one of a guide to getting a job in computer graphics! Ask yourself, who else would do all that for you?

Other notable festivities in this issue include our special Ultimate Amiga Trainspotter Quiz, in which you can win a whole sack load of unique and obscure

Amiga rarities. Check it out on page 87. On the games side, The Chaos Engine 2 finally arrived in for review this month, along with the new 96-97 update of SWOS.

Before I go I'd like to introduce you to Andrew Korn (no verruca jokes please) who joins us this month as our new Staff Writer. Andrew is a bit of an all-rounder and a dedicated Amiga fan of many years standing. Well I'll be off now. Time to make a start on that box of dates.

Tony

Features

18 Imagine 4.0

To complement our superb Imagine 4.0 cover disks and CD we've got a unique tutorial to get you started and point out some of the key features of this stunning 3D ray tracer. If you've



got the CD edition you'll find all the examples on the CD in the form of Stage files, all ready to be loaded, examined and rendered with a minimum of fuss.

27 Design for a Living

Backing up Imagine we've got the first part of a guide to getting a job in computer graphics. This month we deal with the world of computer and console game graphic design. What's hot? What skills are required? Do you need a degree in art and how should you be presenting yourself? Find out on page 27.



Cover Disks



9 Imagine 4.0

Oh yes, it's true! Imagine 4.0 is here, fully fledged and ready to go. We've even got both the FPU and Integer versions of the program on the cover disks to give the best performance whatever Amiga you have. Just look at those features: procedural textures, advanced animation, inverse kinematics, blobs, complex lighting effects ... this kind of rendering power is unmatched by anything with a price tag under £999, but we give it to you this month for the price of a magazine!

9 Underwater Capers

Sub-aquatic silliness ahoy! Blast your way through a relentless onslaught of fishy foes in this salty sea dog interpretation of the classic scrolling shoot 'em up theme.

News

12 Hot new 'Amiga' announced by Phase 5 plus all the rest.

Games

- 32** Minskies Furballs
- 32** Gun Fury
- 33** Euro League Manager
- 36** Chaos Engine 2
- 38** Sensi World of Soccer 96-97
- 41** Fighting Spirit
- 42** Andy Braybrook Interview
- 44** Snip Tips
- 45** Vampyra

Get Serious – utilities and hardware

- 50** Art Effect
- 53** Personal Paint 7
- 58** Executive
- 61** 1240 T/ERC
- 61** PC Keyboard Interface

Public Domain

- 62** PD Scene
- 66** PD Utilities
- 68** Cover CD Instructions
- 72** CD-ROM Scene

Workshop

- 76** Art Gallery
- 78** 3D Rendering: Imagine 4.0
- 84** Wired World
- 86** Net God
- 87** Trainspotter Quiz
- 88** Sound Lab Special
- 96** Q&A Masterclass
- 98** Q&A
- 100** Points Of View
- 101** Frequently Asked Questions
- 102** Backchat
- 104** Subscriptions
- 105** Next Month
- 106** Back Issues



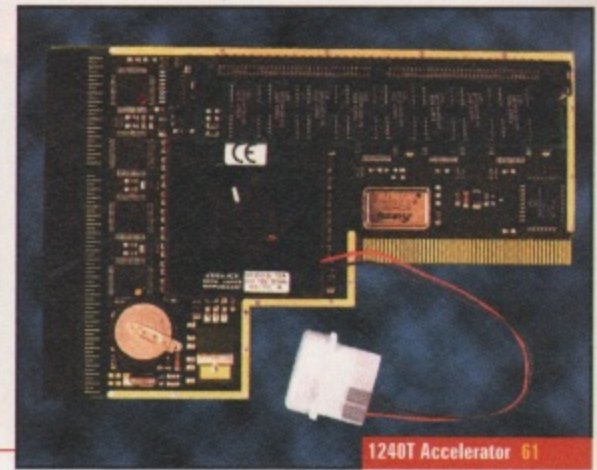
Euro League Manager 33



Fighting Spirit 41



Art Effect 41



1240T Accelerator 61



CD-ROM Scene 72



Imagine Tutorial 78



Get your work published!



Do you have software, artwork, utilities, mods, games or any other Amiga creations that you think are worthy of inclusion on a Super CD? If so, get them to us now and give your work a worldwide audience. The best music module each month even gets recorded onto the CD as an audio track!

How to send your work in

All entries, including artwork must come to us on one or more disks. Otherwise they can be uploaded to our FTP site as detailed here.

Make sure you label your disks clearly with your name and address, the name of what you are sending in and the category it is being sent into (like the one opposite).

Important: we cannot accept autobooting disk-based software for use on the CD. We require files which can be used or run from the CD-ROM. Please include all the relevant details regarding system requirements and usage instructions within an ascii text document with your submissions.

Please complete the following form and enclose it with your disks:

System requirements for the enclosed files:

My name:

My address and postcode:

My phone number:

I hereby acknowledge that the material enclosed is of my own creation and/or I own the copyright to the material and grant CU Amiga Magazine the rights to publish this material on a forthcoming cover CD-ROM.

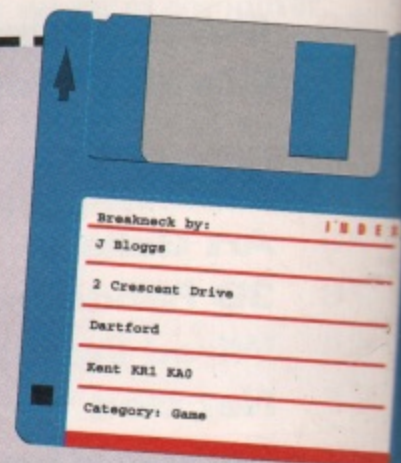
Send your contributions including the form (left) to: CD Contributions, CU Amiga Magazine, 30-32 Farringdon Lane, London EC1R 3AU.

If you want to send it to us via our FTP site or Email then this is also welcome. We would suggest that you include all of the information on the postal form left in an accompanying doc to make sure your entry is processed properly. Our email and FTP addresses are:

Internet FTP: [ftp.cu-amiga.co.uk/users/cu-amiga/incoming](ftp://ftp.cu-amiga.co.uk/users/cu-amiga/incoming)
OR EMail (MIME only): cd-contrib@cu-amiga.co.uk

Conditions

1. What you send to us must be your own creation or you must own the copyright for it. Please indicate this in the relevant space on the form.
2. It will be assumed that any entry we receive, in the form we receive it, will be freely redistributable unless otherwise stated.
3. The publishing rights for all items sent to us marked for inclusion, whether public domain, shareware or commercially copyrighted will be assumed assigned to us for the purposes of placement on a CU Amiga Magazine CD-ROM. Full title and original copyright for all items remains with the creator.
4. CU Amiga Magazine makes no offer of payment whatsoever for material marked for inclusion which is published on a CU Amiga Magazine CD-ROM.
5. Because of the anticipated volume of entries we will not be able to return your work.



WORMS



GOING CHEAP

£12.99



CHEEP!*?

CHEEP!*?

"It's wonderful to take part in and even better to win - buy it today - you certainly won't regret it."

CU AMIGA 94%

"If I was to make a must-have recommendation for Christmas, WORMS is it!"



1996
**EMAP IMAGES
GOLDEN JOYSTICKS**

**BEST ORIGINAL
COMPUTER GAME**



**MOST ORIGINAL
GAME of the YEAR**

**VOTED BEST GAME
TV VIEWERS AWARD**

**GAME of the YEAR
in SPAIN**



©1996 Team 17 Software Ltd.



Marketing & Distribution



AMIGA

ANY 1MEG AMIGA.
AGA CHIPSET ENHANCED

PLEASE NOTE: Screenshots shown are from various formats

Pro-GRAB... Freezes Frames *and Much More!*

The Cool way to Grab Images on your Amiga

CHECK OUT OUR NEW... ProTel™, Sound Samplers and PCMCIA Interface



Compatible with both VHS and S-VHS!



Grab images with your camcorder including S-VHS...

or, Take a signal from a TV with SCART output...

or, Use the signal from your satellite receiver...

or, Grab TV or video pictures from your VCR's video output including S-VHS.



Compatible with both VHS and S-VHS!



ProGrab 24RT Plus

ProGrab is just £129.95...

- Supports all recent Amigas and is also fully AGA Chipset compatible. You can render images in any Workbench screen mode resolution including HAM8 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 - saving YOU time!
 - Software has built in mono and colour animation facilities. Number of frames dependant upon Amiga's RAM.
 - Release 2.6.x software now includes...
 - ADDITIONAL TELETEXT FACILITIES - With either Terrestrial or Satellite TV signals.
 - LARGER PREVIEW WINDOW - Double Resolution and 4 times area of previous ProGrab software.
 - INTERNATIONAL SUPPORT - Now compatible with composite PAL, SECAM and NTSC Straight from the box!
- ProGrab is supplied with just about everything you'll need +...
- ProGrab™ 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 SVHS.
- + A video source cable will be required to match your own equipment - Ask for details.
- * Standard ProGrab hardware is PAL/SECAM/NTSC compatible. Interface mode options are available with PAL and SECAM only. ProGrab™ supports any Amiga with Kickstart 2.04 or later and a minimum of 1.5Mb free RAM.

The revolutionary S-VHS ProGrab™ 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, 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. ProGrab™ has earned honours from just about every Amiga magazine and Video magazines too. And... with ProGrab™ 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™ includes a Teletext viewer and capturing facility from 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!

Pro-GRAB™ S-VHS 24RT Plus

PCMCIA INTERFACE for A1200 and A600 **Only £39.95**

ProGrab's optional PCMCIA Interface includes the latest version software and performance for serious/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 Parallel Port for use by a printer or other parallel peripheral
- Sound sampling and animation capabilities (separate sound sampler needed)

STEREO SOUND SAMPLERS

Two high quality 8-Bit sound samplers, specifically designed for use with our ProGrab 24RT™ digitisers, are now available (PCMCIA interface required). The Hi-Fi version features the same 30MHz A/D converter used in the ProGrab™, meaning the maximum frequency is only limited by the Amiga's hardware. It also has a higher bandwidth (40KHz to 20KHz) than the standard version.

Standard Stereo Sampler £19.95
Hi-Fi Stereo Sampler £24.95

WHAT THE MAGAZINES SAY...

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."

camcorder USER

ProGrab™ - Voted as **The Best Video Hardware** product for the Amiga. This is especially pleasing because the award comes from the Amiga Shopper magazine's readers... Our **Satisfied Customers!**

ProGrab™ - 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!"

AMIGA SHOPPER **STAR BUY**

ProGrab™ - 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". When reviewing Vidi Amiga 24RT PRO, Amiga Format said "Save yourself £100 and buy the much superior Pro Grab"

AMIGA **GOLD**

CU Amiga said ProGrab™ 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

ProTel™ Terrestrial/Satellite Teletext Decoder

Stand alone unit for grabbing Teletext to work independently of ProGrab™ and has a much faster download rate. Once the information has been downloaded, ProTel™ allows you to view pages instantly - no more waiting whilst your TV finds the correct page! Files can be exported as ASCII text for use in a WP or saved as IFF Graphics for use in your DTP presentations. You don't need a Teletext TV/Video for ProTel™ - the signal can be received through a standard VCR.

£44.95



Post or FAX your requirements (quantity trade prices available) on the order form provided OR, if you'd simply like further information please contact...

GH

GORDON HARWOOD COMPUTERS

Department CUA
 Gordon Harwood Computers Limited,
 New Street, Alfreton, Derbyshire DE55 7BP
 FAX: 01773 831040
 email: 100271.3557@compuserve.com

01773 836781

Mr/Mrs/Miss/Ms: Initial(s): Surname:

Address:

County (Country): Postcode:

Daytime Phone: Evening Phone:

ProGrab Plus™ @ £129.95	£	:	
PCMCIA Interface @ £39.95	£	:	
ProTel™ Teletext Decoder @ £44.95	£	:	
Standard Stereo Sampler @ £19.95	£	:	
Hi-Fi Stereo Sampler @ £24.95	£	:	
Standard Delivery £7 (2/3 Working Days)	£	:	7:00
or an additional £3 for Next Working Day Delivery	£	:	
TOTAL	£	:	

Overseas Customers... Please call for prices, shipping etc.

Card holder's signature:

Card No

Expiry Date

Valid From: (Switch/AMEX Only)

Issue Number: (Switch Only)

I enclose a Cheque/Bank Draft/Postal Order for £ : made payable to GORDON HARWOOD COMPUTERS LIMITED

Please write your name and address on the reverse of any cheques or drafts.



cover disks

Loading instructions



Disks 148 & 149 Imagine 4.0

Write protect your Imagine 4.0 cover disks before you do anything else. You can now set about installing Imagine onto your hard drive. A simple installer has been included which requires little more than a few mouse clicks. When you open the disk on your Workbench you'll see two icons, one marked Extract-

Imagine_FPU and another marked Extract-Imagine_INT. If you have an FPU on your Amiga then double click the FPU icon. If not click the INT icon (INT is short for 'integer'). Next you'll be asked where you want to install Imagine. Use the standard file requester to select your destination. There's no need to create an Imagine drawer yourself as that will be done for you. For example, if you wanted Imagine installed in your main 'Work' partition then simply select the Work drive from the requester. Alternatively select further directories to install it deeper.

This month there are no less than eight pages devoted to Imagine 4.0. The first of the two tutorials can be found on page 18. For a more in depth guide, see the second tutorial on page 78. If you have the CD edition you'll find a treasure trove of Imagine goodies on the CD too.

IF YOUR DISK/CD WON'T LOAD

We go to great trouble to ensure that the CU Amiga Magazine cover disks will work on common Amiga models. However, if you do experience problems follow this simple guide.

1: Remove all unnecessary upgrades and peripherals, such as printers and modems. Some trapdoor expansions can also cause problems.

2: Follow the instructions on this and previous pages exactly.

3: Contact our 3.5 inch disk people: DISKXPRESS, 7 WILLOW COURT, BOURTON INDUSTRIAL PARK, BOURTON-ON-THE-WATER, GLOUCESTERSHIRE GL54 2HQ. TEL: 01451 810788.

SEA. Tel: 01451 810788. Email:100714.334@compuserve.com

If they advise that the disk is faulty, fill in your details in the form below, and send this form, along with the faulty cover disk and a 25p stamped self addressed envelope to:

CU Amiga Magazine Disk Returns, DISKXPRESS, 7 WILLOW COURT, BOURTON INDUSTRIAL PARK, BOURTON-ON-THE-WATER, GLOUCESTERSHIRE GL54 2HQ. TEL: 01451 810788.

We also vigorously virus check our cover disks on a branded virus checker. If some escape our attention we cannot assume responsibility for it.

NAME:

ADDRESS:

TYPE OF AMIGA OWNED: DISK NUMBER:

DESCRIBE EXACTLY WHAT HAPPENS WHEN YOU TRY TO LOAD THE DISK:

.....

Cover disk 149 Underwater Capers



The official title of this game is actually SeeMore Doolittle's Underwater Capers. It's a watery shoot 'em up in which you must battle against the elements to rescue your friend Marian the Mermaid. As you gun down the crustaceans that try to kill you you'll pick up extra points and treasure that you can use to buy bigger and better weapons in the shop. To access the shop at any time in the game, press the spacebar.

Underwater Capers is a full game which has been written with the Reality Game Engine (press F2 during the game and you'll find out all about this) and should run on all Amigas with 1Mb. Getting the game up and running couldn't be easier. You may notice that because we wanted to give you the complete package of Imagine 4, there are some Imagine 4 files on the game disk. Don't worry they will not affect starting the game up in any way. It's self booting so just put the disk in your Amiga and turn it on. You can also run the game from the Underwater Capers icon on the disk. Just double click on this icon from Workbench and you're off. When loaded, press F1 for the game instructions or follow the on screen instructions to get started. Good luck.



**"World of A1200" & "Top 100 Games"
CDs FREE with every CD ROM drive!!!**

EXTERNAL SCSI HARD DRIVES

Top quality drives in a top quality metal enclosure with cooling fan, in built power supply and SCSI ID selector.



**540MB SCSI HARD DRIVE
£234.99**

**1GIG SCSI HARD DRIVE
£314.99**

2GIG SCSI HARD DRIVE £399.99
(deduct £50.00 for uncased drive)

DATAFLYER SCSI+

Now includes CD ROM drivers and instructions.

The Dataflyer is a 16 bit SCSI II controller card that converts the signals on the internal IDE interface to also run SCSI devices at the same time as the IDE hard drive. The Dataflyer SCSI+ will operate up to 5 SCSI devices such as CD-ROMS, hard drives, Syquest removable drives, tape back up drives etc. Unlike other SCSI interfaces, the Dataflyer SCSI+ is compatible with all known accelerators etc and it does not stop you from utilising any of the important expansion ports on your A1200/A600. The Dataflyer SCSI+ easily installs into the A1200/A600 (simply pushes in, no need to remove the metal shield) and provides a 25 way D connector through the blanking plate at the back of the A1200. Full instructions and software supplied.



DATAFLYER ONLY £79.99 or £49.99

when purchased with a SCSI device

SQUIRREL ONLY £49.99 or £39.99 when purchased with a SCSI device

SURF SQUIRREL £89.99 or £64.99 when purchased with a SCSI device

MEMORY EXPANSIONS

A1200 trapdoor fitting memory expansions feature a battery backed clock and a socket for an accelerator FPU.

NEARLY DOUBLES THE SPEED OF THE A1200



4MB MEMORY EXPANSION £74.99

8MB MEMORY EXPANSION £94.99

33MHZ 68882 FPU (PLCC) £29.99 or only **£24.99** when purchased with above

MODEMS

Our highly rated, top quality feature packed modems are ideal for Amiga users. All modems include our **FREE MODEM ACCESSORIES PACK** (worth **£19.99**) which includes a cable to connect the modem to the Amiga, NCOMM comms software, Amiga Guide to Comms and a list of Bulletin Boards from which you will be able to download vast amounts of free software as well as have access to E-MAIL facilities.



- MNP 2-4 Error Correction • MNP 5 Data Compression
- Fax Class I and II compatible, Group 3 • Hayes Compatible
- Full 80 page manual • 12 Months guarantee

14400 MODEM £69.99

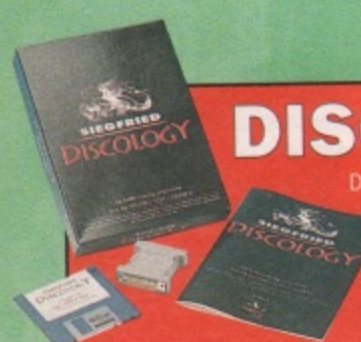
28800 MODEM £109.99

NET AND WEB SOFTWARE £34.99



DISCOLOGY

Discology is the ultimate in disk copying power for the Amiga. The package comprises the Discology Disk, manual and Discology cartridge for making copies of heavily protected programs with an external disk drive. Discology will also format disks, check disks for errors etc.



ANTIVIRUS

Anti Virus Professional is the most powerful tool for detecting and removing viruses. Anti Virus pro will check and device hard drives, floppy disks and even CD ROM drives for viruses. Very straight forward to use, includes a full 50 page manual.

ORDER NOW BEFORE A VIRUS DESTROYS YOUR SYSTEM !!!

PLEASE PHONE FOR A FULL INFORMATION SHEET

£19.99 EACH OR BUY BOTH FOR £24.99



ALSO AVAILABLE...

CLOCK CARTRIDGE £19.99
ASIM CDFS £49.99
CACHE CDFS £44.99
EPIC ENCYCLOPEDIA CD £19.99

WORLD OF A1200 CD and TOP 100 A1200 GAMES CD £7.49 EACH or FREE with every CD ROM drive!!!

Freephone 0500 340548 to place your order

APOLLO A1200 ACCELERATORS



APOLLO 1230

LITE £99.99

68030 with MMU and FPU. Will take a 4mb or 8mb SIMM.



APOLLO 1230/50 PRO £159.99

As above running at 50mhz with two SIMM sockets. Can take up to up to 64mb of RAM Can take up to up to 64mb of RAM. FPU and MMU fitted as standard. Simm sizes can be mixed or matched. Simms can be single or double sided. Fully PCMCIA compatible.



APOLLO 1240/60

68040/68060+MMU based A1200 accelerator. Features battery backed clock and a 72 pin socket for a standard 72 pin SIMM (up to 128mb). Fully featured, fan cooled trapdoor fitting accelerator.

NEW LOWER PRICE

APOLLO 1240/25 £229.99

APOLLO 1240/40 £299.99

APOLLO 1260/50 £489.99

4MB SIMM £34.99
8MB SIMM £59.99 OR
16MB SIMM £99.99 WHEN
PURCHASED WITH AN
APOLLO ACCELERATOR



HARD DRIVES

2.5" 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 and 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 HARDDRIVE'

video and Stakker disk to increase the drive's capacity with every hard drive ordered

85mb £89.99

420mb £129.99

1080mb £159.99

A500+420mb Hard Drive £209.99



CD-ROM DRIVES

COMPAQ DOUBLE SPEED CD-ROM DRIVE WITH SQUIRREL

Fully featured SCSI CD-ROM drive for use with the A1200 or A600. Simply connects via the PCMCIA port.

COMPAQ DOUBLE SPEED CD-ROM with Squirrel ONLY £139.99
6 SPEED + SQUIRREL £209.99
8 SPEED + SQUIRREL £259.99



ULTRA CD-ROM DRIVE



Superb IDE CD-ROM drive system for the A1200. Fully featured, top quality drives in a top quality enclosure with built in power supply. All cables, instructions, software including CD32 emulator and audio CD player etc., included for immediate use. The CD-ROM interface supply plugs inside the A1200 (exceptionally easy to fit by anybody) and provides a connector in the blanking plate at the rear of the A1200, next to the mouse socket.

PLEASE PHONE FOR FURTHER DETAILS AND INFORMATION SHEET

ULTRA 4 SPEED £169.99

ULTRA 8 SPEED £199.99

MEDIAVISION RENO CD-ROM

Double speed CD ROM DRIVE complete with power supply, SCSI cables, docking station and full instructions. Also includes stereo headphones and carrying case for use as personal CD player.



RENO CD WITH SQUIRREL £149.99

ZIP DRIVES

Highly rated SCSI drive will store 100mb per cartridge. Comes Complete with power supply, SCSI cable, instructions and cartridge.



ZIP DRIVES £159.99 OR
£199.99 with Squirrel



EZ FLYER

Incredibly fast (upto 4x faster than a ZIP drive) SCSI drive will store a massive 230mb per cartridge. Comes complete with power supply, SCSI cable, instructions and cartridge.



THE ULTIMATE REMOVABLE DRIVE

NEW LOWER PRICE

EZ FLYER

£299.99



No.1 FOR MAIL ORDER

No.1 FOR AMIGA IN MANCHESTER

Order NOW for immediate despatch

FREEPHONE 0500 340548
 (credit/switch card sales only)

for enquiries

tel: 0161 796 5279

fax: 0161 796 3208

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

Access, Visa, Switch, Delta, Connect etc accepted

OPEN:

Monday to Friday 9am to 6pm

Saturday 9am to 12pm

Personal callers welcome.

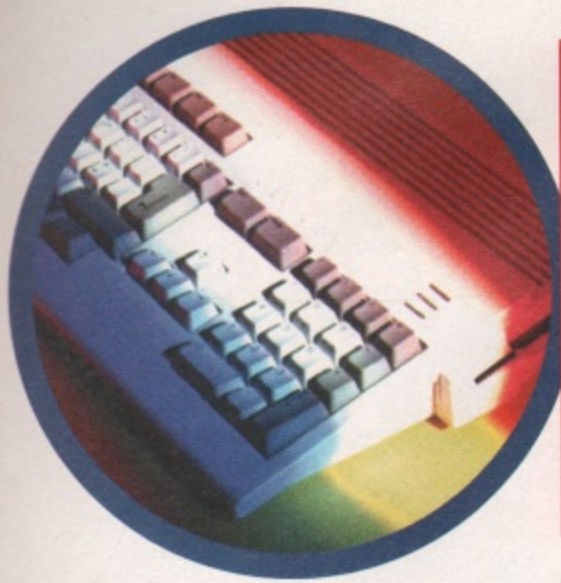
Please phone first to check availability of any item.

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 the florists opposite the Masons Pub.

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.



News

Super 'Amiga' Announced

Phase 5 have announced a stunning new computer platform called A\Box. A\Box will be able to run most Amiga software through emulation but the hardware design is totally different from anything currently available, based on custom chips with lightning fast data busses and interfaces. Here are the specifications:

- 128-bit high performance UMA (Unified Memory Architecture) controller, using fast SDRAMs with a clock frequency of 100 MHz and a maximum bandwidth of up to 1.6 Gb per second
- 64-bit processor bus with a maximum clock rate of 100MHz
- Two 24-bit video DMA units with freely addressable access, with integrated 24-bit video DACs
- Four 16-bit audio outputs, 44.1 KHz with any number of virtual tracks, sample output, FM and AM synthesis
- Video-in ports for 2 independent video inputs in Y/UV 4:2:2 quality
- Audio inputs with 16-bit stereo CD quality sampling
- LCD (TFT) display controller according to the VESA standard
- A PCI-bus interface for medium-performance I/O applications
- A local 16-bit DMA bus with 66.7 MHz and a maximum bandwidth of 132 Mb per second for universal low-cost applications
- An integrated IEEE 1394 'firewire' controller for digital I/O applications and desktop bus interface.

Phase 5 explained the central controller of the A\Box:

"The heart of the A\BOX is the system controller, Caipirinha,



which will realise the functional integration on which the A\BOX concept is based. Caipirinha opens up new dimensions of power and technology. Caipirinha will be implemented as a VLSI Custom Chip design in 0.35 um CMOS ASIC technology using modern, probably 575-pole BGA, housing."

"With a bus width of 128 bits to the memory bus, extensive dual-port buffers and FIFOs in the data lines, and clock rates of initially 100 MHz externally and 200 MHz internally, Caipirinha can provide an intense data throughput and powerful additional functions which do not rely on the processor, such as support for 3D and multimedia applications."

Compare this to current even high-end PCs which have a primitive 32-bit memory bus and system board clock speed normally of 33MHz. The extremely powerful video and audio functions certainly look set to impress professionals and enthusiasts alike just as the first Amiga did. The 'firewire' standard is a next

generation standard offering a serial bus which operates at over 100 megabits per second and can handle up to 64 devices.

Phase 5 elaborated:

"Caipirinha provides two video DMA engines: one 220 MHz high-performance video output for resolutions of up to 1600 x 1280 pixels with 24 bits and a refresh frequency of 75Hz and a Genlock-capable 135MHz video output for a second monitor or image output in video resolutions such as PAL/NTSC or S-VHS. The video output of the 135 MHz output can be superimposed as a window on the 220 MHz display while both video DMAs are in parallel operation."

Video output

This means that not only is the A\BOX suitable as a machine capable of ultra high-resolution 24-bit images but it retains the Amiga's capability to produce real video output for multimedia and rendering output uses etc. The ability to display video data of a different colour depth (and even

different formats such as Y/UV and CMYK) inside a window makes real-time video-in-a-window and professional DTP applications a cinch.

Phase 5 go to some length to document Caipirinha's internal DSP-RISC processing unit named FAME (Flexible Area Movement Engine). FAME allegedly supports special multimedia and 3D applications which can make optimum use of the supportive processing capacity available parallel to that of the CPU. Because it is a programmable DSP-RISC processing unit FAME is said not to be limited to today's standards. Phase 5 say its powerful features are also available for future standards such as new 3D or video-compression algorithms.

Audio channels

They go on to say that Caipirinha has two separate audio channels in 16-bit CD quality. Internally the number of virtual audio tracks is limited only by the memory space available and FAME is able to

engineer real-time generation and mixing of various audio tracks in any random format (e.g. also 24-bit audio) without making demands on the processor. They say it is also possible to generate various sound effects, a feature which is optimally supported by functions similar to DSP. In general, digital samples, FM-synthesized sounds and envelope-VCO generated tones can be generated, modified, mixed and output via these freely programmable audio-DMA's. Pretty exciting stuff for audiophiles.

Showing no sign of getting tired, the specification list goes on to describe the operating system:

"In general the A\Box project aims to implement an Amiga OS-compatible operating system of a state-of-the-art technical standard and to provide it as a basic operating system for the A\Box. Modern functions such as support for multi-processing are to be transparently integrated. The basis for this development has already been created in the form of the Amiga OS 3.1 compatible operating core which is currently being tested in the software labs of Phase 5 digital products."

Low price

Given the absolutely astounding specifications Phase 5 claim for the A\Box the question of price will be on every Amiga enthusiast's mind. Incredibly they claim that their unit will be on sale for around £1,300. The base specification of that unit will be 16Mb RAM, 1Gb hard drive and CD-ROM as standard. This compares extremely well against the specs of PC based machines even before considering the more

efficient Amiga based operating system and all that new custom hardware.

These are extremely bold claims by Phase 5. Having spoken to Wolf Dietrich, the MD of the company, in Cologne he set me straight on some points. The first concern being about the propriety hardware of the A\Box. Despite the high specifications many people have expressed concerns over being locked into buying a machine and subsequent hardware from one manufacturer.

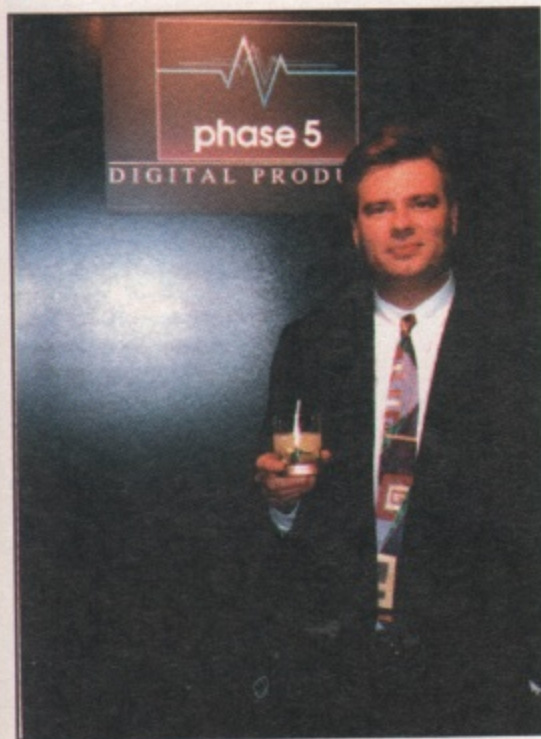
"The Power PC platform is little more than a PC with a PPC processor instead of a Pentium. It was apparent we needed hardware which would be as revolutionary as it was on the Amiga when it first arrived. We have no intention of keeping the hardware design to ourselves, we will not only allow licensing of the technology to third parties but actively encourage it."

Doomed Walker

Mr Dietrich expressed regret that the attempted co-operation with Amiga Technologies for a Power PC upgrade to the mythical 'Walker' wasted so much of their time. He was quick to point out that the A\Box will attempt to find a niche as a high-end work station as well as an enthusiasts machine. Their plans to ensure a port of the Linux UNIX flavour to the A\Box should go a long way to this goal. "Imagine opening up two shells. One is an AmigaDOS style shell and the other is Unix. The two could run together on the A\Box and it is our plan to make this a reality."

Admitting it was something of a gamble. Mr Dietrich hinted that they'd need to sell over 25,000 units to break even against development costs. It would be easy to dismiss the machine as vapourware were it not for Phase 5's reputation for delivering and their high profile in the Amiga market. Revealing that they've had an OS 3.1 compatible operating system in testing for three months clearly puts Phase 5 out in front as our hopes for a clear route to the future from the Amiga. CU Amiga Magazine wishes them the best of luck.

Wolf Dietrich, MD of Phase 5, sips a Caipirinha cocktail which lends its name to the revolutionary chip at the heart of the A\BOX.



Caipirinha, What's It All About?

That huge custom chip at the heart of Phase 5's A\Box certainly has an odd name. You might be forgiven for thinking it was short for some long technical description. We asked Wolf Dietrich what it was all about and he set the record straight by ordering two Caipirinhas from Phase 5's private bar. Yes, it turns out it's a cocktail and not just any cocktail. It's the national drink of Brazil.

Turns out that it's a favourite at Phase 5 after a long day of developing blistering new Amiga accelerators, not to mention the A\BOX. Since you heard it here first, we'll fill you in with the full

sordid details with nothing less than the full and unabridged recipe; to make a Caipirinha, halve three or four fresh limes and squeeze them into a tumbler. Drop in the rinds, along with a few cubes of ice. Fill to the brim with Pirassununga 51 Cachaca (sugar cane rum, AKA 'Pinga') and finally sprinkle sugar, sweetening to taste.

Note: Your Caipirinha needs to be stirred before and during drinking to facilitate the blending of the sugar. Serving in a short tumbler glass with a cocktail stirrer is preferable. If it's good enough for the gurus at Phase 5, it's good enough for us.

Power PC Upgrade

POWER UP
AMIGA™ GOES POWER PC™

Phase 5 also had their new Power PC upgrades on view at Cologne.

The Power Up project is a dual hardware/software plan of Phase 5's to provide Motorola Power PC based accelerators for the Amiga and implement a PPC Amiga compatible operating system in the longer term.

Power Up cards are based on a 680x0 CPU such as a 68040 or a 68060 in conjunction with a much faster Power PC chip such as a PPC604e clocked at 150 to 200Mhz. The PPC isn't a co-processor, it's a parallel CPU which also has access to the shared memory. This approach allows for the gradual porting of applications to PPC including the operating system with no 680x0

emulation slow-down.

Phase 5 also released pricing details of the A4000 Cyberstorm upgrades. These are sub modules which plug into the 68040/68060 socket on the Cyberstorm II card and which house the old CPU and the new PPC. Although pricing was not announced on A1200 trapdoor cards, they are expected to be available at the same time to the public. The first batch of 200 or so A4000 Power Up cards are destined for Amiga developer companies and will have been shipped by the time you read this. So begins the Amiga's move to Power PC at last.

Phase 5 have less expensive 603e based boards for A1200s ready for release at the same time

as the integrated A4000 Power Up card (a Cyberstorm II with a PPC socket). These are due to ship in the first quarter of 1997 and will be based on 64-bit rather than 32-bit technology to offer even further increases in performance over the current Cyberstorm upgrade.



Shown here is Phase 5's development system for the Power Up project. The unit under the middle monitor is a logic analyser connected via a bundle of wires to the 200MHz PPC604 inside the 4000 Tower.

Village Unveil Picasso IV

One interesting development from the Cologne show was the re-appearance of Villagetronic onto the Amiga market. They had two significant and related products on display; The new Picasso IV Zorro II/III RTG graphics board and the Picasso 96 RTG software to go with it (or any other kind of support RTG card). Very little was heard about the Picasso IV before the show but the impressive specifications were backed up with a live demonstration of a working production unit.

The Picasso IV boasts a new 64 bit Cirrus Logic graphics chip capable of much improved graphics performance over the earlier Cirrus chip found in the Picasso II. It also comes equipped with 4MB of 50ns EDO (Extended Data Out) RAM as standard for very high resolution 24 bit screens.

However, perhaps the greatest feature of the Picasso IV to place it apart from the others is provision of a built-in flicker fixer also as standard. There's also feature connectors for the Pablo video encoder, a TV tuner module (also demonstrated in Cologne with video-in-a-window) and a

forthcoming MPEG module. Exciting stuff.

The projected sales price of the card in the UK is £299 which although £50 more expensive than the forthcoming (and still as yet to be seen) Phase 5 CyberVision 3D, with 4Mb of RAM and a flicker fixer still offers excellent value for money. The flicker fixer alone can allow the use of a much cheaper standard PC monitor instead of a special unit capable of 15KHz video scan rates such as the Microvitec 1764.

Rather than using the older Picasso software, Villagetronic have commissioned an entirely new RTG software system in the shape of Picasso 96. This software amazingly offers CyberGraphX support which isn't going to leave anyone out in the cold as far as support from Amiga software. It does however have the advantage of a superior screen mode editor over CyberGraphX.

Look forward to a very exciting head-to-head review of the Phase 5 CyberVision 3D and the Villagetronic Picasso IV coming up the next issue of CU Amiga Magazine.

PPC For Tower-based A1200

Phase 5's Power PC upgrades (see page 13) even extend to one for the A1200. Similar to the Blizzard 1240 T/ERC accelerator reviewed on page 61, the A1200 card will need to be fitted to an A1200 in some kind of tower casing. Two CPUs and the sizable heatsink/fan for the Power PC will make this essential though the good news is that Phase 5 plan to offer upgrades for owners of existing Blizzard accelerators.

Phase 5 claim to be working in conjunction with the tower system manufacturer Eagle Computers so that bundled Power Up based tower systems can be made available for retail. Indeed at the Cologne show Haage and Partner demonstrated version 2.0 of their Storm C++ compiler on an Eagle Tower fitted with a Power Up card from Phase 5. Storm C++ is capable of generating PPC code and this was being demonstrated with a Mandelbrot program compiled with Storm C++ and running on the PPC card.

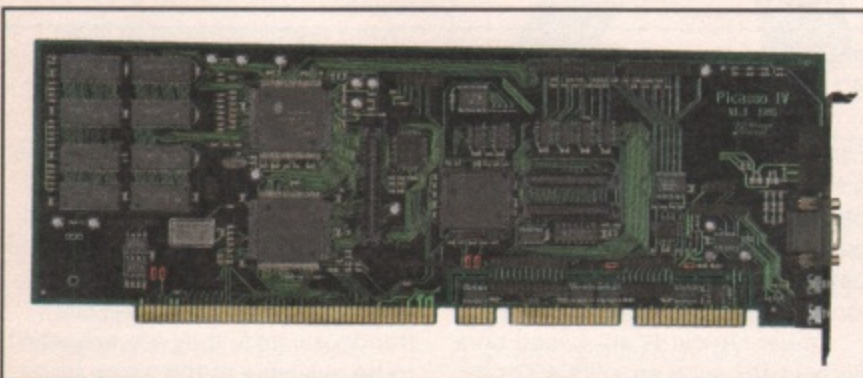
There wasn't much software available for the PPC but the author of the Reflections ray tracer had recently taken delivery

of a Power Up card and implemented some functions in PPC code. A function to make a polygon based object out of smoothly intersecting circles took some 28 seconds to run on the 50Mhz 68060 but barely 1 second on the 200Mhz Power PC. It was enough to make most observers jaw drop in amazement and promises much for the next year.

This move to Power PC frees the Amiga from the limited 'end of the line' 68060 CPU as the fastest possible processor upgrade. If Power PC upgrade option is taken up by enough Amiga users we could see a large number of applications re-compiled specifically for Power PC which would lead to drastic performance increases. Short of a new Amiga this is the best news anyone could hope for.

Phase 5 contacts

Phase 5 digital products
In der Au 27
61440Oberursel, Germany
Phone:00-49-6171-583787
Fax:00-49-6171-583789
Email:mail@phase5.de
WWW:http://www.phase5.de



▲ Top: the new Picasso and below: this is the new high resolution Workbench running on Picasso 4.

Advertisers' Index

1ST COMPUTER CENTRE.....I.F.C. & 3	0113 231 9444
17 BIT SOFTWARE	52.....01924 366982
ACTIVE SOFTWARE.....I.B.C.....	01325 352260
ANALOGIC.....	65.....0181 546 9575
CARE ELECTRONICS	17.....01923 894064
CU AMIGA CLASSIFIEDS	90-95.....0171 972 6700
DART COMPUTERS	33.....0116 247 0059
EPIC MARKETING	34 & 35
EYETECH.....	15, 40.....01642 713185
GASTEINER	60.....0181 345 6000
GORDON HARWOODS	8, 24 & 25, 43
GREYTRONICS	55.....0181 686 9973
HISOFT	22, 31.....01525 718181
INTRINSIC COMPUTERS	59.....01474 357560
LH PUBLISHING	29.....01908 370230
MARPET	58.....01423 712600
MEGATRONIX	46 & 47
OCEAN SOFTWARE.....	7.....0161 832 6633
OWL ASSOCIATES.....	33.....01543 250377
PREMIER MAIL ORDER.....	81.....01268 271172
SADENESS PD.....	52.....01263 722169
SIREN SOFTWARE	10 & 11
SPECIAL RESERVE.....	17.....01279 600204
SOFTWARE 2000.....	70 & 71, 82
V12 PD	74.....01507 450114
VISAGE	26.....0115 944 4500
VULCAN SOFTWARE.....	39.....01705 670269
WARNER INTERACTIVE	O.B.C.....0171 391 4300
WEIRD SCIENCE	56 & 57
WIZARD DEVELOPMENTS.....	48.....01322 527800

The Top-Rated Eyetech CDPlus for the A600 & A1200 4-speed and 8-speed CDROM drives



The CDPlus and SyQuest EZ135 drives

- ✓ 4- or 8- speed external CDROM unit in quality CE-approved case with heavy duty PSU
- ✓ Leaves trapdoor free for accelerators / memory expansion
- ✓ Leaves PCMCIA slot free for digitisers, modems, samplers etc
- ✓ Easily detachable for transport
- ✓ Option to add additional HD's, CDROMs, SyQuests, Jazs, ATAPI tape streamers etc powered from the CDPlus unit
- ✓ Comes with special Eyetech 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)
- ✓ Gold plated audio phono sockets at rear and front panel headphone socket and volume control
- ✓ Complete with 'Click-and-Go' installation software

What do the reviewers say?
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..."

Amazing Value:
4-speed - only £169.95
8-speed - only £199.95

Also available without CD mechanism (so you can fit your own drive) for £129.95



The CDPlus MiniTower & Desktop cases

Considering a PowerStation? The CDPlus is now available with an alternative, 230W, CE-approved, PC MiniTower or Desktop case (which can also power your A1200) - for only £25 extra

SX32Mk2 & SX32Pro Internal Expansion for the CD32

At last - the SX32 Pro is here!

- ✓ Twice the memory access speed of an A4000/40 (AIBB)
- ✓ Runs Gloom at full speed - in full screen mode!
- ✓ Make your CD32 into a high powered, portable Amiga!



The SX32Pro

The SX32Pro and SX32Mk2 add ...

- ✓ 33 or 50MHz '030 MMU CPU and FPU socket (33MHz FPU socket only on the SX32Mk2)
- ✓ Simm socket for up to 64MB of 32 bit fast (60/70ns) RAM (up to 8MB fast (70ns) RAM on the SX32Mk2)
- ✓ Buffered IDE interface for internal 2.5" hard drive and second hard drive, SyQuest, Jaz or even 8 speed CDROM (optional extra on the SX32Mk2)
- ✓ Sockets for RGB video (23 pin), VGA video (15 pin), Parallel port (25 pin), Serial port (25 pin), Floppy disk port (23 pin)
- ✓ Jumper-selectable for PC or Amiga keyboard input via CD32 AUX socket (external adapter on SX32Mk2)

... to the CD32's existing mouse, joystick, keyboard, audio, RF, composite video and SVHS ports.

What do the reviewers say?
Amiga User Int'l "95% - Definitely Recommended"
Amiga Computing "90% - A Dream to Use." Blue Chip Award
Amiga Format "93% - A Job Well Done" Gold Award

SX32Mk2 - until Xmas - £189.95
SX32Pro-33 £299.95
SX32Pro-50 £369.95

Genuine Amiga 89-key compact keyboard £34.95
 SX32 floppy, hard drives 20MB-1.1GB, RAM - Please ring

All models include full pictorial fitting instructions, WB3.0 & utilities on CD and 'Click-and-Go' hard drive installation diskette

Microvitec 15" & 17" Multisync Monitors

- ✓ Supports all Amiga and most PC modes up to 1280x1024 pixel resolution
- ✓ 15-64KHz horizontal and 50-120Hz vertical scan rates
- ✓ Automatically adjusts size and position settings on change of display mode
- ✓ Cu Amiga SuperStar rating at the original RRP of £699!



Superb Value: 17" now only £549.95
 15" now only £399.95
 (Specifications given for 17" model)

EXCLUSIVE! - A superb Amiga Internet package from the World's largest independent Internet Service Provider - only from Eyetech

The Eyetech GetConnected Internet upgrade package for diskette-only A1200's - for just £199.95 including VAT

- ✓ 4MB memory expansion, V32 (14.4) modem, all cables and full installation instructions
- ✓ Complimentary 21MB hard disk with NETcomplete™ s/w for the Amiga preinstalled
- ✓ Three months unlimited Internet, Web and email access with 1 MB of your own World Wide Web space
- ✓ Internet reference book by acclaimed communications and Amiga journalist 'Wavy' Davey Winder

Many other options are available - ring or send for further written details - eg:

- ✓ Upgrade to V34(28.8Kbps) fax/data modem - £50.00
- ✓ Upgrade to larger hard drive/memory - please ring
- ✓ GetConnected Pro - V34 modem, cables, software on CD, 3 months unlimited usage at local call rates, 24hr technical support from NETCOM - just £189.95

NETCOM and NETCOMPLETE are trademarks of NETCOM Online Communication Services Inc.

AMIGA Complete Software
 ✓ Customised Amiga software
 ✓ Click and go! installation
 ✓ All-inclusive 'GetConnected' hardware/software/Internet bundles only from Eyetech

Complete Access
 ✓ Local telephone dial-up
 ✓ Nationwide coverage
 ✓ Quality network connectivity

Complete Support
 ✓ 24 hours a day
 ✓ 7 days a week
 ✓ Total subscriber service

Complete Value
 ✓ No start-up fee
 ✓ Unlimited usage
 ✓ Fixed monthly charge

AMIGA HEALTH WARNING - Please read this in your own interest

If you have recently fitted - or intend to fit - an IDE/ATAPI CDROM to your A1200 (other than an Eyetech CDPlus unit) without a buffered interface then your Amiga is in risk of serious damage arising in the future. The A1200 - unlike A4000's and PC's - has NO internal IDE buffering. On the A1200 the IDE interface connects directly to the A1200 processor chip which itself has insufficient output to drive more than one IDE/ATAPI device (and only then on a short data cable) for any sustained time period. To the best of our knowledge the Eyetech CDPlus is the only A1200 ATAPI CDROM supplied with a buffered interface as standard. We are now making this 4-device buffered interface available separately for use with other kits and D-I-Y CDROM installations. At only £39.95 inc VAT it is a small price to pay to preserve your Amiga's health.

Ready-to-Go 230 Watt power supply with A500/A600/A1200 lead

- ✓ Complete Plug-in-and-use unit
- ✓ 10x the output of the standard A1200 psu
- ✓ Additional power connectors for external hard drives and/or CDROM's
- ✓ An essential upgrade for reliable use of expanded Amigas particularly '040 accelerators and CDROMs



230W Ready-to-Go psu - only £59.95
13A-IEC ("kettle-lead") cable - if required £2.50

A1200 InstantDrive Hard Disk Kits

InstantDrives are only available from Eyetech



Important Note! 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 - reducing the value of your computer. All InstantDrives from Eyetech are less than 20mm high and fit perfectly

- ✓ Rated 99% - AUI November 1996, 95% - Amiga Format October 1996
- ✓ No hole drilling, case clipping, or shield removal required
- ✓ All drives are brand new with a 2 year warranty and come inclusive of full fitting kit and easy-to-follow pictorial instructions
- ✓ Ready-to-use with WB3.0 and over 45 top quality utilities installed and configured to the Toolset menu system.
- ✓ AV drives come with a fully licensed version of Optonica's MME multimedia authoring software OR Internet access software (shareware) preinstalled

1.1 GB AV £199.95 2.5 GB AV (3MB/s) - £299.95

2.5" hard drives for the A600, A1200, SX32 and SX32 Pro
21MB Ideal for users of mainly CDROM software on the CDPlus and SX32 £29.95
256MB A superslim drive ideal for the SX32Mk2 and the A1200/A600 £129.95
344MB One of our most popular 2.5" drives - just a few of these left now £139.95
540MB A superb, superslim drive ideal for users of serious applications £179.95
1.08GB This top-of-the-range superslim drive is perfect for the SX32Pro £249.95

D-I-Y and Bargain Corner - for those hard-to-find parts for your Amiga expansion project

- Hard drive cables and cases**
 2.5"-2.5" 44-way hard drive cables for A600 & A1200 £9.95
 3.5" power & data cables for A600 & A1200 £16.95
 3.5" full fitting kit for A600 & A1200 (contains everything) £27.95
 3.5" external hard drive case £19.95
 3.5" removable drive deluxe external HD case £29.95
- CDROM cables, cases and interfaces**
 4-device buffered EIDE interface for A1200 £39.95
 4-device EIDE interface & cable assembly for A4000 £34.95
 44-way to 44-way + 40-way unbuffered IDE interface/adaptor £19.95
 3 x 40-way IDE cable for 3.5" HD/CDROM -70cm £9.95
 Metal CDROM case (no psu) £12.95
- Power supplies and PC towers/desktops with integral psus**
 Enhanced 145W metal cased PSU for A600/A1200/CD32/CDROM/external HD (fit your old lead - instructions provided) £39.95
 Mini-tower or desktop case with 230W+ PSU, CD & HD bays £59.95
 Extension cable from PSU to external HD/CDROM £9.95
VGA 23-15 pin adapter for A500/500/1200 £9.95
 23-15 pin buffered VGA adapter for A4000 £24.95
GG2+ board - use PC cards in big-box Amigas £129.95
 Sana compliant ethernet card & drivers for GG2+ £29.95
 1xP, 2xS, 2xIDE board & drivers for GG2+ £19.95
- This Months Specials**
Colour Video Cameras - PAL, v. High quality - for Prograb etc £149.95
Data/fax modems with cables, psu - V32 14.4Kbps - CE, BAPT £59.95
 V34 28800bps data, 14400bps fax, CE & BAPT approved £119.95
20-pin Zip RAM 4x1Mbit chips 60ns for A3000, '386 board £12.95
A1200 RAM boards (clock, FPU skt) £49.95
 with 4MB RAM (add £39.95 for 33MHz FPU & crystal) £69.95
 with 8MB RAM (add £39.95 for 33MHz FPU & crystal) £89.95
ZIP SCSI drives & cartridges - 100MB - Special Purchase £144.95
 100MB ZIP cartridges £14.95
Slim external floppy drives, antivirus, pass-through connector £39.95
Stereo speakers (pair), amp & psu for CDROM/CD32/A1200 £14.95

The Eyetech SX32 Combo Pack

This really is the Amiga bargain of a lifetime - but is only available whilst stocks last

Just look what you get!

- ✓ Brand New CD32, games controller/joystick and power supply
- ✓ SX32 with real time, battery-backed clock
- ✓ Amiga 89 key compact keyboard
- ✓ 6MB of memory (2MB chip + 4MB fast)
- ✓ 21MB hard drive and cable (upgrades to larger sizes are available - ring for details)
- ✓ WB3.0 on CD together with over 600MB of utilities, games
- ✓ Hard drive cable and partitioning, formatting and workbench installation diskette



CD32/SX32 Combo Pack - £399.95
Also available with the SX32 Pro - ring for details

Why not enhance your Combo with the ComboPlus accessory package? Buy the ComboPlus with your SX32 Combo and get a mouse, mousemat, Amiga 'First Steps' book, audio leads and 2 extra Amiga CD's for only £24.95

STOP PRESS - Special Purchase Amiga A1200's from £199.95!!!

These are tested but otherwise unused, ex-engineers backup machines in as-new condition but without retail packaging

- 'Bare-bones' A1200 - for an A500/A600 upgrade
 - without psu, mouse, disks or manuals - only £199.95
- Full A1200 - a complete Amiga A1200 system
 - with psu, mouse, WB3.0 disks & manuals - only £229.95



ChipUp



Rated 95% AUI Oct 1996
 1MB to 2MB chip ram expansion for the A1500, A2000 and A500 computers
Now only £99.95

Eyetech Group Ltd

The Old Bank, 12 West Green, Stokesley, N Yorks, TS9 5BB, UK
 Tel: +44 (0) 1642 713 185
 Fax: +44 (0) 1642 713 634
 eyetech@cix.compulink.co.uk
 http://www.eyetech.co.uk/~eyetech

Next day insured delivery charge:
 Hard/floppy, boards, SX32 £9 UK, £15.05 EC, CDPlus £10 UK (2 day), £19 Ireland, £29 EC, software, cables £2.50 UK, £8.05 EC. Ring/fax/email for other delivery charges

Next day insured delivery charge:
 Hard/floppy, boards, SX32 £9 UK, £15.05 EC, CDPlus £10 UK (2 day), £19 Ireland, £29 EC, software, cables £2.50 UK, £8.05 EC. Ring/fax/email for other delivery charges
 * A 3% surcharge is applicable to all credit card orders.
 All prices include VAT at 17.5%.
 VAT is not applicable to non-EC orders.



CU Amiga coverdisk special offer!



**You've seen the software, now buy the 600+ page manual
and learn how to get the most out of X-Cad 2000.**

The cost is only £14.95 (plus p&p), available from Almathera.

To order:

On the web: <http://www.almathera.co.uk>

Telephone: 0181 687 0040 (credit card orderline)

or send a cheque, postal order or credit card details to: Almathera, Southerton house, Boundary Business Court, 92-94 Church Rd, Mitcham. Surrey. CR4 3TD.

UK P&P: £2.25 for first manual, add £1 for each additional manual required.

Europe: £5 for first manual, add £1 for each additional manual required.

Rest of World: £10 for first manual, add £1 for each additional manual required.

Postage is 1st class Recorded/International recorded delivery.

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



I'd like [] copies of the X-Cad 2000 manual at £14.95 each, plus postage and packing (see above).

I enclose: [] a Cheque/Postal Order or [] please charge my credit card (Visa, Access, Eurocard, Mastercard, Switch)

Title:.....Initial(s):Surname:..... Address:.....

CountyPostcode/zip:.....Country:.....

Daytime telephone:.....Evening telephone:.....

CREDIT/DEBIT CARD No:

EXPIRY DATE:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Cheque /Postal Order or Bankers Draft for: £ Payable to Almathera systems Ltd.

CUX1

Card Authorisation Signature

Switch Issue Number

MAIL ORDER

PRINTERS
CITIZEN ABC COLOUR
129.99
HIGH QUALITY 24 PIN
CANON BJC 4100
214.99
SUPERB ALL ROUND
COLOUR INKJET

WE STOCK A WIDE RANGE OF PRINTERS AND
GENUINE ACCESSORIES FOR CANON, CITIZEN, EPSON,
HEWLETT PACKARD, LEXMARK AND PANASONIC

CONTROLLERS
LOGIC 3 SPEEDMOUSE ...12.99
300DPI RESOLUTION

**QUICKSHOT 137F
PYTHON** ...11.99
WITH AUTOFIRE

**COMPETITION PRO
JOYPAD** ... 16.99
FOR AMIGA & CD32
WITH TURBO/AUTOFIRE

AMIGA RAM SHOCK !!!!!

1 MB A500+ RAM + CLOCK	32.99
1 MB A600 RAM + CLOCK	39.99
4 MB RAM BOARD FOR A1200 + CLOCK	95.99
4 MB + 33 MHZ FPU RAM BOARD FOR A1200 + CLOCK	139.99
8 MB RAM BOARD FOR A1200 + CLOCK	109.99
8 MB + 33 MHZ FPU RAM BOARD FOR A1200 + CLOCK	159.99
4 MB (SIMM CHIP) RAM FOR A4000 AND SX-1	19.99
8 MB (SIMM CHIP) RAM FOR A4000	37.99
16 MB (SIMM CHIP) RAM FOR A4000	89.99

SIMM MEMORY 72 PIN, 70NS, 32 BIT, SUITABLE FOR MOST PCs

9.30am to 8pm Mon-Sat
10am to 5pm Sunday & Bank Holidays
01279 600204
OR Fax 01279 726842 (we'll fax back)
HEAVY discounts HUGE range
Credit terms subject to status
Regular 48 Page Colour Club Magazine

Special Reserve
Live all day
special reserve on offer

Amiga Software
(HDD) - HARD DRIVE REQUIRED

**Amiga A500 &
Compatible**

ALIEN BREED - TIASSAULT	7.99	£12
ALIEN BREED 2	7.99	£19
ARCAD POOL	9.49	
BATTLE FOR THE ASHES	9.99	
ING 100	9.99	
BLACK CRYPT	11.99	£1
CANNON FOODER	13.49	£1
CENTERFOLD SQUARES	4.99	
CHAMPIONSHIP MANAGER 2	21.99	£8
CHAMPIONSHIP MANAGER 2	16.99	£3
CHAMPIONSHIP MANAGER	9.99	£18
CLUB FOOTBALL	7.99	£22
COLLOSSUS CHESS X	4.99	
COVER GIRL STRIP POKER	11.99	£3
CRICKET CAPTAIN	4.99	
CRICKET COLLECTION VOL 1	14.49	
CRICKET COLLECTION VOL 2	9.99	£3
DAILY DOUBLE	4.99	
HORSE RACING	38.99	£11
DELUXE PAINT 3	4.99	£75
DESERT STRIKE	11.49	£1
DUNE	11.49	£3
DUNE 2	13.99	£1
BLITE	4.49	£20
FINAL WRITER (4 MB HDR)	68.99	£6
FOOTBALL COLLECTION VOL 1	16.49	£3
FORMULA 1 - WCE	14.99	£15
FORMULA 1 GRAND PRIX	5.99	£11
GRAHMAN GOOCH	12.99	£12
HOME ACCOUNTS	3.99	£46
KINGPIN	7.99	£5
LEMMINGS	3.99	£6

A1200 Software

ACID ATTACK COMPILATION	16.99	£3
ALIEN BREED - TIASSAULT	7.99	£12
ALIEN BREED 2	6.99	£23
ALIEN BREED 3D	9.99	£20
ALIEN BREED 3D 2	22.99	£7
KILLING GROUNDS	23.99	£6
CHAOS ENGINE 2	7.99	£22
CIVILISATION AGA (UNBOXED)	15.99	£19
COLONIZATION	13.99	£16
DUNGEON MASTER 2 (HDR)	14.99	£15
FEARS	20.99	£9
GLOOM (DOOM CLONE)	12.99	£17
GROOM DELUXE	7.99	£5
GUARDIAN	24.99	£5
KINGPIN	4.99	£8
LORDS OF THE REALM	11.49	£3
MONEY MATTERS 4	39.99	£5
OCTAMED SOUNDSTUDIO V1	19.49	£18
ON THE BALL - WCE (HDR)	16.99	£18
PINBALL ILLUSIONS	10.99	£4
PINBALL PRELUDE	12.49	£17
ROAD KILL	14.99	£15
SIM CITY 2000 (4MB HDR)	19.49	£10
SIMON THE SORCERER	16.99	£9
SLAM TILT	65.99	£14
SUPER LEAGUE MANAGER	21.99	£8

CD32 Games

ACID ATTACK COMPILATION	14.99	
ALIEN BREED - TIASSAULT	19.99	£10
ALIEN BREED 3D	14.99	£15
ARCAD POOL	7.99	£7
CHAOS ENGINE	4.99	£10
EXILE	5.99	£24
FIELDS OF GLORY	14.99	£15
GLOOM (DOOM CLONE)	10.99	£19
GUARDIAN	7.99	£7
KINGPIN	2.99	£12
OSCAR & DIGGERS	19.49	£10
PINBALL ILLUSIONS	10.99	£4
ROAD KILL	9.99	£20
SOCCER KID	4.99	£10
SPEEDBALL 2	12.99	£13
SUPER LEAGUE MANAGER	17.99	£12
STAR CRUSADER	21.49	£8
WORMS	23.99	£11

FREE WHEN YOU BUY ANY ITEM AT THE SAME TIME AS JOINING OR RENEWING FOR ONE YEAR OR MORE

THREE AMIGA GAMES FREE
Senshi Soccer, Desert Strike, Push Over, Road Rash, Cool Spot & Humans

OR

SIX AMIGA GAMES FREE
Senshi Soccer, Desert Strike, Push Over, Road Rash, Cool Spot & Humans

OR FOUR A1200 GAMES FREE
Lemmings, Zool, Rome & Epic

OR LIGHT GUN
Light gun for any Amiga with 2 free games

ABSOLUTELY FREE
Other offers available - please call. Overseas members add £2 carriage. All offers subject to stock

AMIGA PARTS

COMMODORE AMIGA POWER SUPPLY	27.99
IDEAL REPLACEMENT FOR A500, A500+, A600 AND A1200	
EXTERNAL DISK DRIVE FOR AMIGA OR SX-1	47.99
EXTERNAL 14.4 FAX MODEM	64.99
SMALL COMPACT DESIGN, COMPLETE WITH CABLES, INTERNET BUNDLE AND FREE STARTER GUIDE	
ANTI-SURGE 4 WAY TRAILING MULTI-PLUG	24.99
INTERNAL DISK DRIVE FOR A1200/A600	59.99
INTERNAL DISK DRIVE FOR A500	34.99
DUST COVER FOR A500	7.49
HIFI LEAD - AMIGA/CD32 TO STEREO	5.99
MONITOR LEAD - AMIGA TO CM8833 OR 1084S	12.99
SCART LEAD - AMIGA TO SCART TV	10.99
SCART LEAD - CD32 TO SCART TV	10.99

BLANK DISKS

PACK OF 10 MAXELL DD 3.5" DISKS WITH FREE DISK BOX	6.99
PACK OF 50 MAXELL DD 3.5" DISKS	18.99
3.5" FLOPPY DISK HEAD CLEANER	6.99

Check out the enormous Special Reserve Internet site @ <http://special.reserve.co.uk>
On-line, easy-to-use, secure ordering via internet with free fast delivery.
Cheat Zone, Game Links, 100's of Game reviews & Much, Much More.

Look around our vast range of software & hardware items at our Special Reserve club shops
Over 2,000 items stocked
Our HUGE club shops are situated in Sawbridgeworth, Chelmsford and now Bristol.

WE ONLY SUPPLY MEMBERS BUT YOU CAN ORDER AS YOU JOIN

TRIAL MEMBERSHIP ONLY £1 (1 MAGAZINE)

ONE YEAR MEMBERSHIP £7.00 (UK) £9.00 (EC) £11.00 (WORLDWIDE)
Buy one item as you join for a year and we'll give you a choice of great FREE gifts
Over 250,000 people have joined and Special Reserve has 80 dedicated staff.
Members are under no obligation to buy anything. Our regular club magazine contains a staggering selection of products, many at below trade price.
Hundreds of pages of information on our internet site at www.reserve.co.uk
Amazing club shops at Bristol, Chelmsford, and Sawbridgeworth.
PC repairs & upgrades at Sawbridgeworth (e.g. your 486 to Pentium by mail).
No Quibble return policy £4 min or 25% - see the club magazine for details.

Overseas orders must be paid by credit card
Hardware items (battery or mains) are only supplied to the UK mainland
Overseas surcharge £2.00 per software item or 25% on other items

(BLOCK CAPITALS please)

Name & Address _____
Postcode _____
Machine _____
Enter membership number (if applicable) or _____
MEMBERSHIP FEE (ANNUAL £7.00)
Item _____
Item _____
Please use this box to add any optional fast delivery charge
1st Class Post 50p per posted item or £3 hardware
ALL PRICES INCLUDE UK POSTAGE & VAT
Cheque/P.O./Access/Creditcharge/Switch/Visa _____
CREDIT CARD _____ SWITCH _____
EXPIRY DATE _____ SIGNATURE _____ (ISSUE NO) _____

Mail Order address. Cheques payable to:
SPECIAL RESERVE
P.O. BOX 847, HARLOW, ESSEX, CM21 9PH
Inevitably some games listed may not be available. Please phone to check availability.
SAVE - Saving off full retail price. Inter-Mediate Ltd, The Maltings, Sawbridgeworth, Herts.
Prices may change without prior notification. Sent to press 06.11.94 £. & O.E.

CARE QUALITY & SERVICE

QUALITY INK JET & BUBBLE JET REFILLS

Our refills use only top quality inks. You buy direct from us hence our superb quality at sensible prices.
Black refills for HP Deskjet 500, 510, 550, 500C, 550C, 560C, 660C, 850C
CANON BC-01, BJ10E/EX/SX, BC-02, BJ200, BJ130, BJ300, BJ330
EPSON STYLUS 800, 1000. CITIZEN PROJ. OLIVETTI JP150, 250, 350.
6 refill (3 on high capacity cartridges) kit 120ml pure black £16.99
CANON BJC600, BJC4000/4100 20 refills pure black 120ml £16.99
EPSON STYLUS 4 refills 120ml pure black £16.99

TRICOLOUR REFILL KITS:
HP Deskjet range 10 refills of Yellow, Magenta & Cyan 180ml £24.99
CANON BJC600, 4000/4100 10 refills of Yellow, Magenta & Cyan £24.99
EPSON STYLUS Colour/II/Is Yellow, Magenta & Cyan 180ml £24.99
"Print Head Recovery Fluid" for unblocking nozzles NEW LARGE SIZE NEW LOW PRICE! £6.99
all kits come with full instructions Other refills available.
Important: Please state type when ordering

Colour Printer ribbons & reloads

Citizen Swift/ABC/240 etc	£11.95	£6.99	£29.95
Panasonic KXP2123/2124/2180	£9.99	£6.99	£29.95
Panasonic KXP2135	£9.99	£6.99	£29.95
Star LC200 9pin	£9.99	£5.99	£29.95
Star LC24-10/20/200	£9.99	£6.99	£29.95
Star LC24-30/LC240	£8.99	£4.95	£19.99
Seikosha SL95	£14.95	£6.99	£29.95

Special Re-Ink

For Panasonic 1080/81, 1123/24, 2123/80, 2135, Star LC200 9pin, Epson LQQ100/150, Oki 182 to 390 range. Black bottle will re-ink 100+ ribbons. £9.95

Black Printer Ribbon Reloads

Citizen Swift/ABC/120D 5 black reloads	£9.99
Star LC10/20/100 5 black reloads	£4.99
Star LC24 range 5 black reloads	£9.99
Seikosha 1900/2400/SL95 5 black	£9.99
Epson FX80 to LQ800 range 5 black	£11.99
Star LC24-30/LC240 5 black reloads	£14.99

T-Shirt printing ribbons

4 col Citizen Swift/ABC/240	£19.99
4 col Panasonic 2123/2135	£19.99
4 colour Star LC200 24pin	£19.99
reloads for above	£9.99
4 colour Star LC200 9pin	£12.99
4 colour Star LC10	£10.99
reloads for above	£7.99
Black Citizen Swift/ABC/120D	£9.99
Black Star LC10	£9.99
Black Star LC200 9pin	£9.99
Black Pan KXP1080/81	£9.99
Black Pan KXP1123/24	£9.99

T-shirt printing is simple, just print onto normal paper & iron on. One ribbon gives lots of prints. We can also supply ribbons in many colours T-shirt and normal ink.

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.
Fax order line 01923 672102

MAIL ORDER

Tel ORDER LINE 01923 894064

HOW TO ATTRACT GIRLS
EVERYTHING you need to know!

Two unique new illustrated guides, reveal all the secrets and techniques that can bring you sex-cess with women - OR YOUR MONEY BACK!

1. HOW TO PICK UP GIRLS
REVEALS: • The best pick-up techniques. • Over 100 fantastic opening lines • How to instantly attract girls you have only just met. • A simple rule that will triple the number of dates you get. • Fool-proof conversation techniques. • How to win over "hard to get" girls. • How to date exceptionally beautiful girls. • How to be so great on dates girls will want to be with you again.
£12.95 postpaid.
A4 Soft cover. 72 pages

2. HOW TO SUCCEED WITH GIRLS
REVEALS: • More brilliant "pick-up" techniques and opening lines. • How to become "sexually attractive". • Secrets that girls will never tell. • What really turns a woman on. • The art of seduction revealed. • What you need to know to be "G.I.B." (Great in Bed). - and much, much more!
£12.95 postpaid.
A4 Soft cover. 64 pages

User reports confirm success:
"Just two days after receiving your guides I picked up the most beautiful girl I had ever spoken to in my life. It was something that one week earlier would have been impossible."
- D.S., London
"My only disappointment is that it's available to other men and I can't keep what I've learnt all to myself!"
- D.B., Hemel Hempstead

MONEY BACK GUARANTEE: If your not 100% delighted you may return either guide for a full no-questions-asked refund!

Credit card holders may phone **01534-617181** (24-hr answerphone)
CASUTI LTD., PO BOX 115, 20 BRITANNIA PLACE, ST. HELIER JE4 8QQ

YES! I want to be successful with girls. I understand that if I'm not 100% satisfied with the goods I receive I may return them in good condition for a full refund. On that basis please send me:
 HOW TO PICK UP GIRLS - Price £12.95 inc. p&p. HOW TO SUCCEED WITH GIRLS - Price £12.95 inc. p&p.
 I am ordering both of the above at the special combined price of just £20 inc. p&p.
I enclose a cheque/PO for £ _____ payable to CASUTI LTD. (foreign orders add £3) or debit my ACCESS/VISA/MASTERCARD
Acc. No. _____ Expires _____
Name _____ BLOCK CAPITALS PLEASE
Address _____
Post Code _____
CASUTI LTD., PO BOX 115, 20 BRITANNIA STREET, ST. HELIER JE4 8QQ
All orders are discreetly despatched under plain cover.

Just 4 You!

Not only have we covered the latest version of the wonderful Imagine series, we're also doing a special feature on all the wonderful things that this package has to offer. Happy Christmas!

Imagine 4 is a very powerful program, with many different features and facilities. To try and organise everything so you aren't overwhelmed by it, different features are separated into different Editors. Each Editor has its own screen, its own menus and its own buttons. The key to getting to grips with Imagine is to understand when to use a particular Editor. So for the purpose of this article we're going to help you understand just how to do that, so you can spend hours of enjoyment over the holidays creating your own renders with this wonderful package.

First, things first. Access to the

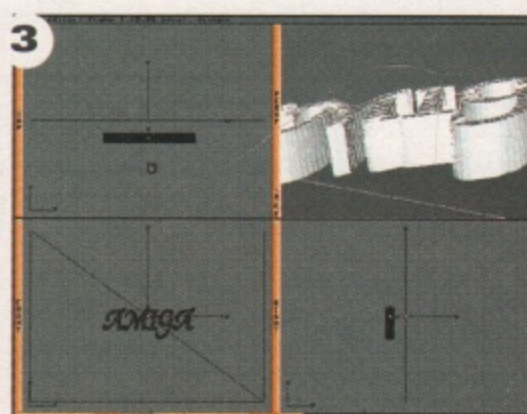
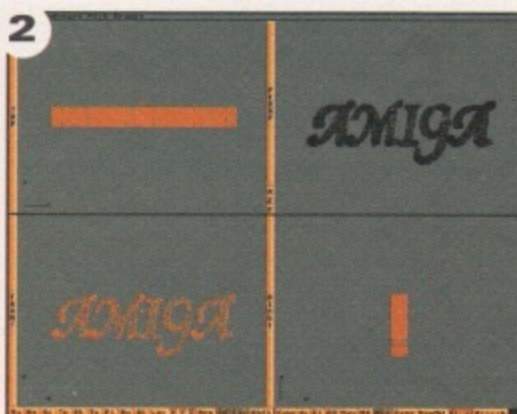
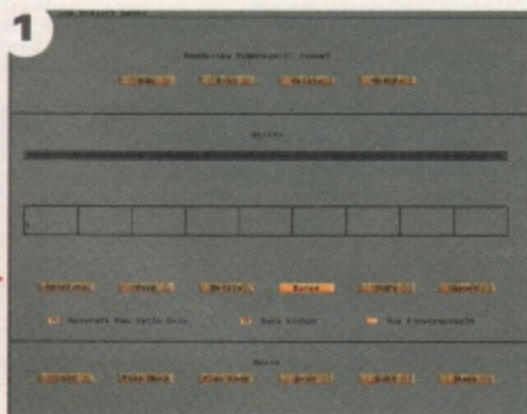
different Editors is through the first pull-down menu on the far left of the screen. The three most important Editors, Project, detail and Stage are shown below: master these three and you'll be able to render some impressive pictures.

The Project Editor (1) will start almost every session of Imagine. If you don't want to load an existing project from the title screen, you should select NEW and this will bring you to the Project Editor. It's here that a new project is created. Creating the project itself is pretty simple: pick a name which you will remember.

The Detail Editor (2) is where new objects are created or where you can

manipulate existing objects. It's here where the object's 'attributes' (textures, mappings and physical properties) can be defined. Objects can be constructed from primitive shapes or created from smooth outlines. Once created, they are saved to disk ready for use in the next Editor.

The Stage Editor (3) is where objects are positioned. Your stage is an empty three dimensional world, and it's where you load in objects and lights sources, and position them all. A view in the top right lets you preview what the scene will look like. When you are happy, return to the Project Editor and render your view in full three dimensions.



Imagine 4's three most important editors: (from left) Project, Detail and Stage.

Dealing with objects

Imagine allows objects to be manipulated in many ways. In this project, we'll take a look at how its possible to re-position and re-size objects.

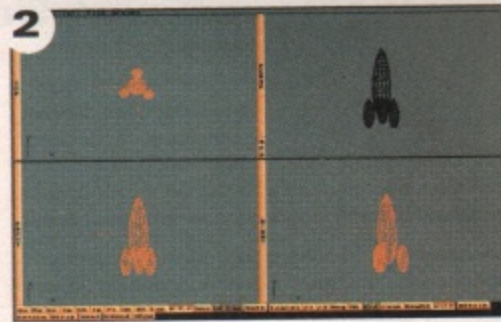
Run Imagine and go to the Detail Editor. You can do this by selecting 'Detail Editor' from the first pull-down menu or by pressing the Right Amiga key and 2. Now select the pull-down menu entitled 'Object' and select the 'Load' option. You'll see a requester like pic 1.

You will need to enter IM: into the

Drawer field, and you'll see a list of files. Select the file called 'Rocket' and click on OK. You'll see something like pic 2.

You'll see the rocket object drawn in orange in the three plan views and in black in the 3D preview window. Press F1 to highlight the object and it will turn purple. Now you can start to manipulate it.

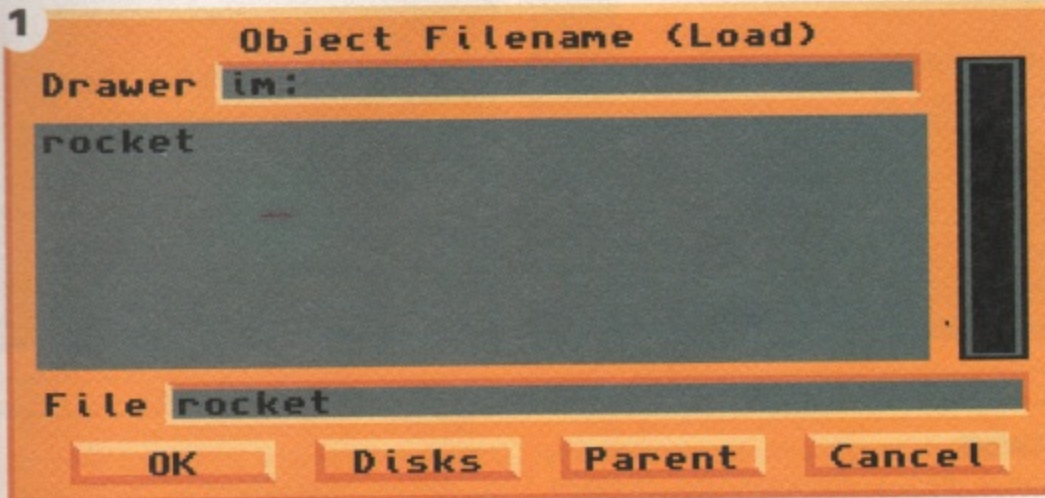
At the bottom of the screen there is a row of small buttons. The most important ones are RO (for Rotate) and MV (for move). With the object still highlighted,



click on RO and then hold down the left mouse button in one of the three plan views and move the mouse. The object will rotate: you can determine which way by clicking on one of the X, Y or Z buttons at the bottom of the screen.

If you want to keep to the new position, click on the OK button, otherwise click on CAN (for cancel). The other buttons will manipulate the rocket in other ways, SC will Scale it up and down, TW with Twist it, SH will Shear it - experiment to see what you can achieve.

Finally, use the 'Project' pull-down menu and select QuickRender. Click on OK and you'll see a preview of what your rocket will look like.



Stage and Project Editor

So far we've dealt only with the Detail Editor and used the QuickRender feature to see what our objects will look like. Now let's do some real rendering!

Quit the Detail Editor and go to the Project Editor. Now use the Project menu

to open a file named 'Project3'. This loads the Stage setting and other Project attributes, such as the number of frames to render. You should see something like pic 1.

Now go to the Stage Editor. This is where the objects which make up the scene are positioned. In this scene there are only three objects: an aeroplane, a light source and the camera. The camera is what 'sees' the objects and when you alter the position of the camera, you alter what the final render looks like.

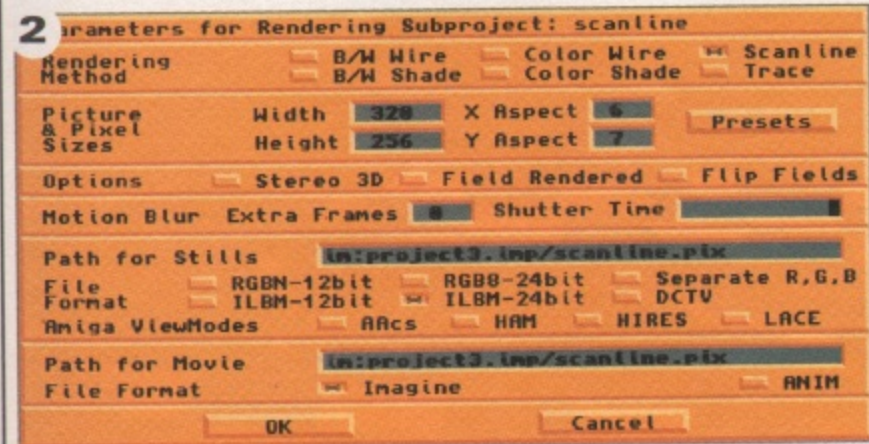
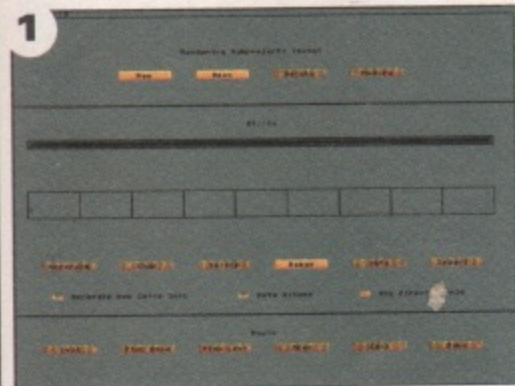
Your display will be slightly different, because by default the preview in the top right doesn't display the view as seen from the camera. To change this, go the Display pull-down menu, and make sure 'Camera View' is turned on. You might also want to change the setting from

Wireframe to Solid or Shaded in the same menu. In the Stage Editor you can alter the position of any object in a similar way to the Detail Editor. You cannot however alter the shape

or the attributes of the objects. To select an object, use Find requester. The easiest way to use this is to press Right-Amiga and F. Up pops a window listing all the objects in the scene. Select one, and then highlight it with F1. Now you can move it around, rotate it or scale it.

When you have finished, move to the Project Editor. If you have altered the positions of the plane, light or camera and want to keep these changes, you'll need to select the menu option 'Save Changes' from the Project menu first. Back in the Project Editor, you now need to define a render sub-project. Each project can be rendered in different ways such as wireframe, scanline or full trace. Either open the project named 'Scanline', or click on the 'New' button to create your own sub-project. You'll then need to pick a name for your sub-project and choose some settings, such as those in pic 2.

Now you can start rendering. You'll need to click on the number 1 to select the frame to rendering, and then click on Generate. You're frame will now be rendered. When it is finished, you can view it by clicking on the Show button.



Introducing Light Sources

How and where to place lights in an Imagine scene is very important. Without lights, nothing will be rendered and all you'll see is black. You can make dramatic changes to your scenes by placing your light sources in different locations. In the previous project, we used only one light source, but it's common to use two, three or even more. This project will demonstrate how important it is to use light sources carefully.

From the Project Editor, load the project file entitled 'Project4a'. If you go to the Stage Editor you'll see this consists of a face object, a camera and a light source. The light source and camera are right in front of the face, and this means light reaching the object casts no shadows. When you render the image, you'll see that the result is very flat.

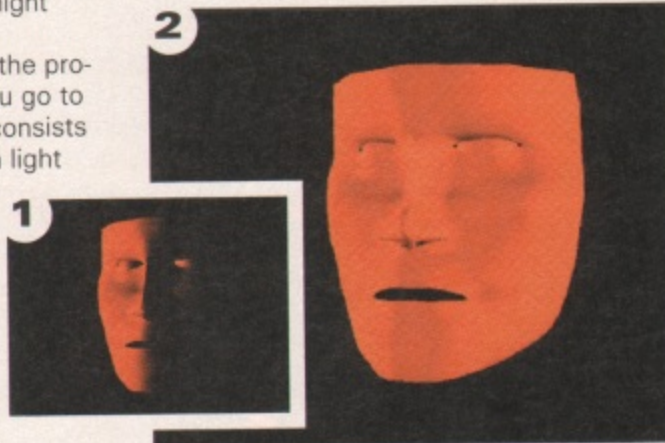
Now load Project4b. This time the light source is

moved to one side, and so is the camera. The final render of the face object is full of depth and shade, and looks far more dramatic. In fact, it's too dramatic for most situations. We need to strike a balance between this and being too flat as in pic 1.

Here is a solution, using two light sources instead of one. Project 3c is

more like a standard portrait photograph, with two light sources: one far away providing overall 'fill in' illumination, the other to one side to provide some shadow and detail. (pic 2)

Of course, there is no reason to stick to the rules! Project4d moves the light sources to somewhere which would be impossible in real life, for a creepy image.



Advanced Light Sources

Imagine can model light sources with varying degrees of accuracy. The default setting is more than adequate for illuminating a simple scene but sometimes you need a little more.

Although objects illuminated by Imagine's light sources exhibit shading effects, they don't cast shadows. In a large number of cases this approximation is fine: look at the faces we rendered for example. However, from time to time it is necessary to model shadows.

Imagine can do this by altering a characteristic of the light source. Whenever you create a light source in the Stage

Editor, it's possible to alter a setting to make the light create shadows. The reason this isn't the default is that rendering shadows takes a lot longer than normal rendering.

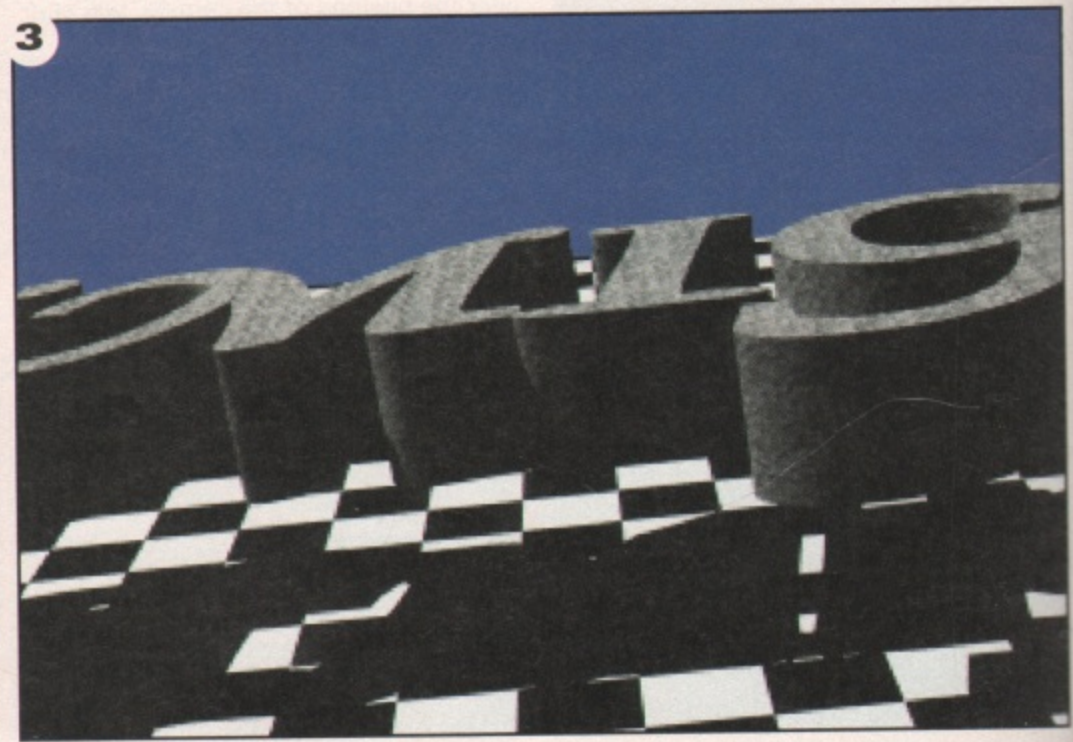
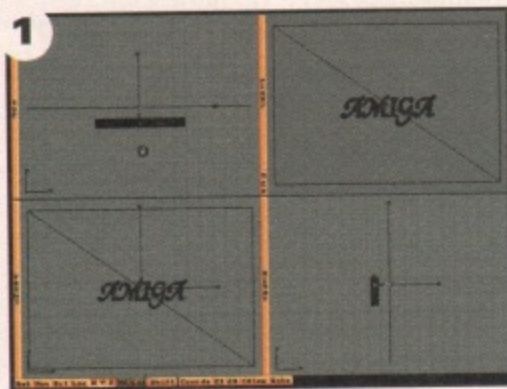
Load up Project5 to see this in action. If you visit the Stage Editor you'll see that there are four objects: a logo, a flat plane, a camera and the light source. This time the light source has its shadows switched on. (pic 1)

Return to the Project editor to rendering the image, and you'll see how it works. First of all, render the scene in Scanline mode. Although the logo is shaded, there are no shadows cast on the chequered plane. (pic 2)

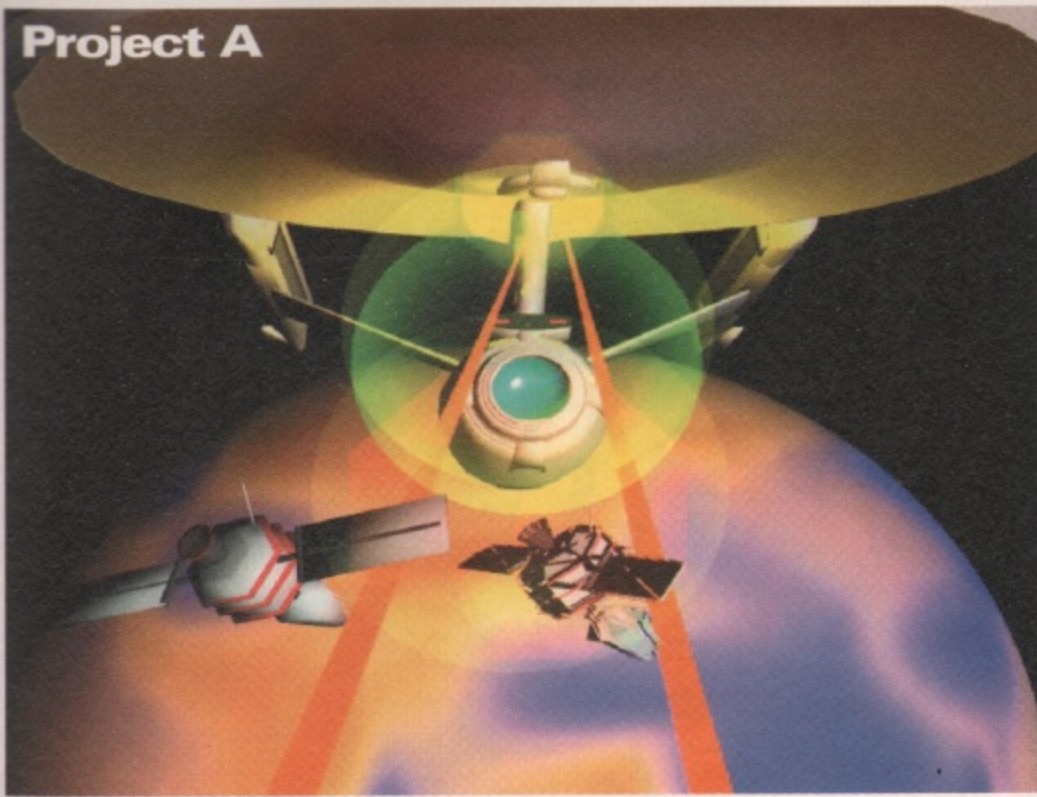
To see the shadows, we need to

render in full ray trace mode. Create or open a new sub-project and make sure the Trace mode is active. Now render the scene again. You might want to make yourself a cup of coffee, as this will take time. If this is taking too long, or your Amiga runs out of memory, return to the stage editor and delete the Logo object. Load something simpler in its place, such as the rocket ship. (pic 3)

Imagine has a few more tricks up its sleeve when it comes to light sources. Not only can you alter their colour and adjust how shadows are made, but it's possible to apply textures to them as well. This can give the appearance of a light shining through blinds or coloured glass for example.



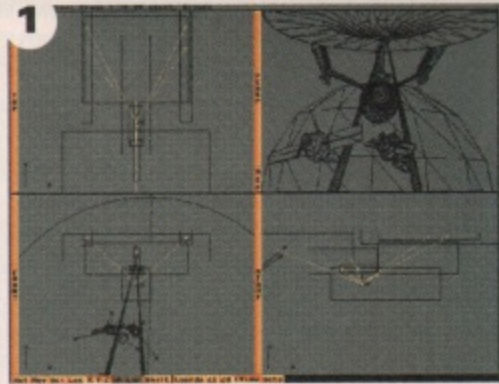
Project A



This is a scene with six main objects. Besides the camera and light source, there is a Starship, a planet, two alien spaceships (one exploding) and two phaser beams. You can see how all the objects are positioned from the Stage Editor display. Feel free to move the objects around and re-position

them to give different views. (pic 1)

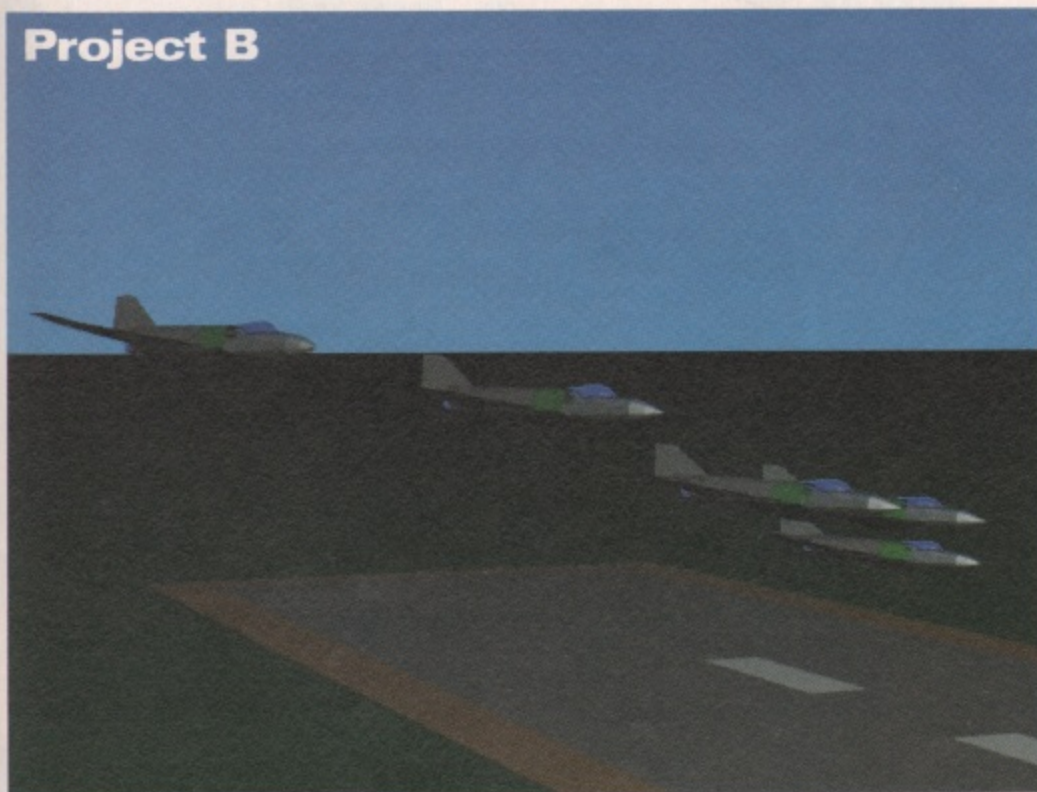
Key elements of the scene are the planet (a simple sphere given an Agate texture), the phaser beams (two semi-transparent cones) and the exploding ship. It's possible to apply the animation special effects to objects in the Detail Editor, as this is how the



alien ship was made to come apart. (pic 2)

The final image you see here was rendered in Trace mode, with a global "Lens Flare" applied. If you render the scene in Scanline mode, don't be surprised when the planet becomes a little less smooth.

Project B



Here's a nice simple scene which you can have lots of fun with. It's an air display, complete with jets and runway. You should be able to jump to the Stage Editor and position the planes exactly where you want them. By adapting the phaser beam from the earlier project, you should be able to create realistic smoke

trails too. There is only one plane object define, the others are all "cloned" from it in the Stage Editor. This saves on memory, and rendering time. (pic 1)

Each plane can be moved, scaled and rotated individually. If you want to move several at once, highlight one



(press F1) and then hold down the shift key and select others. You can then manipulate the planes in a block. (pic 2) The ground is a special Imagine object called, surprisingly, ground. This object extends in all directions, although appears like a simple grid in the Stage Editor.



NEVER FORGET!

WITH A SURF SQUIRREL OR CLASSIC SQUIRREL YOU CAN RUN UP TO

SEVEN

SCSI PERIPHERALS ON YOUR A1200

HiSoft
SYSTEMS
QUALITY
SOFTWARE & HARDWARE

IBrowse	£29.95
Net&Web	£39.95
Net&Web 2	£89.95
Termite	£39.95
TermiteTCP	£59.95
Twist 2 Database	£99.95
Cinema4D	£199.95
Disk Magic 2	£39.95
Maxon Magic	£29.95
Media Magic	£69.95
Upper Disk Tools	£14.95
HiSoft C++	£169.95
HiSoft C++ Lite	£79.95
Devpac 3	£79.95
HighSpeed Pascal	£99.95
HiSoft BASIC 2	£79.95
Gamesmith	£99.95
ProFlight Simulator	£19.95
Aura 8	£34.95
Aura 16	£99.95
Clarity 16	£149.95
ProMidi Interface	£24.95
Megalosound	£34.95
VideoMaster	£69.95
VideoMaster RGB	£109.95
VideoMaster AGA	£79.95
VideoMaster AGA RGB	£129.95
ColourMaster	£69.95

CD-ROM DRIVES

2X	£99.95
4X	£139.95
12X	£239.95

ONE MEGABYTE OF REMOVABLE STORAGE ON ONE CARTRIDGE
INCLUDES ZIP TOOLS SOFTWARE 20-50 WAY CONVERTER ONE FREE CARTRIDGE

ZIP

£159

NO HIDDEN EXTRAS

JAZ

ONE GIGABYTE OF REMOVABLE STORAGE ON ONE CARTRIDGE

£449

INTERNAL £389

SMD-100 VideoCD MPEG Decoder

£199.95

FREE VIDEOCD

Classic Squirrel £49
Surf Squirrel £79

When purchased at the same as any SCSI peripheral.
Normal prices: Classic Squirrel £69.95, Surf Squirrel £99.95.



POSTAGE £4, NEXT DAY £6
ALL MAJOR CREDIT CARDS ACCEPTED
E&OE
© 1996 HiSoft Systems
The Old School, Greenfield
Bedford MK45 5DE

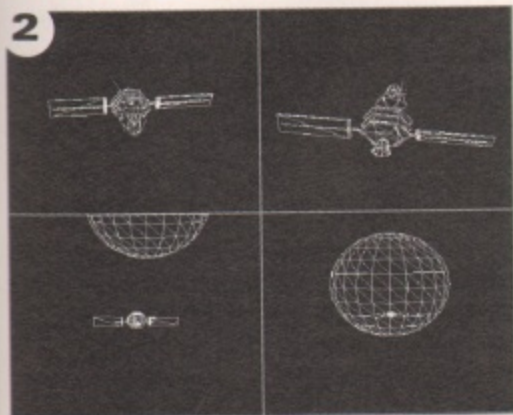
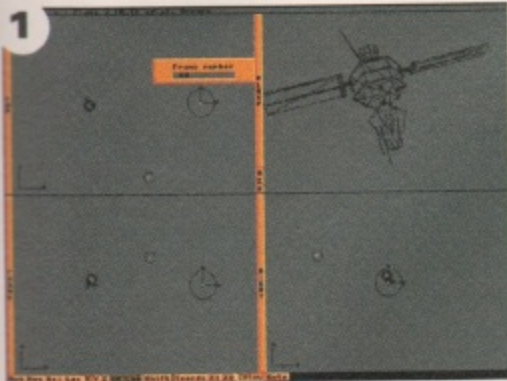
Fax 01525 713716 Email sales@hisoft.co.uk



PRIORITY ORDER HOTLINE
0500 223 660

Animation

Not only can Imagine create beautiful images, but it can render animations as well. To Imagine, an Animation is as easy to make as a still image: it's only a series



of images played back one after the other, after all. To create an animation you create and edit your objects in the Detail Editor as before. Then in the Stage Editor you position the objects on a frame-by-frame basis. If you like, Imagine will move objects automatically, so you only need to set the start and end positions.

You set the number of frames in the Action Editor. Load up Project6 and you'll see an animation project which has already been created.

If you go to the Stage Editor, you'll now need to specify which frame you wish to see: there are one hundred frames, so enter a number from 1 to 100. You can visit any other frame by pressing Right-Amiga C and entering the new number. (pic 1)

If you would like to preview how the animation will appear, use the pull-down menu on the far right of the screen called "Animate", and select the "Make" option. Imagine will create a wireframe preview which you can watch over and over using the "Play Once" and "Play



Loop" menu options. (pic 2)

When you are happy, you can return to the Project Editor. Load or create a sub-project, and select the frames you wish to render. The Range button is useful here, as it will allow you to select a large number of frames quickly. If you select ANIM format, you can load your finished animation project into Deluxe Paint or another other graphics program for playback or editing. If you are rendering a lengthy animation, it pays to create a Wireframe preview to make sure everything is in the right place. (pic 3)

Special Effects

Imagine comes with some built-in special effects to make your animations more exciting. It won't be long before you'll be able to create your own version of StarWars ...

So let's begin. The Action Editor hides a host of special effects which can be applied to your objects. The effects act over time, so for example, it's possible to make your rocket spin slowly from frames 1 to 100 of your animation. You add effects in the Action Editor. (pic 1)

Load Project 7 and you'll see that the animation we used in Project 6 has been updated. Not only does the spaceship rotate and planet spin, but the hapless ship suddenly explodes too.

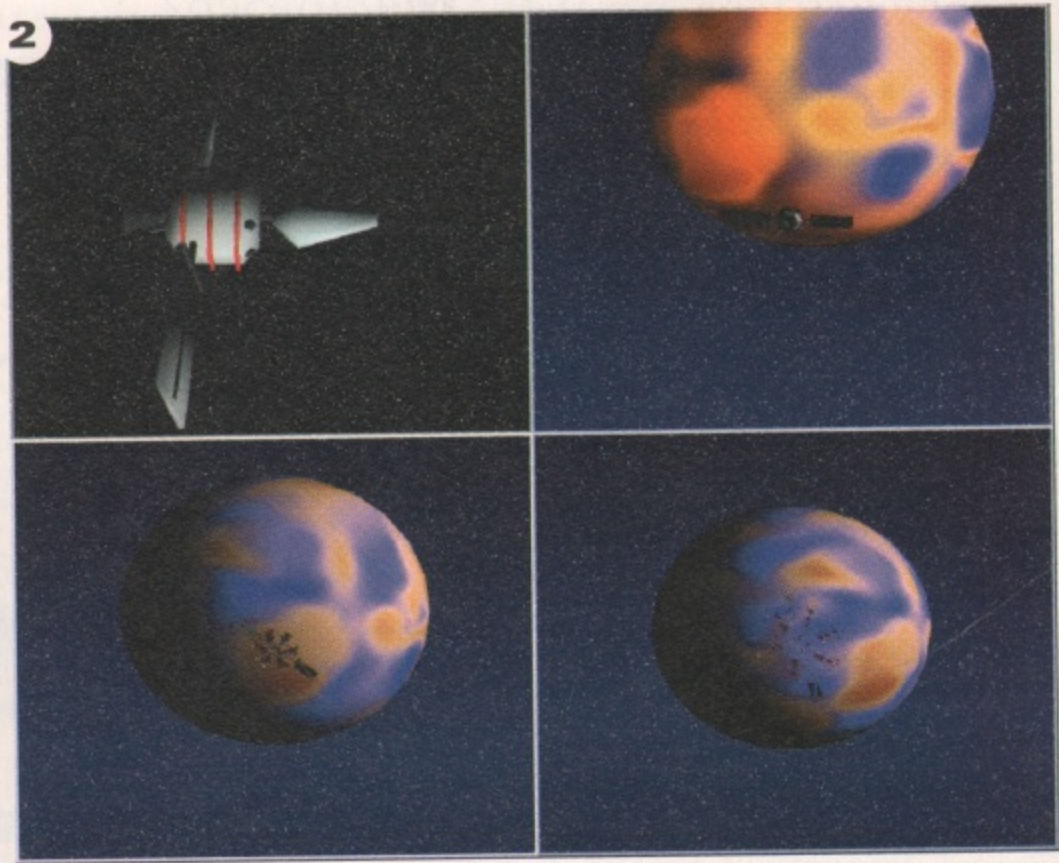
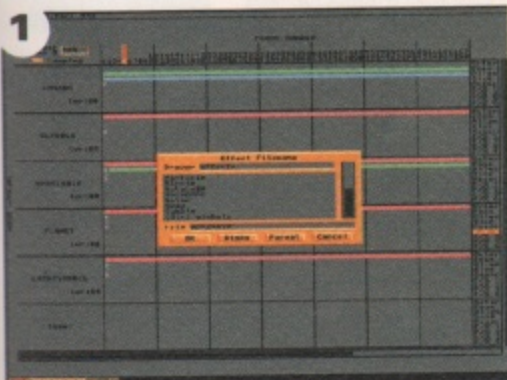
To do this, effects were added to the Action editor: one to the planet to make it rotate, and two to the spaceship: one to make it spin, and one to make it explode. A light source was also includ-

ed for a frame or two, to make a momentarily flash for the explosion. Here are some stills from the animation: (pic 2)

There are plenty of different effects for you to play with. As with textures, there are multiple settings for each one,

so there are thousands of variations to experiment with so have fun and a happy Christmas. If you still need help with Imagine 4 turn to page 78 now, where we are kicking off our tutorial series on this great package. ■

John Kennedy

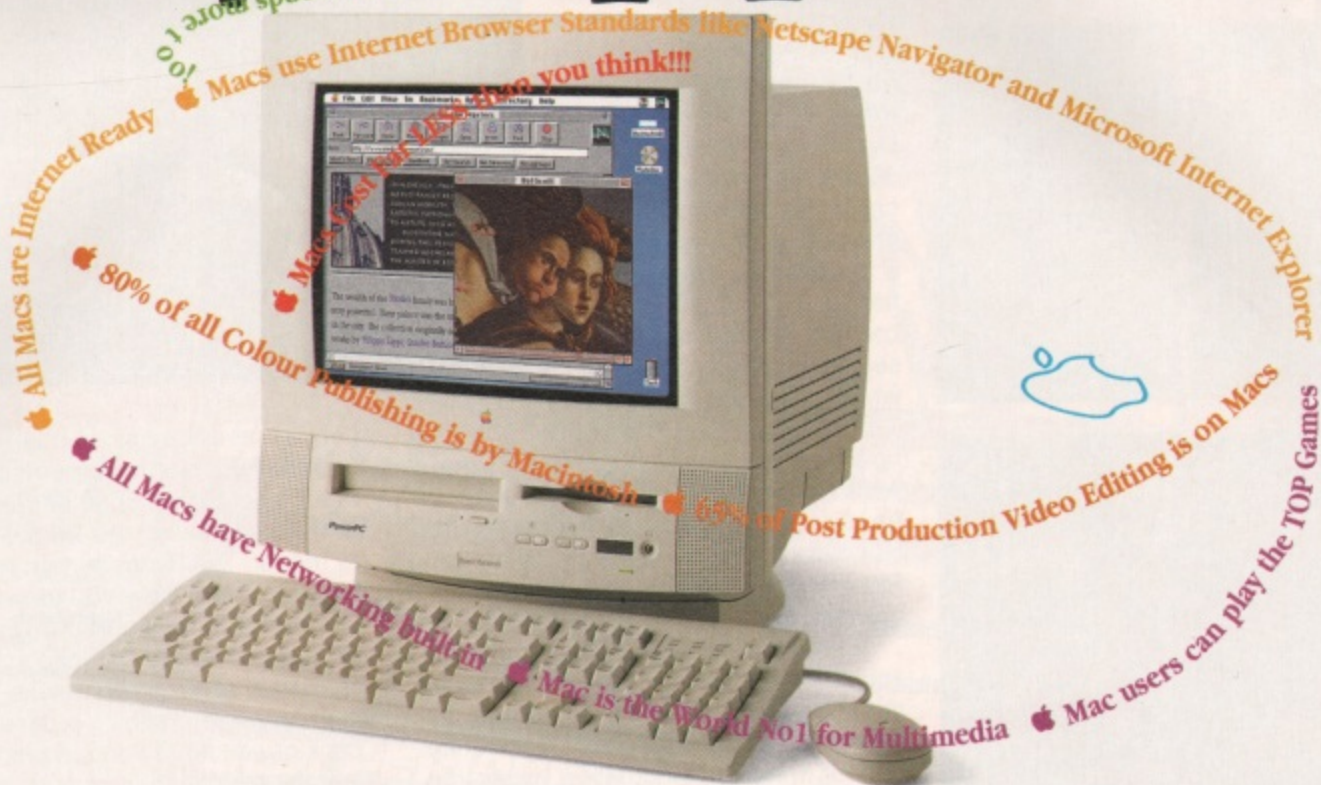


Why Apple?

Apple PowerPC Technology

Motorola RISC Processors

Over 1800 Mac software titles for PowerPC and thousands more to go



One day we may 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 two years since Commodore's demise, very little of substance has happened. We've seen prototypes and promises, but that's about it...

Only Apple can 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 previously so strong.

Perhaps some can wait for the final outcome, but if you need more performance, without paying the earth - and you need it today - there's one real alternative to consider now...

And, if you need to have 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.

Why Macintosh?

Performance:

All Macs are PowerPC based (except PowerBook 190s). Even entry level systems run at 100MHz or 120MHz, with 200MHz powerhouses and 180 MHz multi-processor systems at the top of the range.



Apple is the only mainstream computer company who has been able to make the transition from the older CISC (complex instruction set computing) processors to the newer and faster RISC (reduced instruction set computing) processor technology - whilst still retaining full backward compatibility with previous software. Remember 486, Pentium/Pro & 680X0 are merely CISC!

Software choice:

Over 1,800 native software packages (written specially for PowerPC Macs) have been shipped since Power Macintoshes were launched in 1994 - plus there are thousands of existing programs which can also be used. Industry standard programs such as Word, PageStream, Word Perfect, Page FileMaker Pro, Excel, Quark Xpress, Photoshop and many others have all been 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 (probably the one you're reading right now) are created on Macintosh.



The Internet & Communication:

- All Macs are Internet ready; many include a 28,800bps modem with full send/receive fax and answerphone management facilities.
- Industry standard web browsers, Netscape Navigator and Microsoft Internet Explorer, were developed for the Mac. Both give full access to all Web sites with new Internet page layout features like auto-tables and on-screen movies.
- The Internet's standard format for video files, called QuickTime (or QuickTime for Windows), was an Apple development. Of course it comes as standard with every Mac.



Connectivity & Expandability:

- All Macintoshes 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 (except Duos) - adding external drives, cartridge drives, scanners etc. really is Plug-and-Play.
- Low-cost digital cameras can be plugged into the Mac for instant real image input.
- Inexpensive industry standard PCI cards can be used in all Mac systems from the 5400 upwards.



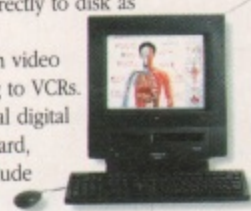
Education & Edutainment:

- Many quality Macintosh titles are widely available. Dorling Kindersley offer superb titles like The Ultimate Human Body and History of the World whilst Microsoft publish Encarta, Cinemania and Dinosaurs.
- Because Macintosh is the preferred system within many educational establishments, high quality software is assured.



Multimedia:

- Apple is the World's No. 1 Multimedia PC vendor.
- All desktop Macs have a fast CD-ROM drive as standard (portables get internal CD soon 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, others can be upgraded to include this facility with ease.



New 5400 'Black Mac' ideal for your home.

Recreation & Games:

- Top games like The Ultimate Doom, Myst, Rebel Assault II, Dark Forces, Descent, Afterlife, Lost Eden, Legend of Kyrandia, Full Throttle and The Dig have all been developed for Macintosh.



Output & Presentation:

- Connecting and using colour printers (from Epson, HP, Apple and others) to Macs is so easy and the results are truly outstanding.
- Many software packages are available offering image manipulation and superb photo quality output.



Interested?

All you need is 10% deposit then there's
NOTHING TO PAY until 1997!

5260 Performa

Powerful fully expandable Mac with a superb office suite included...

- 5260/100MHz with 12Mb RAM, Quad Speed CD, 800Mb Hard Drive, Built-in 14" Colour Monitor and Keyboard
- Normal Low GH Price **£1292**
- Special Student Price* **£1174**

***GH LIMITED STUDENT OFFER...**
FREE TV Tuner and £50 Voucher towards the cost of ANY StyleWriter Printer. (Strictly limited to students and staff of Higher and Further Education establishments)

FREE CLARIS WORKS 4 OFFICE SUITE...
Full Word Processor, Drawing, Painting, Spreadsheet, Database and COMMs Package



INCLUDES 14" MONITOR

5260/100 - 12/800 - CD

FROM £1174*

JUST £7.92 PER WEEK

6400 Creative Studio

The ideal Mac package for all creative types with software to help your talents...

- 6400/200MHz with 24Mb RAM, Eight Speed CD, 2.4Gb Hard Drive, TV Tuner, Teletext, Video-In/Video Compression Card and built in 28.8 Modem **£2699**



ADD YOUR IDEAL MONITOR & KEYBOARD

6400/200 - 24/2400 - CD

£2699

JUST £18.20 PER WEEK

- GET ALL THIS GREAT SOFTWARE...**
- CUBASE 4V • DABBLER • POWERGOO • AVID CINEMA • ADOBE PHOTODELUXE
 - ADOBE PAGEMILL • Mac OS 7.5.3 • HyperCard Player
 - Acrobat Reader • At Ease • Apple Video Player • Apple Telecom 3.0
 - Internet Connection Kit • Claris Works 4.0 • MacLink Plus
 - 120 Letters • Performa ClickArt • Thinkin' Things 3
 - Grolier Multimedia Encyclopaedia • PowerPete • Sammy's Science House
 - Disney - Aladdin Activity Centre • Disney - Lion King Story Book
 - Disney - Toy Story Preview • DK's The Ultimate Human Body
 - Full Throttle • Descart • The Best of European Soccer

FREE CLARIS WORKS 4

5400 Family Macintosh

- 5400/160MHz, 16Mb RAM, 8 Speed CD, 15" Monitor, 1.6Gb Hard Drive, 28.8 Modem **£1679**
- 'BLACK MAC' 5400/180MHz with 16Mb RAM, 8 Speed CD, 15" Monitor, 1.6Gb Hard Drive, TV Tuner, Teletext, Video-In/Video Compression Card and built in 28.8 Modem **£1996**



INCLUDES 15" BUILT IN COLOUR MONITOR

5400 - 16/1600 - CD

FROM £1679

JUST £11.31 PER WEEK

- GET ALL THIS GREAT SOFTWARE...**
- Mac OS 7.5.3 • HyperCard Player • Acrobat Reader
 - At Ease • Apple Video Player • Apple Telecom 3.0
 - Internet Connection Kit • Claris Works 4.0 • MacLink Plus
 - 120 Letters • Performa ClickArt • Thinkin' Things 3
 - Grolier Multimedia Encyclopaedia • PowerPete • Sammy's Science House
 - Disney - Aladdin Activity Centre • Disney - Lion King Story Book
 - Disney - Toy Story Preview • DK's The Ultimate Human Body
 - Full Throttle • Descart • The Best of European Soccer

FREE CLARIS WORKS 4

Monitors

ASK ABOUT MONITORS FROM SONY, MITSUBISHI, FORMAC etc.

There's a great choice of colour monitors to add to your Mac, here's just a few...

- GH 15" Multisync **£279**
- Apple 15" Multiscan **£316**
- Apple 15" AV Multiscan **£409**
- Apple 17" 1705 Multiscan **£604**
- Apple 17" 1710 TCO Multiscan **£774**
- Apple 17" 1710 AV Multiscan **£869**
- Apple 20" Multiscan II **£1469**

Printers

MORE PRINTERS... Ask for more details

- Apple StyleWriter 2500 Colour **£316**
- Epson Stylus 500 Colour **£259**
- Epson Stylus Pro A4 Colour **£389**
- Epson Stylus ProXL A3 Colour **£999**

Modems

- Apple Internet Connection Kit **£59**
- Global Village Teleport Gold 14.4 **£59**
- Motorola 3400 Pro V34 28.8 **£134**

Mac Software:

All the best programs are available for your Mac and cost less than you might expect. A very small selection is shown below...

MYST.....	£37	ENCARTA '97.....	£CALL
THE DIG.....	£36	GROLIERS ENCYC.....	£42
ABSOLUTE ZERO.....	£45	COREL DRAW SUITE...from	£116
ALONE IN THE DARK 3.....	£40	CLARIS WORKS 4.....	£111
DARK FORCES.....	£41	SOFTWINDOWS '95.....	£293

Mac Accessories:

It's easy to add peripherals to your Mac. Just look below and see what's available - it's all plug and play!

KEYBOARDS.....from	£47	MACALLY GAME PAD.....	£26
ZIP DRIVE - 100Mb.....	£147	MACALLY JOYSTICK.....	£38
1.2Gb. EXT. HARD DRIVE.....	£328	JETSTICK JOYSTICK.....	£45
WACOM ARTPAD II.....	£140	APPLE DESIGN SPEAKERS.....	£58
APPLE DOS CARDS...from	£575	1yr ON-SITE MAINTENANCE.....	£18

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 an £18 arrangement fee).
- Written details available on request.

Why Inexpensive?

Price/Performance:

- Today's fastest Macintoshes outperform the fastest Pentium Pro systems - by a considerable margin!
- Macintosh systems have a far lower cost of ownership than Windows systems.
- Macs are much cheaper than comparable Amigas!

Price Comparison:

Amiga System:	Price:	Macintosh System:	Price:
A1200 inc. 2Mb RAM	£350	Macintosh Performa 5400	Inc.
50MHz 68060 upgrade	£580	180MHz PowerPC 603e	Inc.
16Mb RAM	£119	16Mb RAM	Inc.
1.6Gb Hard Drive	£300	1.6Gb Hard Drive	Inc.
8 x Speed CD ROM drive	£259	8x Speed CD ROM drive	Inc.
14" Monitor	£286	15" Monitor & Keyboard	Inc.
28.8k Modem	£135	28.8 Modem/Fax/Answerphone	Inc.
TV Options	Not Available	TV 'Live in Window' on screen	Inc.
Video In/Quicktime	Not Available	Video In/Quicktime	Inc.
PCI Card Facility	Not Available	PCI Card Facility	Inc.
Total for Amiga System	£2029	Total for Mac System	£1996

Remember, the Amiga shown above is still only CSC based, and... if the comparison was for an A4000, the cost differential would be even greater!

Apple Loyalty:

Apple is the No.1 computer company worldwide with 87% of users purchasing other Macintosh systems. There are over 60,000,000 Macintosh users worldwide...

Isn't it time you became one?



Weekly finance prices are exc. VAT and are based on 3 year fixed cost
 Apple Commercial Credit for business users. Ask for full details.
 This advertisement was created entirely on Apple Macintosh equipment utilising a variety of standard software programs.
 The source of all factual information included here is available to view at Harwoods.
 All Trademarks are acknowledged. ESOE.

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.

Please send the coupon or phone us - we'll rush you your FREE 'Why Macintosh' brochure pack

Mr/Mrs/Miss/Ms: _____ Initial(s): _____ Surname: _____

Address: _____

County or Country: _____ Postcode: _____

Daytime Phone: _____ Evening Phone: _____

Main use(s) of computer: HOME BUSINESS EDUCATION

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 • email: harwood@applelink.apple.com

01773 836781



We accept most major Credit and Debit Cards and there is NO CREDIT CARD SURCHARGE!

GH GORDON HARWOOD COMPUTERS



WE'RE EASY TO FIND, SO WHY NOT COME TO OUR SHOWROOM AND SEE...
 Why Macintosh!
 PRICES INCLUDE VAT @ 17.5%



Visage

Computers

25 Bah Street,
Ilkeston,
Derbyshire
DE7 8AH



Tel: (0115) 9444500

Fax: (0115) 9444501



STORAGE

HARD DRIVES

WESTERN DIGITAL

635MB	CALL
850MB	CALL
1 GIG	£149.99
1.2 GIG	£179.99
1.6 GIG	£199.99

Seagate

635MB	£129.99
850MB	CALL
1 GIG	CALL
1.2 GIG	£164.99
2 GIG	£239.99

All 3.5" IDE Hard drives require an adaptor cable when fitted into an A600/1200 (£15.00 when purchased with a drive) £19.99 when purchased separately.

PRICE WATCH If you have found a cheaper price elsewhere in this magazine call us and we will do our best to beat it.

A500 ALFAPOWER

540MB	£214.99
850MB	CALL
1 GIG	£234.99
1.2 GIG	£254.99

Externally cased Hard drives for the A500/500+. Can be populated with upto 8MB of RAM. (72PIN SIMMS)

WAIT!

When you first receive your hard drive we think the last thing you want to do it to have to reformat it. All our drives are set up CORRECTLY. We can even configure the drive to your specifications
* Drives are formatted & installed with Workbench.
* OVER 150MB of top quality Public Domain software including:- Compugraphic fonts & clipart, Lightwave & Imagine objects, top demos & music modules, essential utilities, games and lots more

IBM / HITACHI 2.5" IDE

80MB	CALL	540MB	£139.99
170MB	£89.99	720MB	£169.99
256MB	CALL	1GIG	£279.99
340MB	CALL	1.2GIG	£349.99

Quantum

635MB	CALL
850MB	£129.99
1 GIG	CALL
1.2 GIG	£164.99
1.7 GIG	£199.99
2.5 GIG	£299.99

MEMORY

72pin 70NS		72pin 60NS	
4MB	£24.99	4MB	£24.99
8MB	£49.99	8MB	£49.99
16MB	£99.99	16MB	£99.99
32MB	£199.99	32MB	£199.99

Please call for the latest prices. As memory prices can change daily

A1200 RAM CARDS

A1200 0MB	£49.99
A1200 4MB	£74.99
A1200 8MB	£99.99

APOLLO ACCELERATORS

APOLLO 1240/1260

The new Apollo 1240 features a fan cooled super-fast 68040 running at 25MHz, in-built FPU, Battery-backed clock and 1 x 72 pin SIMM socket. Making it one of the best value accelerator cards available.

1240/25 0MB	£249.99	1260/50 0MB	£549.99
1240/25 4MB	£279.99	1260/50 4MB	£579.99
1240/25 8MB	£299.99	1260/50 8MB	£599.99
1240/25 16MB	£349.99	1260/50 16MB	£649.99
1240/25 32MB	£449.99	1260/50 32MB	£749.99

APOLLO 1230 LC

The 1230LC combines the best Price/Performance ratio for any Amiga 1200 accelerator. With a 68030/25MHz and 25MHz 68882 FPU, 1x 72 pin SIMM socket (1 or 4MB). Real-time battery backed clock.

1230LC 0MB	£99.99
1230LC 4MB	£124.99

APOLLO 4040

The new Apollo A4000 Accelerator fits in the CPU slot of the A4000 (A3000/T). Fully upgradeable to the Motorola 68060 CPU (Call for prices & availability). Comes in 33, 40 & 50MHz versions. 4 x 72 pin SIMM sockets (2 x 72 pin SIMM for A3000 Desktop) & SCSI-2 controller.

4040/40Mhz	£349.99
4060/50Mhz	£599.99

Also available:- APOLLO 2030 for A1500/A2000
APOLLO 620 for A600



Microvitec 1438 Multisync Monitor including cables and 25Watt speakers
£289.99

NEW Epsom Stylus 500 Colour Inkjet Printer. Prints 720dpi on standard paper
£289.99

CALL (0115) 9444500 OR (0115) 9444501
TO PLACE YOUR ORDER

HOW TO ORDER

BY POST: Please make cheques and Postal Orders payable to "Visage Computers" Please allow 5 Working days for cheques to clear

WE ACCEPT ALL MAJOR CREDIT CARDS INCLUDING SWITCH & VISA DELTA

BY PHONE: Credit/Debit card orders taken from 9.30am - 5.30pm Monday to Saturday

DELIVERY CHARGES
NEXT DAY - £6.99

Visage Special Offers

APOLLO 1240/25

£249.99

SUPER LOW
SPECIAL OFFER PRICES

1240-4MB....£279.99	1240-8MB....£299.99
1240-16MB....£349.99	1240-32MB....£429.99

SURF THE NET!

14,400 FAX/MODEM
£49.99

28,800 V34 FAX/MODEM
£129.99

INCLUDING CABLES & SOFTWARE

720MB 2.5" IDE HARD DRIVES

£169.99

INC CABLES, INSTRUCTIONS & SCREWS
LIMITED STOCKS.....HURRY!!!

MICROVITEC 14" 1402 MULTISYNC MONITOR
£269.99 INC CABLES

MICROVITEC 17" 1701 MULTISYNC MONITOR
£559.99 INC CABLES

CALL (0115) 9444500 OR (0115) 9444501 TO PLACE YOUR ORDER

S

er-fast
acked
e of the

- £549.99
- £579.99
- £599.99
- £649.99
- £749.99

1040
accelerator fits into
(A3000/T).
Motorola 68060
ability). Comes
is, 4 x 72 pin
SIMM for
controller.

- £349.99
- £599.99

2000

onitor
peakers

inkjet
rd paper

ERY
GES
/ - £6.95

rs

E

S

EWS

!

02

OR

S

01

OR

S

ORDER



Design for a

Computer Games

Are you mad about computer graphics? Fancy making a career out of it? It's a tough job but somebody's got to do it ...

Living

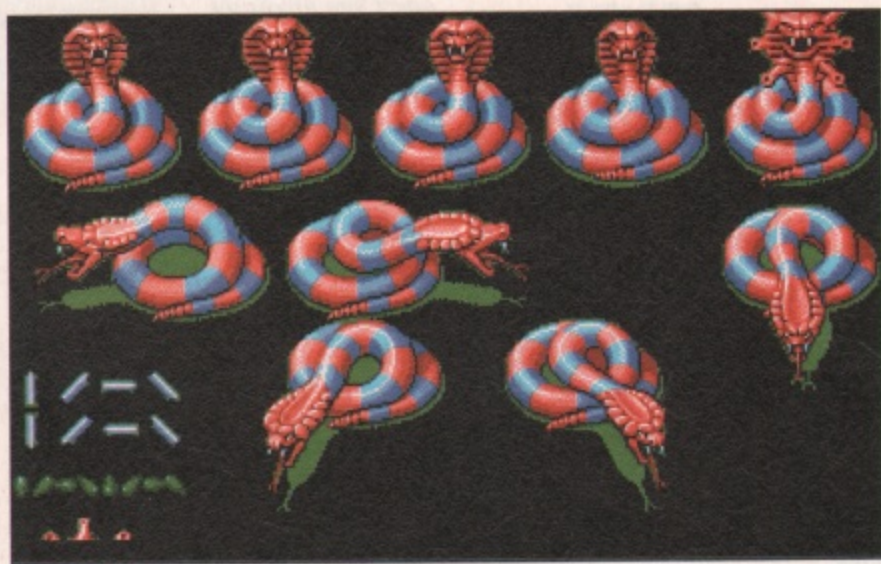
Wouldn't it be great if instead of the normal nine-to-five grind, you could spend all day designing cool graphics for a hot new computer game or rendering special effects and 3D animations for the movies? Dream on, you might think but there's a whole host of computer graphics industries out there full of people doing just that and if you've got the talent there's no reason why you shouldn't join them.

Like most of the more 'interesting' career paths, computer graphics isn't a job that you'll be offered at your local high street recruitment agency or job centre. Neither is it something you're likely to be steered towards by school and further education. No, if you want to break into this you'll have to

use the right side of your brain as much as the left. The good news is that you've already got the most important tool aside from your own talent: your Amiga. This

is an ideal platform from which to present yourself, learn the ropes and move seamlessly on to a variety of alternative graphics development systems.

In the first of a two-part feature we'll take a look at designing graphics for computer games. To get a true insider's perspective on the subject we spoke to Terry Cattrell of the Bitmap Brothers. The Bitmaps have just finished work on Chaos Engine 2 (reviewed in this issue) and have previously given us such Amiga classics as the Speedball and Xenon games, and are currently riding high on the success of their console and PC game Z.

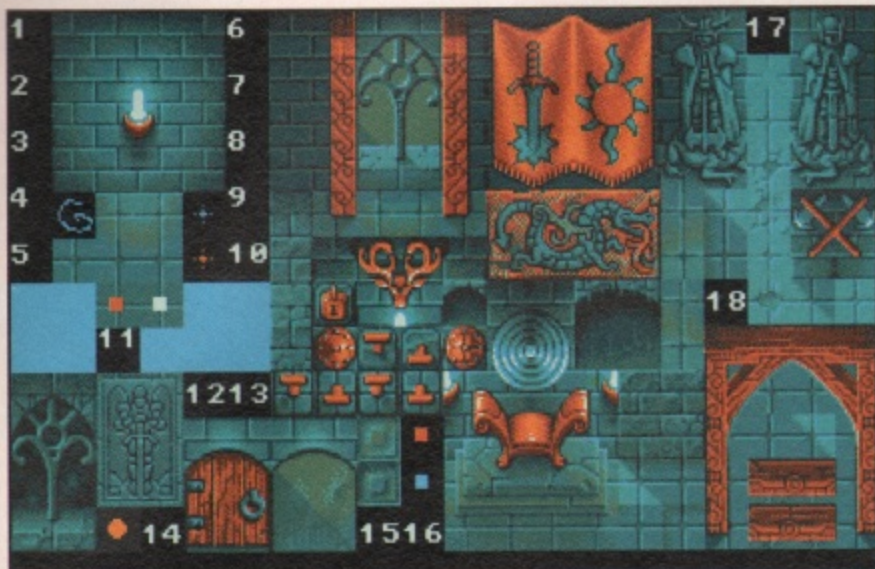


▲ 2D sprite-based games are still popular on the Amiga, although in general they look to be on the way out. However, basic graphics and animation skills can still be demonstrated with simple sprites.

CU: You're a highly successful computer graphic artist. How did you get into it?

TC: When I was about 17 I was playing about with my Amiga and DPaint, as everyone did. I was going to art colleges but I wasn't really enjoying it. The girlfriend





▲ Above: some of the backdrop blocks from Chaos Engine 2. Scrolling backgrounds are normally made up from these in order to save memory and keep the speed to a playable level.



with sent off a disk with artwork I'd done, and to nest it was pretty poor, but a company called Arc Developments [Forgotten Worlds, R-Type 2] took me on. Looking back the stuff was pretty ropey but they took me on from there. I was just going through a list of developers alphabetically. Arc happened to be first - I suppose Bullfrog would have been next!

moment. 3D is the important thing to show that you can do. If you want to get into the games industry you have to know 3D. There are people in the games industry who don't know 3D and they're either being taught it or basically they're leaving the industry. If you can do 'low polygon' 3D work then you're in with a good shout.

If you want to get into the games industry you have to know 3D

CU: 'Low polygon': can you explain?

CU: Would that be a good way to break into it now?

TC: Yes. It's the only way. There's agencies set up but we don't use them because a) we have to pay them and b) they take a percentage of the person's wages.

CU: What types of graphics skills are currently in demand from game developers?

TC: 3D is very big at the

TC: Say you were doing a character, a human, I wouldn't want to see any more than 250-300 polygons if it was to work in realtime on the hardware that's currently available. You couldn't use any more than that. You want to be able to texture map very well. That's not bump mapping, that's just straight texture mapping.

It's best if you can show that you've got a knowledge of games. When I sent my disk out I sent map blocks, which at the

Pretty polygon

'Low polygon' is a term you'll become familiar with if you get a foothold in the PC or console games business. It refers to the economical but creative use of polygons to create an impressive 3D object which is simple enough to be moved around the screen at speed in realtime. If the models are too complex, the game will slow down or other sacrifices will have to be made to compensate, which will inevitably lead to compromises in the gameplay.

An artist with particularly refined 'low polygon' skills would be an asset to any developer working on 3D games, so it's a skill well worth acquiring. This picture shows Mario in his new Nintendo 64 incarnation. As 3D models go, his is quite detailed, although there is a trade off with the absence of any texture maps. The secret is to simplify the object as far as possible and make every polygon count. Good animation can do wonders for bringing a simple character like this to life. Traditional animation techniques can be transferred from 2D cell animation to 3D models with a bit of thought.

This will not be a familiar practice to many Amiga 3D artists, as realtime rendering has never been much of a reality. However, Imagine 4 from this issue has all you need to give it a try. Once you've mastered static low polygon models you can start animating them. Your finished work can then be output to standard video tape for submission to your chosen game developers.



time were right - everything was bitmapped, everything was 2D and that's what got me into the industry, because I had a fundamental knowledge of the way computer games worked.

CU: How about traditional sprite-based artists - are they still in demand?

TC: There's enough people left over from the 16-bit generation to cover all that work. I can't see anybody taking anyone on just because they're a bitmap artist. There's not enough bitmap games to go round. Having said that, you can show that you know how to make something move realistically using 2D sprites but you won't make a career out of 2D anymore, not in this industry.

CU: What about experience of specific software or hardware - will a developer require an artist to have used a particular industry standard system?

TC: Imagine has all the

fundamentals like texture mapping, bump mapping, sophisticated modelling tools, everything you need. As soon as you know the principals you can apply them to any tools. Games is a very specialist area. It's difficult to take on traditional artists, say someone who is used to using Photoshop with 24-bit colour high resolution, it's useless to us because we're working with 256 colours, 320 x 200.

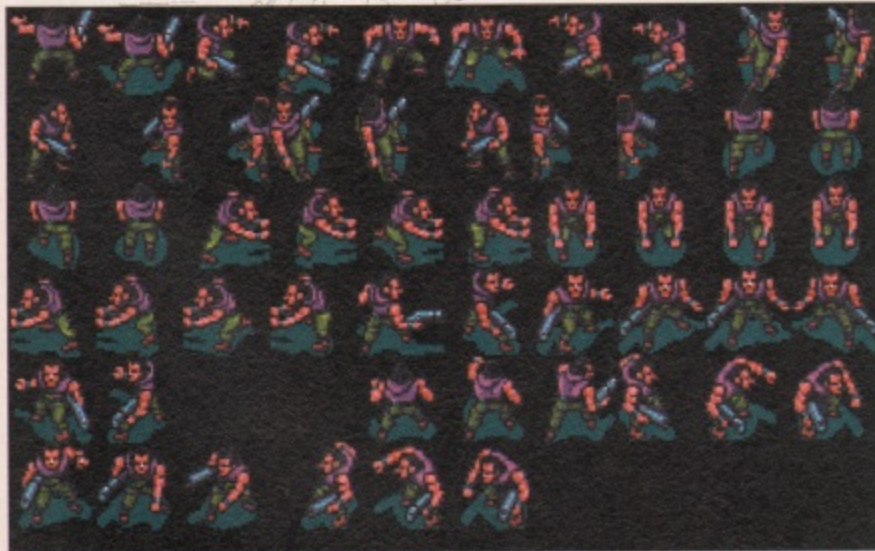
CU: Are there any industry standard systems at all?

TC: 3D Studio on the PC and Mac. It's cheap and it's got all the tools you need for a game. Alternatively LightWave on the Amiga.

CU: Are there different departments and specialists within your graphics team, or is everyone expected to be able to do a variety of graphics jobs?

TC: We're fairly compartmentalised here. We have Colin

... get your work seen by as many potential employers as possible



▲ More from the Chaos Engine 2, this time it's a character sprite bank. Notice tricks like the shadows being incorporated into the sprites to avoid having to render a shadow onto the background.



▲ Economical but artistic texture mapping skills are required for many of today's 3D games. Combining very simple polygon-based objects with cleverly designed texture maps allows for fast, good looking 3D games.

who's a really good animator, Doug who's good with models and textures and I kind of bridge the gap between them.

CU: What about qualifications - is a string of A levels and degrees going to help?

TC: *Qualifications really don't exist for the computer games industry. I don't know an art teacher that would be able to teach you how to design a sprite. I certainly don't know one that would know anything about polygons. When I'm looking at stuff, it's the pictures I see - I certainly haven't got a qualification. The images are all important. You can learn so much more actually doing what you're supposed to be doing. You're in at the deep end.*

CU: Once you've got some examples of your work prepared, what's the best way to present them to a potential employer?

TC: *We much prefer to get a video tape. It shows they've got access to the equipment to do that kind of thing, it also shows they know what they're talking about. We just put an ad out recently and when we came in there was a pile of applications. The videos came first, the disks had to wait until I'd had my lunch and a cup of coffee! Make it as easy to see your stuff as possible.*

So, there you have it. The main thing to do is get your work seen by as many potential employers

as possible. Don't expect many responses, especially if you're sending out graphics on spec. You might get lucky with your first efforts but it's likely you'll need to keep submitting new examples to all your favourite developers over a period of time before something comes up. If you're known as "that guy who sends us graphics every fortnight", when a vacancy does arise you'll be one of the first they'll contact, so long as your graphics are good enough of course. Remember to keep your presentations neat and to the point. Make everything as easy to view as possible - that means no obscure picture formats or archives.

Remember the people you are applying to will generally be very busy just doing their job, so don't give them excuses to throw your work straight out of the envelope and into the bin!

The Bitmap Brothers are currently fully staffed up and are not looking for any new artists, so please don't bombard them with job applications!

If you've got the talent combined with the determination to get into the industry, persistence will eventually pay dividends. Let us know when you hit the big time! ■

Tony Horgan



Qualifications really don't exist for the computer games industry

NEW!!!

...DrawStudio will provide a whole new creative avenue when it comes to illustration... Tony Horgan (CU Amiga Editor) Review, Verdict 89%

drawSTUDIO

written by Andy & Graham Dean

Illustration by Artworks (01469 588 138)

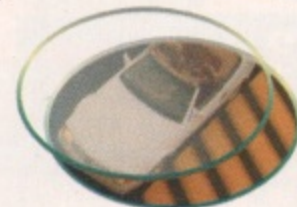


- ◆ Illustration
- ◆ Video Graphics
- ◆ Desktop Publishing
- ◆ WEB page graphics
- ◆ Multimedia Images

Be creative! It's so easy with drawSTUDIO



...warp, distort, fill and transform objects!



soft shadows

All images on this page were created in DrawStudio



... transparent fills, tileable fills, bitmap fills, soft edges



pattens

... transparent fills & editable patterns!!!

Still Unsure? Order a FREE demo today and try out the hottest program on the Amiga!!!

WEB PAGE! <http://www.ajdean.demon.co.uk/studio/ds.html>

PRICES: DrawStudio Floppy Disk Pack £59.95 plus P&P

System Req. 68020, WB 2.04 +, 3Mb Free memory, Hard Drive, MUI (Supplied)

DrawStudio CD Studio Pk £74.95 plus P&P includes ImageStudio and TextureStudio plus lots more...

UK Postage = £5, Europe = £6, Rest of world £9.

GERMAN DISTRIBUTOR: HAAGE & PARTNER - TEL: +49 (0) 60 07 93 00 50

44 (0) 1908 370 230

To order, telephone number above (UK customers, leave off the 44).

LH Publishing, 13 Gairloch Ave, Bletchley MK2 3DH, United Kingdom, Fax: +44 (0)1908 640 371 Email: larry@em.powernet.co.uk

Order by Cheque, Credit card, Switch, Postal Order, Cash



SHOW YOUR SUPPORT FOR THE AMIGA AND BUY A COPY TODAY!

It's Time for a Change of Gear

Cinema4D Ver 3

Cinema4D 3 is a major upgrade to this easy-to-use and extremely powerful graphics package - the changes increase the functionality and speed of the package to an extremely high level, while the price remains truly affordable.

Some of the features of Cinema4D version 3 are:

- The major internal workings of Cinema4D have been optimised resulting in a substantial increase in speed - many raytracing operations are now up to 30 times faster than before.
- The package has support for many new output file formats including Windows BMP, TIFF and JPEG.
- Lens flares are implemented; this is like looking at a bright light source through a camera which creates realistic camera special effects. The lens flare is actually a light source in itself which allows some great-looking effects to be achieved. A simple lens flare preview is available.
- There are many other light source additions and additional effects such as lens glows, lens reflections, effects at margins and randomising of rays.
- Additional CyberGraphX support - now allows full 24-bit colour rendering.
- Extended user interface.
- Cinema4D requires 3Mb RAM, OS2.x, a hard drive and is fully multi-tasking and extremely configurable.

Upgrade from Version 2 Only £39.95!

£199

MediaMagic

MediaMagic is a superb new product for designing and playing quality presentations on your Amiga, at the right price.

- MediaMagic sports an interactive, user-friendly and intuitive interface so that building presentations becomes a joy. Fully compatible with graphic cards.
- The MediaMagic editor uses drag-and-drop for easy, hierarchical positioning of objects and allows the editing of several scripts at once.
- You can use all sorts of graphic images in your masterpiece with MediaMagic's support for all IFF-ILBM data formats, including ILBM-24, which are converted to HAM6 or HAM8 automatically.
- You can incorporate a wide variety of music & voice samples to liven up your presentation: MediaMagic supports common music modules such as Sound-, Pro-Noisetracker as well as Octamed and Octamed Pro (8 voice) & 8SVX files.
- Working with animations is easy with MediaMagic's support for IFF animations in Anim5, Anim7 and Anim8 formats.
- Business charts can be created directly in the program.
- OS 2.x and OS 3.x compatible, simple controls, fully multitasking.
- Requires 2Mb RAM, OS2.x up and hard disk recommended.

£69⁹⁵

DiskMagic 2

DiskMagic is the friendliest file manager on the Amiga and now version 2 takes this fine product to new heights of useability and functionality - probably the easiest-to-use and most versatile file management utility on the Amiga. Here's some of the things that you can expect:

- Support for LZX archive format, the new standard in Amiga compression.
- Many new functions including: super-fast delete command, extra filetype options, additional AREXX commands and internal functions.
- New output window preference.
- File encryption.

DiskMagic 2 comes complete with a library of icons for gadgets and a comprehensive user manual.

£39⁹⁵
Upgrade
£12.95

HiSoft C++

At long last there is a new, and extremely powerful, C compiler for the Amiga, at the right price. HiSoft C++ has two versions, Developer and Lite; here's a brief list of features:

- The Compiler compiles at high speed in line with the AT&T 3.0 C++ standard, is AREXX controllable, integrates seamlessly with the editor, includes a project manager and generates code for 68000-68030 and the 68881/2 FPU. CLI version included.
- The Editor uses multi-windows, is syntax-sensitive, handles as many files as you like, includes an AREXX interface and supports full keyboard shortcuts.
- The C/C++ Debugger (Developer only) uses multi-windows, with drag-and-drop technology, allows breakpoints, variable tracking and much more.
- The Devpac 3 Assembler is included for low-level work.
- The Easy Object Library (Developer only) is included which eases resource handling and use of data structures (lists, large arrays etc.), along with BOOPSI support, error handling with exceptions and online documentation.
- The Hot Help (Developer only) system can be activated at any time and gives you full, expandable online help even with an AREXX port.

HiSoft C++ requires 4Mb RAM, OS2.x up and a hard disk.

£79⁹⁵
Lite
Version

£169
Developer
Version

SMD-100

The SMD-100 is a brilliant new concept for home entertainment. Using your existing SCSI CD-ROM, you can now access the world of Digital Video - superb 24-bit quality video with crystal-clear 16-bit sound. Here's what you can do with the SMD-100:

- Play any VideoCD or CD-i Movie through your Amiga monitor or through your home TV set.
- Use the supplied remote control to skip tracks instantly, to view your favourite scenes in silky-smooth slow motion, to grab a frame with the rock-solid pause facility and move speedily through the film with the fast forward and rewind functions.
- Use the SMD-100 as part of your Amiga SCSI chain or take it, along with your CD drive, next to your normal television, for all-the-family viewing.

There are many hundreds of VideoCD titles available, all featured in our 20-page, full-colour catalogue. The SMD-100 VideoCD/MPEG player - a command performance, time after time, after time.

To Order

0500 223660

Punch those keys for free!

To order any of the products on this page, or any other HiSoft product for the Amiga (and we have over 40 titles for your computer!) just Freecall 0500 223660 armed with your credit or debit card. Postage is normally £2 - £4 within the UK or £6 for a guaranteed next day service (for goods in stock). Alternatively you can write to us or order through our web page. © HiSoft 1996.

HiSoft
SYSTEMS

The Old School, Greenfield
Bedford MK45 5DE UK
Tel: +44 (0) 1525 718181
Fax: +44 (0) 1525 713716
email: sales@hisoft.co.uk
web page: www.hisoft.co.uk

Hot News

TermiteTCP now
£39.95!

IBrowse 1.2
Released!

CD-ROM Prices
Slashed!

Phone, write or email
for more detail

£199
inc Free
VideoCD



I'm delighted to see 1996 out with some fine game reviews.

Chaos Engine 2, for one, was well worth the wait. And Andy Braybrook drops in as well. It's all too much!

Interview

43 Andy Braybrook speaks

Previews

32 Minskies Furballs

32 Gun Fury

33 Euro League Manager

Reviews

36 Chaos Engine 2

38 Sensi World of Soccer 96-97

41 Fighting Spirit

Tips & Guides

44 Snip Tips

45 Vampyra



The Chaos Engine 2 36



Gun Fury 32



Minskies Furballs 32



Sensi World of Soccer 96/97 38



Fighting Spirit 41

SCREEN SCENE

Minskies Furballs



■ DFR: December ■ Publisher: Guildhall Leisure

☎ 01302 890 000

I know that it's good form to reserve printing any final judgement on a game until it is fully finished but we can't help it. This game is brilliant. Lisa is obsessed by it, she's been spending hours in front of her screen desperately trying to get all the little coloured cats linked up in

blocks of four or more. Think of Tetris, think of Kirby's Avalanche on the SNES and you've got Minskies Furballs.

The aim of the game is simple, you've got to line up four or more cats of the same colour and they will explode. The more you get to link up and explode the more objects your opponent is sent to destroy. It's fab and we can't wait

to get the full version into the office. Binary Emotions, the behind the game, brought peris Legacy earlier this r so CU Amiga Magazine a keen to find out more about this latest venture. We caught up with Ian Jolly, Binary's Project Design Co-ordinator to find out more.

CU: How did you come up with the title, Minskies Furballs?

Ian Jolly: "Originally, it all began when we put together comic style, pocket books which featured all the cartoony characters from both Speris and Minskies.

CU: Why did you choose a game like Tetris to emulate?

Ian Jolly: "We always wanted to do some of the most classic games of all time particularly because we think the Amiga is

best suited for this. That's why we did Speris, because of Zelda naturally. With Minskies the whole game revolves around the original Tetris of course, but we're happy that it already has very good playability and that our version is very unusual (which is a good thing in these days). It's more of a hybrid of a great ageing classic. This time, rather than bricks, the cats provide the key to multiple connections."

CU: What should we expect to see in the finished version?

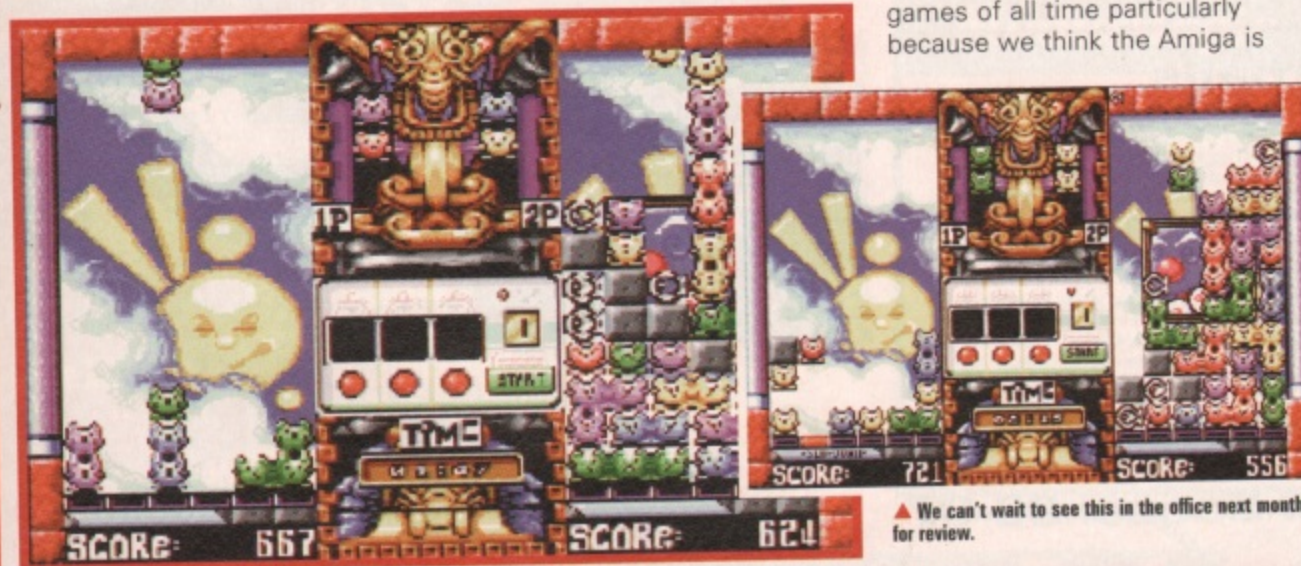
Ian Jolly: "In the full version, we will have approximately 11 levels, 11 characters, a two-player option, a range of assorted weapons, a fruit machine, championship modes, a ray-traced intro, end sequence, six stereo soundtracks ranging from ambient to techno and lots of crazy sampled speech for each character".

CU: Didn't you hint at the possibility of a multiplayer four player link up?

Ian Jolly: "Yeah, if isn't already included on the game's release, then we'll offer it as a free patch to registered owners."

Minskies Furballs should be available for both AGA and ECS machines. Watch out for the review next month. ■

Mark Forbes



▲ We can't wait to see this in the office next month for review.

Gun Fury

■ DFR: December ■ Publisher: Guildhall Leisure

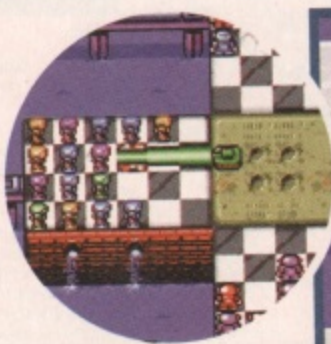
☎ 01302 890 000

Remember Vision Software from New Zealand? They did the marvellous overhead chopper shoot 'em up Seek and Destroy and a great PD version of Defender. They also did quite an unusual shareware game called Microbes. Binary Emotions have borrowed a bit from this latter game and have come up with Gun Fury the 'thinking man's shoot 'em up'.

Gun Fury is set to be more than just a puzzle game but a progressive shoot 'em up that just gets faster and faster as you go on. In Gun Fury the action

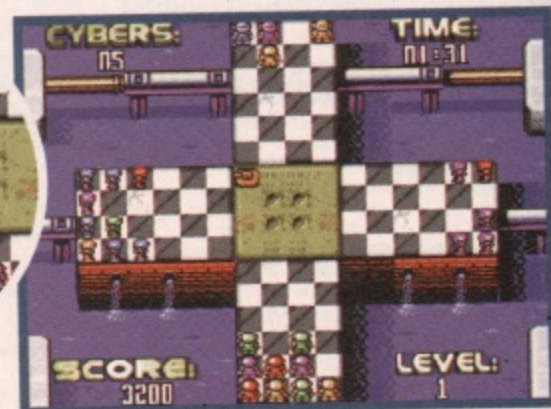
begins with the player controlling a tank in an area in the centre of the screen. This tank must protect itself from an oncoming onslaught of marauding aliens. It's not all just about shooting things though, because each of the aliens are coloured green, red, purple, yellow or blue as all have their own colour and when you shoot either one of them your tank becomes the colour of the last one, enabling you to shoot it and so on. I know it sounds confusing but believe me when you play it for the first time it's so easy to get into.

In the playable demo there



was only several small levels to play, but the full version promises 30 at least. There are weapons for both the tank and the aliens, in fact the full game will allow the enemies to hold special guns which Binary Emotions say will perform a multitude of crazy things.

Gun Fury looks great at this stage. The player's tank is fully rendered, including the enemies which behave in realistic 3D with nice music and some neat speech effects. It has been in



development for well over a year and a half and when finished should work on all Amigas with 1Mb. There is also a possibility of a CD version.

Even more interesting is that Binary Emotions is convinced that Gun Fury is so good that they are working on a sequel already! We'll have to wait and see what it's like in action next month. ■

Mark Forbes

Euro League Manager



DFR: December Publisher: Manyk

0181 542 2687

Are Manyk treading on dangerous ground or making a shrewd business move? With Champ Manager 2 "almost upon us" (we've been hearing that one for a few months now!) is it wise for a company who brought us the Doom clone Fears to be venturing into football management simulations? I think it is.

Firstly, I'm beginning to doubt if we're ever going to see Champ Manager 2. I mean, just how long does it take to put a game together? Maybe we'll never see Manyk's Euro League Manager either but it's more likely to appear than CM2 as the copy we received was almost finished.

Also, historically, you can't go wrong with a football management game if you're a software company. Or so it seems. Even the less polished ones sell extremely well and hang around the charts much longer than other more deserving (in my opinion) titles. Perhaps this is why Manyk have decided to diversify and produce a footy management game. Either way, without delving into the psychological reasoning behind it, they're sure to do well with a



footy management game. And as it's due out just before Christmas Champ Manager 2 fans might get fed up waiting for CM2 and opt for this game instead.

Euro League is carved out of the standard football management game tree. All the familiar options are there such as team selection, player statistics, ground enhancement facilities as well as your friendly banker, coach and scout. And if you don't want to go the whole hog there's a part exchange option where you can buy/sell a new player as well as a cash deal.

The choice of leagues will include an English, Italian, French and a 'special' Euro fantasy league. The version we saw was easy to get around and I appreciated the option to speed up the matches. We should have a review next month (I doubt I can say the same for CM2). ■

Lisa Collins



AMIGA REPAIRS

FIXED PRICE ONLY £42.99 Incl. (A500+, A600 and CD32 ONLY)

- * Price includes PART, LABOUR, DELIVERY & VAT
- * 90 Day warranty on all repairs
- * 24 Hour turn-around on most repairs
- * All upgrades purchased from us fitted free with repair
- * Includes FULL DIAGNOSTICS, SERVICE & SOAK test
- * If drive or keyboard need replacing add £10.00

EST. 14 YEARS

AMIGA A1200 Repairs only £52.99 Fully inclusive

SPECIAL OFFERS

- PC Keyboard adaptor (allows you to use a PC Keyboard) Price only £25.00
Available for A500+/A600 A1200 A3000 A4000 and CD32
- PC Keyboards (Cherry/Chicony) £16.00
- CD32 Power Supply £25.00
- CD32 Rom Drive £35.00
- A500 Motherboard v6A £59.00
- Fully populated (KS205)
- A500 Internal Drive £29.95
- A600/1200 Internal Drive £35.95

A500 Internal Drive £29.95		A600/1200 Internal Drive £35.95	
CHIPS	PRICE	CHIPS	PRICE
8372A 1Meg Agnus	24.30	68000 CPU	8.50
8375 2Meg Agnus	24.30	Video DAC (A1200)	19.50
8374 Alice (A1200)	32.70	Kickstart 1.2	4.20
8362 Denise (A500)	9.60	Kickstart 1.3	16.80
8373 Super Denise	18.40	Kickstart 2.04	22.40
5719 Gary	7.60	Kickstart 2.05	19.90
8520 CIA (A500/+)	12.00	Kickstart 3.1 (A500)	58.00
8520 CIA (A600/1200)	12.00	Rom Sharer	15.00
8364 Paula (A500/+)	12.34	NEW Modulators	29.50
8364 Paula (PLCC)	16.70	Xchange Modulators	18.00
		CD32 ROM DRIVE	35.00
		A500 Motherboard 6A	59.00

A500 Keyboard 38.00		A600 Keyboard 29.00	
A1200 Keyboard 34.00		A500/600/1200 PSU 28.50	
CD-32 PSU 28.50		A2000/A3000 PSU 65.00	
2.5 HARD DRIVES P.O.A.		WE CAN SUPPLY AMIGA 500/600/1200 SPARE PART AND KEEP A FULL STOCK	

Add £1.50 P&P on chips, £3.00 P&P on drives & PSUs We reserve the right to refuse repairs

***** ATTENTION ALL DEALERS *****
Our Company offer the most competitive dealer repair service on all home computers. Credit facility available. SEND FOR FREE INFORMATION PACK TODAY.

Service HOTLINE (0116) 247 0059 FAX (0116) 2558643
DART Computer Services (CS) 106 London Road LEICESTER LE2 0PF
DART Computer Services
The Guild of Master Craftsmen A Division of D.A. Computers Ltd.

LOWEST PRICED TOP QUALITY RIBBONS, INKJETS, TONERS & DISKS

Printer Ribbons

BLACK	1off	2+	5+	10+	BLACK	1off	2+	5+	10+
Anstrad DMP 2000/3000	2.80	2.65	2.45	2.25	Panasonic KXP 1123/1124/1140	3.46	3.31	3.11	2.91
Anstrad DMP 4000	3.66	3.51	3.31	3.11	Panasonic KXP 1080/1180/90/1592	2.89	2.74	2.54	2.34
Anstrad PCW8256/8512/LQ3500	2.85	2.70	2.50	2.30	Panasonic KXP 2123/2180	4.95	4.80	4.60	4.40
Brother M1009/1024/109/1209	3.90	3.75	3.55	3.35	Seikosha SL90/92/95	5.70	5.55	5.35	5.15
Citizen 120D/LSP10/Swift 24/9	2.85	2.70	2.50	2.30	Star LC10/20/100	2.29	2.14	1.94	1.84
Commodore MPS 1220/1230	4.50	4.35	4.15	3.95	Star LC200	3.00	2.85	2.65	2.45
Epson LQ100	4.10	3.95	3.75	3.55	Star LC24-10/200	2.86	2.71	2.51	2.31
Epson LQ200/400/500/800/850	3.45	3.30	3.10	2.90	Citizen Swift 24	11.95	11.80	11.60	11.20
Epson FX/MX/RX80/FX/LX800	2.90	2.75	2.55	2.35	Panasonic KXP2123/2180	10.63	10.48	10.28	9.88
Epson LX80/86/90	2.12	1.97	1.77	1.67	Star LC10/20/100	6.00	5.85	5.65	5.25
Manneeman Tally 80/81	3.90	3.75	3.55	3.35	Star LC200	9.78	9.63	9.43	9.03
NEC Pinwriter P2200	3.03	2.88	2.68	2.48	Star LC24-10/200	9.63	9.48	9.28	8.88
OKI ML182/183/192/193/195	3.17	3.02	2.82	2.62					

These are just a small selection of our Ribbons - Ring for those not listed

Ring us and WE WILL BEAT all other Ribbon prices

3.5" Disks & Disks Boxes

	Bulk		Branded	
	DD	HD	DD	HD
10 Disks	£5	£6	£6	£9
25 Disks	£10	£11	-	-
50 Disks	£16	£18	£24	£36
100 Disks	£29	£33	£41	£66
250 Disks	£65	£76	£96	£153
500 Disks	£125	£148	£187	£288

All Disks Certified 100% ERROR FREE & INCLUDE FREE Labels

Lockable 3.5" Boxes/Draws	Other Boxes & Wallets
100 Capacity Box 5.99	3.5" 10 Cap. Boxes 1.50
50 Capacity Box 4.99	3.5" 6 Cap. Wallets 3.99
240 Capacity Draw 18.99	Lockable CD Drawers
	30 Capacity 16.99

Various Dust Covers available from £3.99

Inkjet / Bubblejet Cartridges

	1off	2+	5+
Canon BJ 10/10ex/20 Cartridge	16.30	16.10	15.90
Canon BJC 4000 Black Refill	7.00	6.80	6.60
Canon BJC 4000 Colour Refill	11.00	10.80	10.60
Commodore MPS1270 Cartridge	10.80	10.60	10.40
HP D'Jet 500 Series Black Cartridge	21.00	20.80	20.60
HP D'Jet 500 Series Tri-Colour Cart.	22.50	22.30	22.10
HP Thinkjet/Quickjet Cartridge	10.80	10.60	10.40

Inkjet / Bubblejet Refill Kits

Apple Stylewriter	8.50 for 2 x 20ml Refills
Canon BJ 10/10ex/20	8.50 for 2 x 20ml Refills
Canon BJ 200/230	8.50 for 2 x 20ml Refills
Epson Stylus 400/800/1000	8.50 for 2 x 20ml Refills
Epson Stylus Colour Black	8.50 for 2 x 12ml Refills
Epson Stylus Colour Colour	10.50 for 9ml of each Col
HP D'Jet 500 Series Black	11.00 for 2 x 40ml Refills
HP D'Jet 500 Series Tri-Colour	12.00 for 12ml of each Col.
Star SJ48	8.50 for 2 x 20ml Refills

Ring For Cartridges & Refills not listed

Normal UK Delivery £2.00, Next Day £7.50
Prices INCLUDE VAT (@17.5%)

01543 250377

01543 250377

Ring us or send cheques to:

Owl Associates, Dept 499, Owl House,
5 The Brambles, Lichfield, Staffs WS14 9SE



Official Government & Educational orders welcome

E&OE

EPIC MARKETING CD ROM SOFTWARE

VISITORS WELCOME

DEALER ENQUIRIES WELCOME. Telephone: 0181 873 0310 for more information.

GIF SENSATION CD128 £19.99

The new Gif Sensation double CD contains around 10,000 full colour images, Viewer and converters are included on the CD. Subjects include: Vehicles, Space, Science fiction, Textures, Landscapes, Sunsets, Money, Cartoons, Fantasy, Sports, Raytraced, Classic art. and loads more.

Suitable for adults only.

ANIME BABES (18) CD191 £19.99

Contains around 5000 erotic hand drawn images in the Japanese anime tradition. This CD is of an Adult nature and should not be purchased by anyone likely to be offended by drawings depicting nudity and / or sex acts.

Includes images only suitable for persons over the age of 18.

MICK DAVIS' CARTOON CLIPART CD235 £24.99

Mick Davis's Cartoon Clipart Volume One is a new Amiga CD-ROM containing 500 commissioned cartoon images, all of which can be used "royalty-free". Each image is stored as IFF, and all have been scanned at the highest possible resolution to ensure the best quality when printed. Mick Davis's Cartoon Clipart CD-ROM is supplied with a 30+ page printed index of each image. Every image on this CD is 100% original and does not/will not appear on any other CD-ROM.

MAGIC WORKBENCH ENHANCER V2 CD18 £19.99

The new Magic Workbench CD contains the largest collection of Magic Workbench Icons, Backdrops and tools ever compiled. Includes well over 5,000 Magic WB Icons, Over 600 specially selected Magic Workbench backdrops in 8, 16 and 256 colours, over 30 megabytes of Workbench tools, gadgets, patches and desktop enhancer tools/utilities. The CD also includes Magic Workbench as well as many other items never before released on any Amiga CD ROM. If you want to update/enhance your existing Workbench 2 or 3 then this is the perfect Workbench add on CD ROM. This CD is only suitable for any Kickstart2/3 based Amiga's such as the A500+, A600, A1200, and A4000.

THE HOTTEST AROUND CD01 £19.99

Adult Sensation is possibly the Amiga's largest selling adult title. It features over 4,000 high quality 256 colour images of the "adult" nature. Image viewers and converters are included for any Amiga. (OVER 18 ONLY)

Adult Sensation 2 CD115 £19.99

Adult Sensation 2 not only contains 4,000 new colour images but also includes tons of adult related samples, adult music modules, tonnes of adult stories, adult animations, black&white 70's photos, adult games and more. (OVER 18)

Sexy sensation CD169 £19.99

Sexy sensation, this CD contains around 2,000 specially chosen high quality BMP & GIF Images. Viewers & graphic converters are included for easy and quick access to any of the pictures on any Amiga. (OVER 18)

Adult Sensation 3D CD145 £19.99

Adult Sensation 3D actually contains over 2,000 true 3 Dimensional colour images. 3D viewing software and top quality 3D glasses are also supplied. Available now! (OVER 18) **Rated 90%**

Adult Animations CD146x £29.99

Adult Animations contains hundreds of naughty? animations/film clips for Adults only. Viewing software included for the Amiga. Limited first stocks so order now. HURRY!!!! (STRICTLY OVER 18's ONLY)

Adult MENSation CD164 £19.99

Adult MENSation is a collection of unique images of the male body. This CD-ROM has been compiled to fulfill the hundreds of requests for a CD dedicated to the ladies. Very easy to use. Okay on any Amiga.

AMIGA 1GIG HARD DISK Only £179.00 + £4.00P&P

Available now! 1gigabyte (1000mb) ready-to-fit Amiga hard drive. Pre-formatted and installed with Workbench 3. Supplied with all cables and instructions. With FREE harddisk backup sw!

AMIGA SCSI CD-ROM 2x £POA 4x £219.00 +£4

Double(2x) or Quad(4x) speed CD-ROM drive complete with Squirrel SCSI interface for the A1200. Supplied with installation software. Includes a FREE copy of the Epic Collection.

OVER 100 AMIGA CD-ROM TITLES AVAILABLE

FREE UPDATER DISK CONTAINING 2000 NEW SUBJECTS

THE EPIC INTERACTIVE ENCYCLOPEDIA CD222 £29.99

The Epic Interactive encyclopedia is an exciting new Multi-Media Amiga CD-ROM. It features a superb multimedia interface, Tonnes of film clips, images, sound samples and subject information text. It is now available for almost any Amiga configuration. A superb reference and entertaining title for the whole family.

"This is without a doubt the best CD I've bought in a very long time" J. Bloor
 "Why is it you are the only company producing decent Amiga CD-ROMs" G. Hamilton
 "If you're on the lookout for some interactive reference material then you should find this fits the bill". Tony Horgan, CU Amiga
 "My kid's won't leave the explorapedia alone" A. Smith
 "This is the product that will make people sit up and notice what the Amiga is capable of" S. Young

97% of registered users have rated the Encyclopedia 9/10 or higher.

"I've been working on this title for over a year, and it still impresses me". Vince Pike, Epic

DELUXE AGA version features include:

- *True 256 colour Multi-media Interface unlike anything seen on AGA Amiga's.
- *Produced in the UK unlike most encyclopedias
- *Thousands of subjects covered from Aachen to Zurich
- *Hotlist editor so you can create lists of subjects
- *Hundreds of samples including full spoken media-show
- *Hundreds of pictures Over 1,500 pictures included
- *Dozens of film-clips/animations Over 100 subject related film-clips
- *Import new subjects from the Internet or from floppy disk
- *Export data to printer or file and use it in your own projects
- *Kids Explorapedia a kid's interactive play-about section.
- *Subject creator Create your own subject data.
- *Network compatible Can be run through CD32 or CDTV

SCREEN TV

The main menu Kids Category selector Export screen Install & Setup

The main interface The Explorapedia menu The subject creator Hotlist Manager

SCHATZTRUHE & GTI TITLES	CREATIVE AMIGA CD-ROMS
Aminet set one 24.99	Texture Portfolio 29.99
Aminet set two 24.99	3D Objects. (LWO & IOB) 9.99
Aminet set three 34.99	Octamed Sound Studio 29.99
Aminet 14 October 12.99	CD32 Network set 2 34.99
Aminet 15 December 12.99	Personal suite 49.99
Aminet 16 February '97 12.99	BCI Pro. fonts & clipart 9.99
Amiga Repair Kit CD 49.99	DEM Rom 19.99
Amiga System Booster 19.99	Light ROM3 (3cd) Reduced 19.99
World Info 19.99	Octamed 6 CD Reduced 19.99
Turbo Calc v2.1 Spreadsheet 9.99	Xi Paint 4.0 49.99
Amiga Developers CD 14.99	1078 Weird Textures 19.99
Print Studio Pro 29.99	3000 jpeg Textures 19.99
Magic Publisher (4cd) 49.99	Into The NET (2cd) 19.99
*Meeting at Pearis 4 9.99	Multimedia Backdrops 29.99
Mods Anthology (4cd) 29.99	Sounds Terrific 2 (2cd) 19.99

AVAILABLE FOR ALL CONFIGURATIONS OF AMIGA

DELUXE AGA VERSION CD222 £29.99 Available Now!
 This version includes all the above listed features and requires an Amiga 1200 or 4000, a hard drive, a CD-ROM drive and 4mb+ of ram.

LITE EDITION CD232 £29.99 Available Now!
 This version is compatible with any ECS/AGA Amiga (500+/A600/1200) with 2mb chip ram, CD-ROM drive and a hard disk. (additional fast ram recommended)

AMIGA LE VERSION (Subject Info only) CD233 £12.99 Available Now!
 This version is supplied on floppy disks and is compatible with all Workbench2&3 Amiga's. It requires 1mb+ of ram and two drives. HD installable.

	EPIC ENCYCLOPEDIA	GROLIER	HUTCHINSON
PRODUCED IN	1996/1997	1993	1991
NO. OF PICTURES	1500+	?	1300
MADE IN THE	UK	USA	USA/UK
AGA INTERFACE	✓	✗	✗
UPGRADABLE	✓	✗	✗
NO. OF SAMPLES	100's	?	163
SEARCH MODES	NORMAL/DEEP	NORMAL	NORMAL
FILMCLIPS	✓	✗	✗
SUPPORTED	✓	✗	✗

*Many features are not present in the 1mb and 2mb versions.
 *The free updater disk is only compatible with the 4mb version.

AMIGA - THE FUTURE

THE EPIC INTERACTIVE ENCYCLOPEDIA

World Atlas CD220x £19.99

This superb highly rated Amiga CD-ROM World Atlas features flexible quick access to individual countries via continental maps, county list, capital or general index. Concise, informative county histories. Each country is supported by a series of maps depicting regional position, major cities.

Dynamics™ NEW FOR 97

Information Enhancement Sets for the Epic Encyclopedia

The new Dynamics set of enhancement disks for the Epic Encyclopedia are available shortly. Each title includes information compiled from an expert in that field, along with each subject are colour images (where appropriate). These new sets are only suitable for use with the Deluxe 4mb AGA version.

- DINOSAURS** (E003) £8.00
- COMPUTERS** (E002) £8.00
- EPIC CD-ROMS** (E001) £3.00
- BRITISH SERIAL KILLERS** (E004) £8.00

Available Now!

A superb new PAL VHS video featuring training demos of all our Amiga CD-ROM titles. Order your copy now for just £2.50 inc. P&P (VID-02)

AGA EXPERIENCE 2 (CD210x) £9.99

AGA Experience 2 contains 100% original AGA material including pictures, AGA demos, AGA games, and AGA tools. Most information runs direct from the CD. *Normally £19.99

AMINET 15 (CD238) £12.99

Aminet 15(December'96) contains over 600mb of the very latest Amiga software, including games, demos, animations, music, tools, comms, patches, etc. Available for £12.99 or £10.99 when you take out a subscription.

DEVELOPERS CD v1.1 (CD228) £14.99

This CD was rated 95% in AF, it features all the tools and information, specifications etc, needed to produce and develop Amiga software. Includes the latest versions of the installer, CD pressing software, CDXL toolkit, etc.

FREE CHOOSE A FREE CD WITH EVERY £25 YOU SPEND!

Spend £25 and choose one free CD **HOTTEST 4**
 Spend £50 and choose two free CD's **UTILITIES**
 Spend £75 and choose 3 free CD's, etc **ILLUSIONS 3D**

TERRA SOUND LIBRARY **FREE FONTS & CLIPART**

0500 ONE FREE ONE 486

EPIC MARKETING

CD ROM SOFTWARE

BACKING THE
AMIGA
ALL THE WAY
And that's a promise

VISITORS
WELCOME!

ains the
ch icons.
d. Includes
Over 600
ch back-
ver
s, gadgets,
ools/utilities.
rkbench
r before
late/enhance
bench add
ased

100
CD-ROM
LES
ABLE.

FREE
UPDATER
DISK
CONTAINING
100 NEW
SUBJECTS

s include:
rface
amiga's.


cts
ow
lips
y disk
s
ection.

CDTV
ER HUTCHINSON'S
1991
1300
USA/UK
163
NORMAL
and 2mb versions.
with the 4mb version.

NEW
FOR
97

AF, it
nforma-
ded
amiga
est ver-
press-
ut, etc.
£14.99

86



EMULATORS UNLIMITED + £19.99


Emulators Unlimited contains Software emulation tools for the Amiga. Spread over numerous platforms are emulators for: Apple, BBC, Commodore 64, Commodore VIC20, Amstrad CPC, Apple Mac, Gameboy, Atari ST, MSX, Apple200, Atari 800, Atari1040ste, Sinclair QL, Unix and more. Also features hundreds of games, tools etc for most of the emulators.



SOUND EFFECTS CD-ROM £14.99

Sound FX Sensation is an original new CD that contains hundreds of megabytes of high quality iff samples. A superb CD for game makers, demo makers, or even film makers. Hundreds of Sound FX subjects include Animals, Wild life, Nature, Explosions, Creatures, Scary stuff, Science fiction samples, House hold noises, car crashes, and hundreds more.

Includes full Licenced versions of BEATBOX and PLAY'n'RAVE 2




MOVIE MAKER SFX VOL:1 £19.99

Amiga CD features:
60minutes of audio
AGA 256 colour graphics
Multimedia interface
Hundreds of images
Video footage
4mb AGA Amiga required

SPECIAL FX Vol:1 £14.99
*Actual Amiga Screen shots

John Pasternak's "Movie Maker" series takes you step by step through the professional techniques of Special FX, Horror and Action film making. Explained in every detail are all the camera angles, editing techniques, prop building, make up etc. all using easily available domestic equipment and materials. Available on video or Amiga CD.




INSIGHT DINOSAURS £19.99

Insight dinosaurs has been produced in association with The Natural History Museum in London, and features the work of world renowned dinosaur illustrators. It features hundreds of photo's, illustrations, video clips, narration and sound effects. It is the ultimate A-Z of dinosaurs. CD includes both ECS & AGA versions.

Rated over 90%

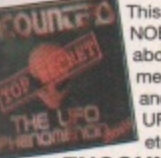
Call now for a FREE full colour 16 page CD-ROM catalogue!
and a FREE copy of the new Amiga CD-NEWS fanzine!



WORLD OF CLIPART PLUS £19.99

World of Clipart is a double CD-ROM containing around 40,000 mono and colour clipart images contained in over 100 categories in IFF, GIF, PCX, CDR, EPS, TIF, & BMP. Tools for converting images to another formats are included. Subjects include: Animals, Anatomy, Babies, Men, Women, Trees, Reptiles, Insects, Xmas, Religious, Planes, Vehicles, Ships, Zodiac signs, Eye catchers, Humour, Cats, Dogs, Computers, Technology, Sealife, Space, Symbols, Dinosaurs, Plants, Nature, Ads, Tools, Astrology, Hands, Birds, Business, Office, Workers, Cartoon, Lion King, Education, Food, Gardening, Holidays, Houses & Buildings, Helicopters, Children, Banners, Medieval, Military, Monsters, Music, Sports, Transport, and more.

Rated 94%



ENCOUNTERS (CD179) £14.99

This CD contains information that NOBODY wants you to know about, and includes tons of megabytes of text documents and photographs relating to UFO sightings and abductions etc.



SCI-FI SENSATION £19.99

SCI-Fi Sensation is an exciting new CD-ROM containing over 1.3GIG of SCI-FI images, animations, 3D objects, Sound FX, Documents, Themetunes, Scripts & SCI-FI games. Subjects included are: Babylon5, Startrek (The original, TNG, Deep Space 9 and Voyager), Batman, Dr Who, Thunderbirds, Robocop, Sea Quest DSV, Bladerunner, Aliens, Terror hawks, 2001, Blake7, Battlestar Galactica, Tron, Total Recall, 2010, Space 1999 etc.


***Buy SCI-Fi Sensation from us and you are guaranteed to always receive the latest version.**

CU Amiga: 91% AUI: 93%



SCI-FI SENSATION v2.2 £19.99

If your into Horror then this original CD ROM will please you no end. It contains Thousands of gruesome images, tons of gory animations. Bloody games. Spine tingling horror type sounds, Horror stories, Pictures & animations from tons of horror films and heaps of real-life blood'n'guts. This should have been called SICK Sensation... AUI



HORROR SENSATIONS £19.99

Strictly for mature audiences

Retro gaming at it's best. Around 3000 all-time classic spectrum game files on one CD-ROM. Emulators included for any Amiga.. Games include Manic Miner, Skool daze, Monty mole, Startrek, Thrust, Jet Set Willy, The Hobbit, Strip Poker, Danger Mouse, The Sentinel, Micro Olympics, Under Wurld, Uridium, Atic Atac, River raid, Barbarian, Hunchback and around 3000 other classic spectrum game files including multi-load games. Speccy '96 also contains hundreds of documents containing instructions for most games aswell as hundreds of speccy game cheats.


Okay on any CD-ROM drive connected to an Amiga.



THE SPECCY CD '96 £19.99

New Version!.. now also includes: Workbench games, lottery predictors, Hundreds of bad jokes and more.

Rated: AF GOLD 95% - CU 91% - AUI 90% - AC over 90%



ARCADE CLASSICS Plus £14.99


Arcade Classics is an original collection of ALL your old arcade favourites, Including Amiga versions of PACMAN, SPACE INVADERS, ASTERIODS, MISSILE COMMAND, PENGU, FROGGER, LOAD RUNNER, GALAXIANS, DONKEY KONG, NUMEROUS TETRIS GAMES, BATTLEZONE, TEMPEST, COMBAT, TRON, SPACE WARZ, THRUST, Q-BERT, HUNCHBACK, MOON PATROL, TRAIL BLAZER, BREAKOUT, CENTREPEDE, CYCLES, BEZERK, SNAKE, SCRAMBLE, PING PONG, BREAKOUT, NUMEROUS C64 CONVERSIONS, A COLLECTION OF JEFF MINTER GAMES AND HUNDREDS MORE. Over 600mb of unforgettable retro-gaming.

Now Includes easy to use Multimedia Amiga Interface.



THE EPIC COLLECTION v2 £19.99

Contains 1200 our most popular floppy based software titles on one giant 600mb CD-ROM. Now you can purchase the entire Epic collection in one go. Subjects include: Professional mono clipart, colour clipart, numerous 3D objects for Imagine & Lightwave, Colour, Bitmap, Compugraphic fonts & Adobe fonts, Graphics converters, Music tutorials, Beginners guide, 3D stereogram generators, Hundreds of Sound FX and samples, Virus Killers, Hard disk installer & tools, Various Hardware projects, Hundreds of games including Mind teasers, Puzzle, card, arcade and board games, books, and more.



THE EPIC INTERACTIVE QUIZ SHOW £24.99

COMING SOON

The Epic Interactive Quiz Show is an exciting new Amiga based CD-ROM quiz game for the whole family.

Features include:
*AGA hi-res graphics
*Virtually every question is spoken
*Upto 4 players/teams can play
*20 different subject categories
*Select from 10 different characters, or add your own characters.
*Use keyboard or special controller
*Over 3000 different questions
*Includes "flash card" questions

Available late Dec '96

OPTIONAL "INTERACTOR" CONTROLLER. £24.99

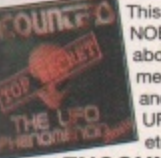
OUR TOP TEN SELLERS

1. Epic Encyclopedia
2. World of Clipart Plus
3. C64 Games
4. Speccy CD 1996
5. Magic Workbench Enhancer
6. Aminet 14
7. Adult Sensation 4 (18)
8. Anime Babes (18)
9. Arcade Classics
10. Epic Collection v2

AMINET SUPER SUBSCRIPTION

TRANSFER YOUR AMINET SUBSCRIPTION FROM YOUR CURRENT SUPPLIER AND NOT ONLY WILL YOU GET EVERY FUTURE COPY OF AMINET FOR £10.99 BUT WHEN YOU JOIN OR SUPER SUBSCRIPTION WE'LL ALSO SEND YOU £20.00 WORTH OF AMIGA CD-ROM VOUCHERS FREE OF CHARGE.

CALL OUR SPECIAL AMINET SUBSCRIPTION HOTLINE ON:
01793 432176
MINIMUM OF 3 ISSUES



C64 GAMES CD (CD182) £29.99

This NEW CD rom contains tons of all-time classic Commodore 64 games and sw emulator to run them.... Order now as stocks are bound to go quickly.



THE SOUND LIBRARY 2 (CD225) £14.99

Includes over 600mb of all the very latest music modules, covering everything from classical, rave, hip-hop, chart, slow, melow and jungle music. Also includes tons of sequencing tools and "tracker" utilities. NEW!



NOTHING BUT TETRIS (CD148) £9.99

This CD contains almost 100 variations of the worlds most addictive and loved game. Nearly all the games are ready to run directly from CD, and archived versions are also included. Available Now!

email: epic@epima.demon.co.uk Fax: 01793 514187

UK FREE FONE 0500 131 486

Send your orders to: EPIC, 139 Victoria Rd, Swindon, Wilts, UK
UK Office. Open Monday-Saturday, 9:30-5:30 Overseas: +44 1793 514188
Add £1 per title for UK P&P and £2 per title for overseas P&P

If you live in Australia or New-Zealand you can purchase any of our CD-ROMs from our Sydney based office. Send your orders to: EPIC, 36 Forest Road, Heathcote, NSW, 2233
Tel: (02) 9 620 9000 Fax: (02) 9 520 6077 *For prices in Australian \$\$\$ simply double the UK £££ prices listed.

PRIORITY ORDER FORM

NAME _____
ADDRESS _____
MACHINE _____
PAYMENT METHOD _____
CREDIT CARD DETAILS _____
EXP DATE _____

PLEASE SUPPLY All price inc VAT

ITEMS	Qty	£££
TOTAL GOODS VALUE		£
POSTAGE & PACKING		£
AMOUNT ENCLOSED		£

The Chaos Engine 2



■ Price: £24.99 ■ Publisher: Warner Interactive ☎ 0171 391 4300

We waited ... then we waited some more ... and then, as if by magic, the game appeared. Yes, it's true — The Bitmap Brothers have finally returned. And how!

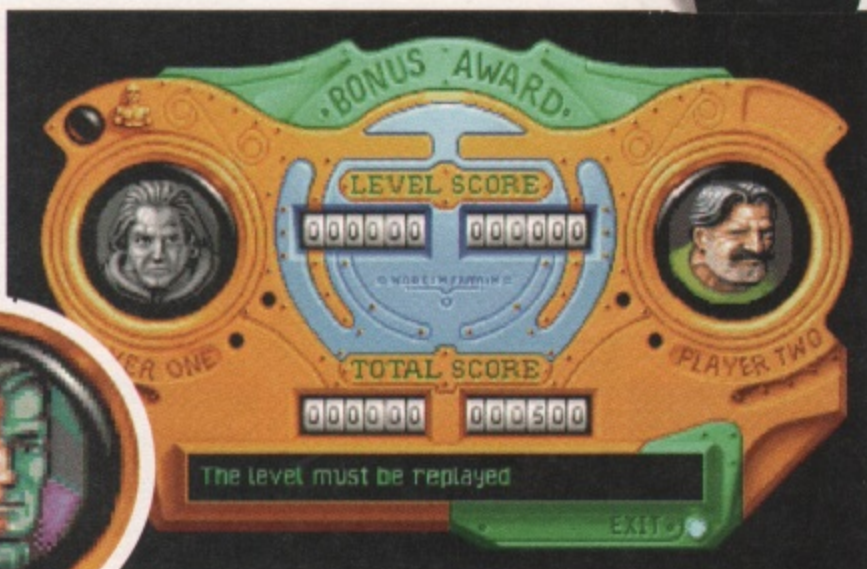
Ah, The Chaos Engine. Decidedly one of the flagship titles from the Amiga's haydays. And, I feel, one that was left with a very "To Be Continued..." feel to it. Yes, after all this time, after all the changes to the Amiga's ownership and market, the sequel is finally upon us — authored by no less than the legendary coders, The Bitmap Brothers.

So what of The Chaos Engine? Well simple really. As the twisted remains of the heart of the Engine exploded, the face of evil Baron Fortesque (boo hiss) appeared, spoke and faded. The scientist steps forward and, after examining the wreckage, concludes that

the baron has escaped and the only way to catch him now is to use the remnants of the machine to follow him; back through time...

Crikey!

Indeed. And so it is that the Gentleman, Brigand, Navvie and Mercenary find themselves trapped within the Chaos Engine, with escape only possible by helping the Baron rebuild the engine. However, the Baron will only reward the character that helps him the most with their freedom, so it's a competitive game, pitting character against character as



they attempt to accomplish the tasks set by the Baron. Whoever has the most points when the fat lady sings gets out. And for the others... DEATH! Good stuff, eh?

On paper the idea behind the gameplay is a simple one. Each of the twisted engine-built worlds has a number of levels to work through. On each of these

levels you have to collect a set number of special items to earn a key to the exit. Along the way you'll be solving puzzles, killing various monsters and collecting lesser items for points and, once through the door, have all of the above added to your overall score. Ah, but then there's the OTHER player to worry about!

A whole new world!

There are a variety of levels and worlds to play through in Chaos 2, each with their own unique graphical look and feel, and relevant baddies and objects. Though the idea and content remain the same no matter what the level, the levels do play very differently simply due to the changing attributes of the enemies, the designs of the later levels and the larger number of objectives for each location.

You might initially think it's all a bit too straightforward and linear, but believe me, once you get through the first few levels you'll have much more to worry about than simply shooting your opponent and getting through the door first!



Future World: The starting world acts as almost a training world (although training should never get so tough so fast!) and is particularly nice to start on as the layout tends to be very clear and obvious. As with all the worlds there are tons of pressure pads to trigger, doors to open, rooms to explore, switches to, er ... switch, and baddies such as robots, mad scientists and MORE robots to fight. The main objects to be collected on this world are circuit boards.



Mediaeval World: Here in the Mediaeval World the main collectible objects change from circuit boards to potions, but the theory behind it (Chaos theory, perhaps?) remains the same. The puzzles, however, start to come into their own on this world, with much more jumping between levels, and good use of power-up icons becoming necessary to mess up your opponent's progress. You've also got a large number of knights and serfs to compete with here. Grr, let me at 'em.



Aztec World: As you'd expect from a world filled with secret temples and religious icons, the Aztec scenarios are heavily trapped and chock-full of puzzles. The main objects you're looking for here are large crystal gems, but you're not the only one on the jewel hunt, as large jaguars attempt to creep off with the goods while you and your opponent bicker over power-ups and health! Watch out for bats hiding in the walls and various Chaos creatures roaming the tight corridors.



▲ We've got some likely-looking geezers here.

Two can play

Yes, it's split-screen shenanigans ahoj, as you compete against either a second human player or a (bloody intelligent!) CPU-controlled opponent. And what fun! Just when you think you've collected the necessary objects, along comes Johnny Amiga, who shoots you in the back and nicks all your items! Of course you can do the same back, or – if you're feeling particularly clever – make use of the various power-up icons that appear around the level. Trap doors (anyone remember *Spy vs Spy*?) turn invisible, teleport the annoying sod all over the shop, and even freeze him to the spot while you kick him in!

Looking at the screen shots you might be tempted to think that being able to see your opponent would spoil the surprises in store, but the reality is that you're

generally too busy to watch what they're up to, and because the level decor is consistent, even if you do take a peek, you're not always sure exactly where they are anyway.

Good show

Probably one of the most commendable things about *Chaos 2* is the fact that, though it works at its best as a cracking two-player game, the single-player game is just as absorbing and thrilling. Of course, you'll never enjoy trapping, tricking and cheating a CPU-controlled character as much as a mate, but believe me, you'll shout and swear with just as much fury when the CPU does you up like a kipper!

So there we are, after all this time; *Chaos Engine 2* — an excellent game that proves the Amiga is still capable of producing products the 'wonder-consoles' and PC snobs will only ever be able to dream of. Cool.

Instruction

Before each level the Baron's face appears to tell you about the task that lie ahead for the coming match. There will usually be a number of different sections to work through in order, with the completion of one opening the door to the next.

And remember; it's not just about who gets out first, but who has the most points, so don't think you can let your opponent



▲ And the mission for today is ...

Toys 'r' us!

Comparisons with aged classic, *Spy vs Spy*, are only further reinforced with the inclusion of special icons that equip the player with various traps and special abilities. There are initially only a few of these to play with, built as the levels progress and increase in size and complexity, each icon found becomes that much more precious. What say we go have a little look-see at but a few of the toys on offer?



Teleport: The little phone offers not the opportunity to call friends and family at cheap rate, but in fact teleports your opponent to that location a second or so after being dropped. This is superb fun if you're racing to the exit, as you can drop it on-route and cackle in a demented fashion as your nemesis gets transported back round the corner just as he thought was about to get through that all-important final door. Great.



Duplicate: An excellent 'confuse-your-enemy' toy that creates a clone of yourself that acts and thinks for itself. This is best if being chased (ie if you've got all the objects or a key) and you come to a split in the route. Drop a clone and watch as your opponent chases the empty-handed dupe around the level! Best against human opponents (who you can then laugh at when the copy dissolves).



Freeze: This is very good for taking control in a room full of creatures or for stealing keys without the risk of injury. Let this little icy-pop off and everything on the screen gets frozen solid for a few precious seconds. Particularly excellent for thwarting annoying little gits who like to wait for you to pop open the final door, then shoot you in the back and run through first. "Eat my Hotpoint, pants-face!"



Trap: Probably the most '*Spy vs Spy*' item in the game. Once activated, this icon 'traps' all objects on that screen (ie switches, doors, objects, etc.) This is a good for last ditch attacks if your opponent has all the items and keys, as you can rig the final door, hide around a corner (or turn invisible if you have another of the icons) and then run out a take the lot when he tries to unlock the exit (in a puff of smoke, I might add!)

do all the work and then simply nick the key at the end — you're gonna' have to get your hands dirty too! ■

Matt Broughton



THE CHAOS ENGINE 2

workbench version.....	1.3
number of disks	3
RAM	1Mb
hard disk installable	yes
A600	graphics..... 90%
A1200	sound..... 90%
A1500	lastability..... 89%
	playability..... 91%
A2000	OVERALL
A3000	Totally brilliant
A4000	single or multi-
	player game.
	90%

Sensible World of Soccer '96/'97

■ Price: £24.99 (£9.99 upgrades) ■ Publisher: Warner Interactive ☎ 0171 391 4300



Egads! Another SWOS update, you say? Well flambe my hobnobs if these don't come along more often than the 38 bus to Good Time City.

Ah, but this feels good! It's been too long since I wandered up to my Amiga room like some sad-but-happy old bloke trundling down to his allotment shed. It really is the only way to be; lock away the harsh realities

of telephone bills and responsibilities, load up ye good olde SWOS, and get into some seriously week-wasting career. Yes, we're here again in familiar territory my old chums, with that reassuring ache in the wrist (and you can keep your dirty comments to yourselves, thank you) and the knowledge that the moment you lose concentration you'll be relegated from managing the mighty Arse' to cleaning the urinals with a toothbrush for Southend United. But that is the good thing about SWOS and indeed the legacy of Sensible Soccer as a whole; you can leave it alone for a year, but the moment that menu tune plays out, a surge of nostalgia-fuelled

adrenalin floods through the body, and the detail of every little cheap shot and set play comes as naturally as it ever did. So why exactly are we here again? Simple — it's time once again to update the teams. If you're already an owner of SWOS then you can simply pick up the upgrade for a tenner, or should you be a Sensi virgin then now's the chance to open your mind ...

There's only one
To be honest there's really no point in going over ground that, to



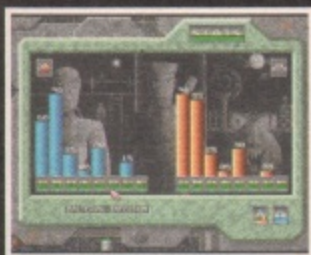
▲ Sensi: the king of football games on the Amiga. You just can't beat can you?

be frank, we've already kissed quite enough times already thank you. Many pretenders have tried to draw us in in the past but there'll only ever be one true footy game as far as most of us are concerned and that's Sensi. Having evolved from the simple-but-intricate kickabout that



APPLAUD SOFTWARE
33 York Road, Church Gresley, Swadlincote
Derbyshire DE11 9QG

DNA



DNA "A fine blend of RPG and classic strategy!"

Please send me _____ copies of 'DNA' for £14.99 (inc P&P) for the Amiga
I enclose a cheque/PO/IMO for _____ (payable to 'Applaud Software')
Name _____ Address _____
Postcode _____

Please note: 'DNA' requires a minimum of 1.5Mb of memory to run.

Sensible Soccer was to the deeply involving strategy/arcade/simulation of Sensible World of Soccer, we now find ourselves faced with the near-perfect formula that needs no improvement, simply an occasional update to avoid falling behind (and let's be honest, it was getting hard to take Manchester United seriously with Cole up front!)

Kick off

Time for a new career methinks. And look; Arsenal are as up to date as any Gunners fan could want. Hartson and Helder wait patiently on the bench hoping that someone better gets injured, while new-ish right-winger, Vieira, snuggles in amongst some of

the Premiership's most matured players - all fronted by the stunning-this-season Ian Wright. Okay, let's get going ... but wait! What's this? Surely not a new option in SWOS? But it is - in the guise of a training facility. However, unlike many management games, this isn't to improve your players' stats, but instead a chance to play against the sub-filled Arsenal B Team, making changes to both sides as you go, and checking out possible A Team inclusions. (Oh yeah - it's also pretty handy for warming up if, like me, you haven't played for a few months!)

And we're off - albeit after a quite training match to soften up those knuckle joints - straight back into the familiar embrace of hour after hour of crowd-



accompanied footy joy. It's all as it was when we first discovered SWOS, with bending passes being used to lead players forward, new-improved goalies, and the welcome addition of heading CPU teams. If you want to get REALLY anal, you can still set up your own tactics and formations, but as is always the case, the best fun's to be had with a gang of mates and a good old fashioned knock-out league.

And there you have it. Still the best football game ever. Still worth playing never mind the rendered and motion-captured pap the 'wonder consoles' are putting out. And STILL as captivating and addictive as it ever

▲ Anyone for an update? Going cheap at just £10 for SWOS owners.

was. Did you expect anything less? I didn't think so ... ■ **Matt Broughton**



SWOS 96/97

workbench version.....	1.3
number of disks	2
RAM	1Mb
hard disk installable	No

A600	graphics.....	91%
A1200	sound.....	90%
A1500	stability.....	95%
A2000	playability.....	95%

OVERALL
Still the best football game for the Amiga. **95%**

THE MINI SERIES



VULCAN SOFTWARE LIMITED IS PROUD TO PRESENT

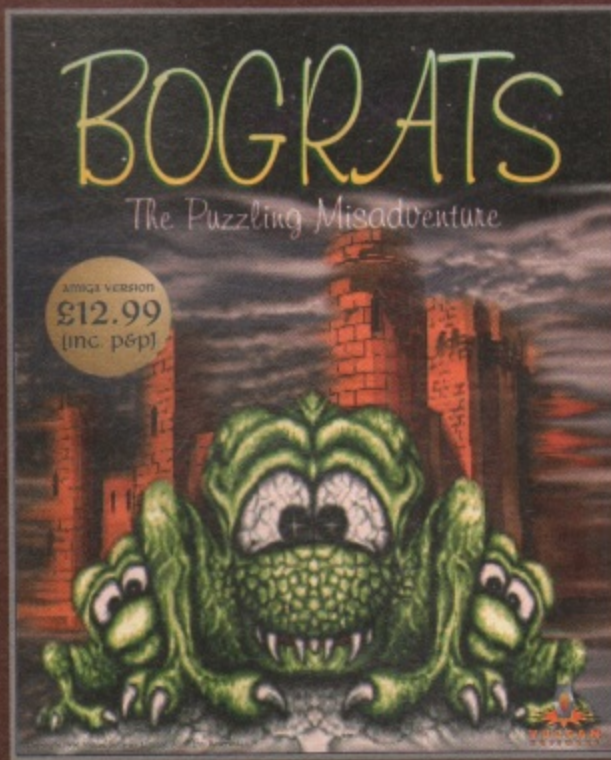
In this incredibly addictive puzzle platform game you will have to trek through 60 challenging levels full of potential disasters just waiting to happen.

Your baby Bograts wander aimlessly into danger so you will have to be alert at all times to keep them and yourself alive!

There are lift shafts, locked doors, conveyor belts, spike traps, fire hazards, slippery ice, disappearing platforms, rope bridges, jumping springs, movable blocks, exploding blocks, teleporter zones and enemy fungi blobs determined to test your logical mind to the full.

On top of guiding your offspring to safety you also need to collect the magical eggs that have so eluded everybody else as this is your only chance of escape from the mystical castle.

You have been warned these ingeniously wicked puzzles will drive you Boggy.



- 60 Treacherous Levels
- Super Smooth Character Animation's
- Realistic Gravity Equations
- Ingenious Puzzle Designs
- Empathy Related Movements
- Individual Skills For Baby Bograts
- Interactive Save Functions
- Full Animation Intro
- Hard Drive Installable
- AGA Amigas only
- Joystick Driven
- Requires 2 Meg
- Future Datadisk Expansion
- Free Technical Support

It isn't easy being a parent, as any Bograt will tell you, especially when your two delightful offspring have decided to go off on an adventure when you thought they were safely tucked up in bed. Slaving takes their bedtime story very much to heart, your children have decided to visit that awfully dangerous place, the mystical castle of Bog, in order to find the magical eggs that have so evaded everybody else. As a dutiful parent it is your task to guide the troublesome pair through the castle and safely home again.



Please send me BOGRATS for the A1200 (The Puzzling Misadventure) £12.99

Postage Charge (Overseas customers) £2.00

Payment by Cheque/Postal/Access/Visa/Mastercard for £

Name Address Post Code

Please send completed order form with payment to: VULCAN SOFTWARE LIMITED, VULCAN HOUSE, 72 QUEENS ROAD, BUCKLAND, PORTSMOUTH, HANTS PO2 7NA



The Internet is a whole new world of exciting things just waiting to be discovered. Providing, that is, you can get through.

Karen aims to connect you first time, every time.

Here at NETCOM, Karen makes sure you do just that. You see, she helps us to operate more modems per customer than other Internet Service Providers – which means you should never hear the engaged tone.

Our huge web cache in Bracknell (which is packed with all the most popular sites and games) also means you don't end up trying to connect to the same server at the same time as six million other surfers.

You'll also always be able to get through to our helpline if you get stuck, as our technical support staff are here 24 hours a day, 365 days a year.

Karen and her modems also save you money. Because they're the fastest available, you'll spend less time on-line downloading files and so have smaller phone bills. Not that you'll be spending a lot of money; all we ask is a flat fee of just £14.95 a month (including VAT) and you can have your first month for a special introductory price of just £5.95.

If you'd like to get more out of the Net with NETCOM call, fax, apply at our web site or send us the coupon below. We'll then send you your free copy of NETCOMplete Amiga that'll have you better connected within 10 minutes.



Call: 0800 973 001 Fax: 0645 123 512 Apply at: <http://www.netcom.net.uk>

The Internet people it's easier to get on with

PLEASE SEND ME MY FREE COPY OF NETCOMplete™ Amiga on diskette. When I register, I will receive my first month for £5.95. I'll be using the Net for business pleasure bit of both. Send completed coupon to: Netcom Internet Limited, Freepost TK 2238, Box 512, 28 Old Brompton Road, South Kensington, London SW7 3BR.

Name: Mr/Mrs/Miss/Ms _____

Address: _____

Postcode: _____ Telephone: _____

NETCOM and NETCOMplete are trademarks of NETCOM On-Line Communication Services Inc. All other brand names and trademarks are fully recognised as the property of their respective owners.

From time to time we may pass your name on to other, carefully selected companies who may wish to mail you with offers. Please tick here if you prefer not to receive such information.

RGU01

Fighting Spirit

Get it here
 Currently, Fighting Spirit is only available from:
Neo Software Productions GmbH, Business Park Vienna - Bauteil D1 Wienerbergstr. 7.7.0G A-1100 Wien, Austria.
 Tel: + 43 1 60 740 80
 Fax: + 43 1 60 740 80 6
 Email: neo@info.co.uk
 WWW: http://www.info.co.at/neo

■ Price: 79.90DM (£36 approx) ■ Publisher: NEO (see box out)
The best attempt at a Street Fighter clone on the Amiga is here. So, choose your weapons now.

There have been a few unsuccessful attempts at reproducing a Street Fighter clone for the Amiga. US Gold's version failed dismally in the graphics and speed department while Gametek's Paws of Fury was too limited (in movement and in choice of characters). I mean, can you really take a cute bunny rabbit dressed up in a pajama suit seriously? However, I'm glad to say that Italian programmers, Light Shock's Fighting Spirit is not bad in the graphics department and the characters are tough enough to be believable.

Teamwork

So good, so far but is it anywhere near Street Fighter in the playability stakes? I think Fighting Spirit is the closest we've gotten to Street Fighter on the Amiga in a long time. All the essential elements are there. You've got ten fighters to pick from, each with their own barage of special moves. You can play against the computer in story mode, a friend or friends in battle



▲ Fighting Spirit is the closest we've come to Street Fighter on the Amiga.

and tournament mode. And the team match option is a bit special as you get the chance to put together your own crew and pit them against the computer or a friend's team. You can also choose to have up to three times the number of team members as your opponent which is handy. Sounds great so far. However, one of the problems I found with Fighting Spirit is that it is possible to get through the game using the same character's special

move. For example, I found one character's special move floored and drained any opponent within seconds. It is tempting to do this to get through and might stop you mastering some of the other players special moves. This technique also worked on the harder modes and different speed settings. Another problem is that some the characters are a little bit jerky and the intro music is a bit too chirpy and boppy for a fighting game and doesn't do



much to psyche you up for battle. There are some great touches in FS though. Apart from being the best-looking SF clone, it's probably the fastest. It belts along even at normal speed. The blood option is OK though it won't satisfy the more bloodthirsty amongst you. There are bonus matches thrown in and some interesting 'special' players crop up every now and then. You can access these and the big end boss, Jenshi, using a special cheat but I'm not telling you that here.

So close

Overall, Fighting Spirit is a decent fighting game and is the best SF clone I've seen on the Amiga. Character control is good and the special moves are easy enough to master. I had some problems with the game crashing but the programmer assured me that this was due to my disk being faulty. I would have given it a higher mark if the price was a bit more in line with standard Amiga games. Those looking for a Street Fighter clone on their Amiga should look here first. ■
Lisa Collins

Move it

Meet the gang cos the boys (plus one girl) are all here. Yes, they're here to entertain you with their special moves. Pull up a chair.



▲ Kento hails from Japan and is well versed in oriental fighting techniques including this fiery one here. What a scorcher!



▲ Eric's ambition is to 'travel by bike with a beautiful woman'. Hmm yes. His moves include this fireball fart-like one.



▲ Burke is one evil mercenary who went to the school of hard knocks. His best move is the scorpion fist (not shown here).



▲ I nearly managed to get through the whole game using one of Rhajang's special moves: the Wharlus attack shown above.



▲ Lorentz's mortal puma is enough to put the frightners on anybody. His schizoid personality is supposed to do him wonders in the game.



▲ The only girl on the block, Sheila (who incidentally was Kento's fiancée) has plenty of watery moves. Here's the dolphin one.



▲ The wise old indian Shudar has Yadon on the run as he uses his special ring of fire move. His monkey attack move is also useful.



▲ Tong Lee looks a little off colour in his special Dread Tiger mode. But it does the trick anyway. Anyone frying tonight?



▲ This slimy reptile, Yahoo, is in need of some Listerine. His Caos flame is enough to floor anybody. Pass the fresh mints please?



▲ One of Yuri's moves feature the tip flying off his cane immediately spearing his opponent. Poor old Rhajang got it here.

FIGHTING SPIRIT AGA

- workbench version.....AGA
- number of disks5
- RAM2Mb
- hard disk installableyes

graphics.....	80%
sound.....	70%
lastability.....	80%
playability.....	85%

OVERALL
 The best SF clone yet on the Amiga.
83%

Reach for the stars

Andy Braybrook, famed for classics such as Rainbow Islands, Paratrooid 90, Fire and Ice, Uridium 2 and Virocop, talks to CU Amiga.



Name: Andrew Edward Braybrook.
Age: 21 (yeah right!).
Born: Sunny Chelmsford, Essex.
Occupation: Development Manager of Graftgold.
Biggest Success: Rainbow Islands Amiga conversion.

▲ Games guru Andy Braybrook was the man responsible for some of the best classic Amiga games.

CU: What was your first involvement in the computer industry?

AB: "My first job in the computer industry was as a COBOL programmer, in 1979, after I left school. My first game was written in my spare time on the mainframe in COBOL. It was called Space Chase. We used to play a Star Trek game on the system and once we could beat that every time we needed a new challenge, so I wrote my own.

CU: When was your finest hour at Graftgold and why?

AB: "1989 was an important year for me at Graftgold. I finally moved onto 16-bit machines from the C64 and my first

"Games of the 80s were much more playable than their counterparts now!"

project was to convert 'Rainbow Islands' from the arcade machine. I had waited for a long time to get to grips with 68000 programming, as all our publishers thought the Amiga and Atari ST were just passing fads and Commodore 64s would be around forever. We tried to tell them!"

CU: What are your favourite Amiga games? And if you had to be alone on a desert island, what would be the one and only game you'd take?

AB: "My top Amiga titles, in no order are:

Turrican 2, Datastorm and Xenon 2. As for being stuck on a desert island, that's a tricky one to answer. I think that I'd get fed up with any game if it were the only one I had. Variety is very important. Maybe I'd take Rainbow Islands, at least I can get all the way through it!"

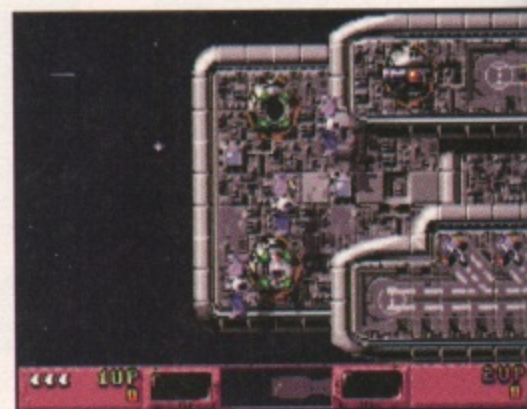
CU: What do you think of the standard of today's games?

AB: "Games of the 80s were much more playable than their counterparts now! We had to work hard on the gameplay because the graphical capabilities of the machines then were so limited. Also, most of the games were two dimensional, displayed on a two dimensional screen (which they still are today!) and played with a two-dimensional controller, the good old joystick. This meant that the player was in total accurate control. Nowadays games are 3D, but still displayed on a 2D screen and controlled with a sadly inadequate 2D joystick controller. At least there are more buttons though.

The trouble with games today is that they're getting too realistic, and realism isn't always interesting. It's less immediate. Now instead of just running over an image of more ammo and you're away, you have to position yourself in exactly the right place so as to bend down to pick it up.

"Reality is what we want to escape from when we play games. We want to do things that we wouldn't otherwise be able to do, without consequence, in a game, and it should be fun.

"Somewhere on the quest for the greatest graphics ever, we got lost on the way. One of the reasons for this is that games design is no longer driven on by the independent programmers who used to just get publishers to release their latest creations. Now the publishers dictate what will be written so games are 'designed' by marketing people's idea of what the public want".



▲ Uridium 2: those were the days eh?

CU: Where do you think the future of computer gaming is going?

AB: "Computer gaming is getting very complex these days. Programs take longer and longer to write because they're getting more and more complex. Somewhere down the line I think we'll have a more direct connection between player and computer, it'll be probably be something like Red Dwarf's 'Better Than Life'."

CU: How effectively has the Amiga contributed to Graftgold?

AB: "The Amiga was such a major part of Graftgold from about 1991 to 1995 as it was our lead machine on a number of products. I don't want to overplay its role because obviously if it had not existed then we'd have worked on other machines instead but it was a machine that I had gotten to know well over the years and it was sad to see it go before its time. It has certainly been a giant leap backwards for us, 'technology-wise' moving over to the PC.

"The Amiga had a lot of unique features that were fun to play with. Just like the 8-bit days there was a competitive spirit to see who could get the most colours on screen at once, for example like the copper effects from the original Uridium. It was a fine machine to write the sort of games on that I wanted to create and 68000 Assembler is the right tool for the job." ■

Mark Forbes

The World's FASTEST and... now the BEST VALUE too!



THE FASTEST RANGE OF AMIGA BOARDS AVAILABLE, NO ONE ELSE COMES CLOSE! COMPARE THE PERFORMANCE FIGURES BELOW FOR YOURSELF

Std A500/600/1500/2000	0.55/0.72
Standard A1200	1.33
Standard A4000 040	4.43
A1200 with 1230-IV, 030 & 4Mb	9.91
Standard A4000, 040	19.10
Amiga with 1240T/ERC, 2040ERC or Cyberstorm II 68040ERC	30.00
A1200 with 1260, 060 & 4Mb	38.71
A1500/2000 with 2060, 060 & 4Mb	38.71
A4000 with Cyberstorm, 060 & 4Mb	39.85

68040 VERSION CAN BE EXPANDED TO A FULL 68060

CYBERSTORM II

AMIGA 68040ERC and 68060 ACCELERATORS

Now you can choose between the 68040/40ERC Cyberstorm II or the ultra powerful 68060 version. 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 2.4mins... Compare that with a massive 10.34 mins on a standard A4000 040/25! With no jumpers both Cyberstorm IIs are fully plug and play and A4000 users can choose the option of a SCSI-2 module (A3000 users already have SCSI built into their Amiga hardware).

- 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 available
- If your budget currently only covers the cost of a Cyberstorm II 68040ERC, you can always upgrade later to the full 68060 processor for extra power.

NEW Cyberstorm II 40MHz 68040ERC - 0Mb - Expandable to 128Mb	£349.95
Cyberstorm II 50MHz 68060 - 0Mb - Expandable to 128Mb	£549.95
Cyberstorm II SCSI-2 Module	£89.95
Cyberstorm II SIMM RAM Expansions (please call for prices)	&Call

NEW 3D VERSION!
(Available September)

CYBERVISION 64

64-BIT ENGINE A2000/3000/4000 (T Series) 3D Version 24-BIT COLOUR ACCELERATED GRAPHICS CARD.

For all Zorro-II/III Amigas & Tower System A1200s with Zorro-II backplanes. The core of this great board is the NEW VIRGE GRAPHICS CHIP from S3. With 3D capabilities it's able to process complex 3D functions in hardware (eg. shaded/texture 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. OPTIONAL EXPANSIONS...

- 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 16/24 Bit 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 64) for a SPECIAL LOW PRICE! - Call for full details now!
- Monitor Switcher - with integrated scan line doubler. Designed to fit into the Amiga slot this gives automatic switch over 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.

Cybervision 64/3D...	2Mb Version £239.95	4Mb Version £299.95
Options...	MPEG Decoder £174.95	Monitor Switcher £84.95

Comparative MIPS performance figures measured using SysInfo. Each board had the appropriate SIMM fitted (required to activate accelerator).

BLIZZARD 1230-IV, 1240T/ERC & 1260 ACCELERATOR BOARD 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 32-Bit wide DMA
- Easy Trapdoor Installation - no modifications required (1240T/ERC fits in Tower)
- 1230-IV features PGA-FPU Socket allowing Optional 50MHz, 68882 FPU

1230-IV BLIZZARD 030

A1200 TURBO ACCELERATOR and MMU - 50MHz 68030
0Mb Standard, Exp. to 128/256Mb
9.91MIPS with 60 Nanosecond SIMM fitted

Blizzard 1230 MkIV Turbo Accelerator Memory Board

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 SysInfo rating of 9.91 (using a 60 Nanosecond 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 be easily fitted. An industry standard SIMM socket provides for up to 128Mb of auto-configuring 32-Bit FAST RAM (or up to 256Mb with the SCSI-2 option using its extra SIMM socket).

1230-IV Turbo 50MHz 68030 & MMU
0Mb, 32-Bit Fast RAM **£159.95**
Expandable to 128/256Mb

Fast 60 Nanosecond SIMM RAM Expansions
32-Bit, 72 pin (Call for prices)
Motorola Maths Co-processor
68882 PGA type FPU, 50MHz



EASY TRAPDOOR INSTALLATION
No modification necessary.
Reliable low heat output.

&Call

1240T/ERC BLIZZARD 040

A1200* TURBO ACCELERATOR and MMU/FPU for *TOWER SYSTEMS
40MHz 68040 - 0Mb Std, Exp. to 128/256Mb
30MIPS with 60 Nanosecond SIMM fitted

Blizzard 1240T/ERC Turbo Accelerator Memory Board

A super LOW COST A1200 Turbo Accelerator Board, ideal for housing on any *Tower System A1200 main board (mechanical dimensions, high power consumption and heat emission require an active cooling cap - we therefore do not recommend fitting to standard A1200's without the appropriate modifications etc.). The "ERC" Processors used on these boards are recycled and vigorously tested 68040 CPUs operating at 40MHz with MMU/FPU - an excellent guaranteed and competitively priced alternative. Available options such as the SCSI-IV Kit and RAM are shared with the Blizzard 1230-IV and 1260.

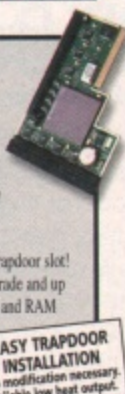
1240T/ERC Turbo 40MHz 68040 & MMU/FPU
0Mb, 32-Bit Fast RAM - Expandable to 128/256Mb **£279.95** Can be expanded to FULL 68060

1260 BLIZZARD 060

A1200 TURBO ACCELERATOR and MMU/FPU - 50MHz 68060
0Mb Standard, Expandable to 64/192Mb
38.71MIPS with Single Sided 60/70 Nanosecond SIMM

The Blizzard 1260 Turbo Accelerator Memory Board offers Amiga A1200 owners FULL 68060 POWER with a board that plugs into the trapdoor slot! Your A1200 will 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.

1260 Turbo 50MHz 68060 & MMU/FPU
0Mb, 32-Bit Fast RAM - Expandable to 64/192Mb **£499.95**



EASY TRAPDOOR INSTALLATION
No modification necessary.
Reliable low heat output.

2040ERC BLIZZARD 040

A1500/2000 TURBO ACCELERATOR and MMU/FPU - 40MHz 68040
0Mb Standard, Expandable to 128Mb
30MIPS with 60 Nanosecond SIMM fitted

Blizzard 2040ERC Turbo Accelerator Memory Board

The Blizzard 2040ERC is a super new LOW COST board which offers A2000 owners the opportunity to upgrade to the same performance as our Blizzard 1240T/ERC board. Users will then be able to enjoy full A4000/040 power as well as take advantage of the built in SCSI-2 interface. The "ERC" Processors used on these boards are recycled and vigorously tested 68040 CPUs operating at 40MHz with MMU/FPU - an excellent guaranteed and competitively priced alternative.

2040ERC Turbo 40MHz 68040 & MMU/FPU
0Mb, 32-Bit Fast RAM - Expandable to 128Mb **£329.95** Can be expanded to FULL 68060

2060 BLIZZARD 060

A1500/2000 TURBO ACCELERATOR and MMU/FPU - 50MHz 68060
0Mb Standard, Expandable to 128Mb
38.71MIPS with 60/70 Nanosecond SIMM fitted

Blizzard 2060 Turbo Accelerator Memory Board offers A1500/2000 owners the same specification as the Blizzard 1260 Turbo (A1500/2000s will operate at up to five times the speed of a standard A4000) with FULL 68060 POWER & also includes built in SCSI-2 interface! If you want the fastest A1500/2000 around... fit a Blizzard 2060 now!

2060 Turbo 50MHz 68060 & MMU/FPU with built in SCSI-2
0Mb, 32-Bit Fast RAM - Expandable to 128Mb **£569.95**



NEW



NEW

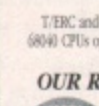
SCSI-IV KIT SCSI-2 Module for 1230-IV, 1240T/ERC and 1260, with additional 128Mb SIMM socket

(Fast SCSI-2 DMA Controller - up to 10Mb/sec transfer rates with additional SIMM socket allowing extra memory to be fitted) **£89.95**

Please Note: Memory, SIMM & FPU prices may change without warning due to exchange rate fluctuations. Please confirm price prior to ordering. CALL TO CONFIRM AVAILABILITY BEFORE MAKING A LONG JOURNEY TO VISIT US. OUR OPENING TIMES ARE... Monday to Saturday, 9.00am until 5.00pm



Blizzard and Cyberstorm products use MOTOROLA (68000) 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, 33 or even a 25MHz CPU 'clocked' to 50MHz! Look out for the MOTOROLA MOTIVATED logo - your guarantee of our commitment to quality and reliability - BEWARE of 'clocked' CPUs!



T/ERC and ERC Processors used on selected boards are recycled and vigorously tested 68040 CPUs operating at 40MHz - an excellent guaranteed and competitively priced alternative.

OUR RANGE HAS WON MORE AWARDS THAN ANY OTHER...



What the Magazines think...

Amiga Shopper 91% STAR BUY "...the Blizzard 1260 is destined to become the ultimate object of desire for A1200 owners."
Amiga Computing 92% BLUE CHIP "...want the fastest Amiga in the World, get this board!"
Amiga Format "...Ride on the fastest A1200 in the World." - 95% GOLD Rating

How to Order from GH...

BY PHONE: Simply call our order line. We accept VISA, Mastercard, Access, Switch, Connect, Delta AMEX and Lombard Creditcharge (most 'store cards' are Lombard eg. Dixons, Currys etc) - WITH NO TRANSACTION SURCHARGES!

BY POST or FAX: Include your name, address and daytime/evening phone/fax number plus order details. If charging a credit/debit card include... number and valid from/expiry date (and issue number with Switch cards). Make Cheques (please allow 7 days clearance), Drafts or Postal Orders payable to Gordon Harwood Computers Limited.

GH PRICES: Please remember to confirm prices in case you are looking at an 'old' magazine. Prices can change (up or down) before the magazine's cover month has passed. Please confirm before sending orders by post. Prices inc. VAT at 17.5%.

DELIVERY: We offer prompt shipment with fully insured express delivery options throughout the UK, Europe and Worldwide at a very modest cost.

COST OF DELIVERY TO MAINLAND UK ADDRESSES ONLY:
Standard Delivery (2 to 4 working days from date of despatch) - £7
Express Delivery (next working day from date of despatch) - £10
NON UK MAINLAND DESTINATIONS - please call for times/prices etc.

EXPORT: Most items are available Worldwide, and at TAX FREE PRICES to non EC residents and most overseas UK Armed Forces Personnel (with CO's document).

GH WARRANTY: Standard 12 month warranty or, ask about GH's optional comprehensive extended options which are always recommended for professional users to minimise costly down time. Ask GH for full details.



GH
GORDON HARWOOD COMPUTERS
Dept. CUA/D1 New Street, Alfreton,
Derbyshire. DE55 7BP

01 773 836781
or FAX: 01 773 831040

email: 100271.3557@compuserve.com



by Matt Broughton, Games Consultant.

Snip Tips



Another issue, another attempt to bribe you into sending in cheats for a free Hit Squad game.

DESERT STRIKE

EA
Malcolm Campbell of Tyne and Wear has a handy tip for any would-be Strikers who constantly find themselves running low on fuel. Simply pause the game (by pressing F10) and then unpause it and move. A second or so later pause it again, then unpause and move. If you keep repeating these steps the machine will never get as far as to take the next unit of fuel away (although 020 Amigas might 'cos of their faster speed). It might not sound like a very brilliant tip but when you're down to your last life and about to die simply because you haven't left enough fuel to get to the next supply, it's a life-saver!

SLAMTILT PINBALL

21st Century
Ta to Andrew Bolt of Lancashire for a handy five-ball cheat mode and some hidden message codes **Five-ball** - Type **'LONGPLAY'** on any table at the start while it's scrolling. A message will confirm that the cheat's on.
For messages - Type the following: **BARRY, CHEAT, COW, DANIEL, IAIN, KLAUS, KOT-TEN, STEWART, WHIPLASH.**

PUSHOVER

Ocean
Mark Wood from Barnsley (who, I might add, is a very cheeky little fella') has sent in some extra codes for this brain-melting puzzler of olde.
Also check out the 'SCREENS'

drawer on the second disk for loads of other level codes:

- LEVEL 90: 28671**
- LEVEL 91: 28259**
- LEVEL 92: 26111**
- LEVEL 93: 26623**
- LEVEL 94: 25599**
- LEVEL 95: 25087**
- LEVEL 96: 08703**

If you want to know where you can find packets of Quavers (and no, I don't mean REAL ones, I'm talking about the ones in the game, stupid!) look carefully at the following levels :

- LEVEL 11: 07168**
- LEVEL 20: 15362**
- LEVEL 30: 08718**
- LEVEL 44: 29726**
- LEVEL 62: 16598**
- LEVEL 88: 26879**

SENSIBLE WORLD OF SOCCER

Sensible Software

A very large thank you (THANK YOU!) goes out Mr S Haining of Hartlepool for a collection of high-quality cheats this month. First up is good old SWOS, and for the record, Mr S used Azap for the following procedure ...

OK, first of all pick your team and play one match. Now check how much money you have and make a note of the full amount and then save your career. Next up you should quit the game and load up your saved game into a hex editor. Go to the menu, click on Convert, type in the amount of money you have in your saved game where it says decimal, then press enter. You should now get a hexadecimal reading which you'll need to make a note of.



▲ Yes, we have some top quality cheats for a top quality game this month. Sensi fans are in for a treat.

Now go back to the menu and select Search. Type in '0x' followed by the hexadecimal reading you've just taken down and press return. It should now find the section of code that represents your money.

Click with your mouse pointer where the cursor has stopped and type **7776FFFF** over the letters or numbers but **ONLY** over the hex numbers you noted down earlier.

Now just save this altered file back onto the disk and, hey nonny nonny, when you load this file back into the game you'll have mucho dosho!

This procedure also works for UFO and some other games, so Mr S advises you all get yourself a hex editor pretty soon! And there's more ...

XTREME RACING

Guildhall Leisure

Mr S also has some Workbench shenanigans to shuffle the tracks

around in this speed extravaganza (or something). Anyway, load up Workbench and put one of the track disks into DF0.

Make a back-up copy of the trackdisk and end up with the back-up in DF0. Open the root directory and show all files, then open the directory called TRACKS. Now change the names of the race tracks so that, instead of reading: e.g. **road_circuit_IB.trk**, it reads **road_circuit_D.trk**. You'll now be able to use which ever track you renamed as a Death Match Track. Cool. ■

And ... relax.

Open your eyes, and breath normally. Well done. Thanks to all those who've written in and don't forget that any other readers thinking of sending tips in should let me know what machine you've got and what game you'd like (in an ideal world) so we can sort you out should you get your tip printed.



VAMP

I'm back with some more saucy talk. Watch out, my bite is worse than my bark.

Eye of the Beholder II

After blowing the four horns against the wall, I have beaten the green mantis and the bees but I still can't destroy the main hive. I've found a room that says: 'three bones together, they are the key'. What does this mean and where can I find the three bones?

A. Muir, Staffordshire.

Look darling there's nothing clever here, it's all perfectly simple. You simply have to collect any three old bones, (there are lots of femurs and skulls lying around in the lower levels) and place them in the magic mouth on the wall. Do this and you'll be rewarded with a bone key.

Police Quest 3 - The Kindred

Please help me? I've been stuck in this game for about a year now and don't know anyone who has it. I'm stuck on day five, I just can't do a thing on day five. Can you tell me what to do?

Daniel Simons, South Shields.

Go to the Homicide Office and read the memo on the notice board concerning women's training. Switch on the computer and go to file 199145 where you'll find out that a 1976 Sedan car is associated with the killings. Now use the tools/city map program to plot lines between the scenes of the murders. The points are; 200W Palm, 300W Rose, 300E Rose and 300S Sixth. Connect the points like this: 200W Palm to 300S Sixth, 300W Rose to 300E Rose,

Adventure Helpline

200W palm to 300E Rose. Finally, connect 300S Rose to an imaginary point on Palm between Eighth and Ninth street and connect 300W Rose to a point on Palm between Eighth and Ninth. Get this right and you'll receive a message saying that you have found the pattern.

Bard's Tale II - The Destiny Knight

I know that this is an old game but I have just stumbled on it. Now, I am hopelessly stuck. Can you tell me what the 'Three words in sequence' are which I need to gain access to the fourth level of Dargoth's Tower.

Dave Simons, South Shields.

The answer comes from three poems which you must have encountered in the tower. The three words are: Earth, Compassed and Fountain.

Leisure Suit Larry

Fawn has dumped me (Boo!) and left me with only \$10 and a knife. I managed to cut myself free and I went to the Casino and won about \$400 on the blackjack machine. But what do I do now? How do I get Faith? How do I get the darkened room's object? Please help as I've been stuck since June.

Owen Marley, Sittingbourne.

Well, much as I think that a sexist little weasel like yourself should be left to stew in your own juice, I'll help you out. You will get nowhere with Faith until you obtain enough pills to blow her mind. So it is those pills that you must find first. Once you have made enough money at blackjack to pay for two taxi fares, travel to Lefty's Bar. Knock on the door to the storage room and give the password (Ken sent me). Go straight upstairs and find the prostitute in bed. When she invites you in, take off your clothes and put on the exotic item

that you bought in the Drugstore. After the dirty deed you can climb out the window. Walk to the right of the fire escape and you'll see the pills you are seeking behind a window. At this point you're going to need a rope and a hammer to get what you need. I'll leave you to work out that bit.

Kings Quest V

I am stuck on the mountain path which is blocked by a frozen waterfall. I have tried to lasso an overhanging branch but when I begin to climb the rope I die. Can you help, I have been struggling for three months now?

Phil Hopwood, Torpoint.

I hope you're wearing your cloak because it gets damn cold out in the mountains. I think that you are trying to lasso the wrong point and that's what's causing your problem. You should use the rope on the rock overhang. Then climb that until you reach a ledge. Now use the hand icon. You will come to a massive gap and the only way to get across is by jumping from stone to stone. However, only jump on the rocks at the top of the screen as the rest are not very stable.

Simon the Sorcerer

I know that I need the woodworm to break through the floorboards in the tower but I don't know how to get them. I have tried everything I can think of on the tree stump in the forest and now I'm out of ideas. Also, how do I get a melon?

Jon Reeve, Great Yeldham.

The woodworm will only help you if you first give them something tasty to eat - namely their favourite wood. You can get this wood from the secret store that the woodcutter has hidden behind, and below, the fireplace in his cottage. However, I suspect

you're not really ready for that bit yet. To get a melon you must first get a bucket of water from the well at the witch's cottage. Find the oak in the forest and pour the water on his beans. You'll now find you can reach into the puddle of water and pick up the beans. Take the beans to the compost heap behind the wizard's house and plant them. Yes, I know that watermelons don't grow from beans, but don't blame me. I'm only helping out here until I can get a proper job!

Lure of The Temptress

After going into the caves I pulled the skulls to open the door. This worked in the first room but it doesn't work in the second room. Can you tell me what to do because I've been stuck in here for ages?

C. S. Carnell, Cunnock.

Correct me if I'm wrong but you aren't on your own in these caves are you? There is a healthy intelligent female with you! The trick is simply to get her to help you with the puzzle. In each cave you simply pull or push the skulls to open the door. However when you are in the green or blue cave tell Go into go into the cave and push and pull all the skulls four times. She isn't there simply to think about her fingernails and tell you how wonderful you are you know. ■

If you've got a little problem with your favourite RPG or adventure and would like Vamp to help you out, drop a line to: Vampyra, CU Amiga Magazine, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.



FINAL THOUGHT: PEOPLE WITH TEN MILLION POUNDS ARE NO HAPPIER THAN PEOPLE WITH NINE MILLION POUNDS.

WE WILL BEAT OR MATCH GENUINE ADVERTISED PRICES

TEL: 01384 77172

MONDAY - FRIDAY 10am - 5pm SATURDAY 10am - 1pm Switch, Delta, Visa, Access, Mastercard, Diners, American Express
Personal callers please call first to check availability

MR. MODEMS NOW 33600bps!

The latest version of these highly acclaimed faxmodems was released recently, featuring full V34+ 33600bps data speeds, fax and also voice and faxback features (accessible through your Amiga with AVM shareware software).

JUST £119.99

Look out for reviews - or call us for an information sheet.

INCLUDES FREE INTERNET ACCESS AND MEMBERSHIP TO OUR BULLETIN BOARD SYSTEM, MIDNIGHT EXPRESS!

A600/1200 CD ROM UPGRADES

Quad Speed IDE CD ROM, PC Desktop Case, 200w Power Supply, installed ATAPI software

Upgrading your A600/1200 with a CD ROM drive has never been easier, or cheaper. We can collect your Amiga via insured courier service, and install your existing hard drive, together with a quad or six speed CD ROM drive, inside a high quality PC-style slimline desktop case, powered by a 200w power supply unit (that will also power your Amiga - saving the need to purchase an expensive Goliath PSU in the future) for just £149.99 for the Quad Speed version, and £189.99 for the Six speed version.

QUAD SPEED - £149.99

SIX SPEED - £169.99

CALL FOR INFORMATION

PENTIUM PC SYSTEMS

We aren't ditching the Amiga!

Pentium P75	£755	All Pentium systems consist of the following specifications...
Pentium P100	£780	Desktop or mini tower case, Pentium motherboard with 256k pipeline burst mode cache, 8mb RAM, 850mb hard drive, 1mbPCI graphics card, quad speed CD ROM drive, Soundblaster compatible sound card and speakers, 14" SVGA monitor, 3.5" floppy drive, Windows 95 keyboard, mouse plus DOS and Windows 3.11.
Pentium P120	£805	
Pentium P133	£830	
Pentium P150	£895	
Pentium P166	£985	

*Windows 95 add £70.00 1 gig add £30.00
Extra 8mb RAM add £40.00 Eight Speed CD add £40.00*

Please call for details of any item(s) not listed, and a copy of latest price catalogue, with details of our latest offers and new products

INFORMATION AND ORDERING

We accept all major credit and debit cards, and you can telephone your order through to us during business hours on (44) 01384 77172. This line can be very busy, so please be patient. Cheques and Postal Orders may be sent to us direct at Megatronix, 21 Tiled House Lane, Dudley West Midlands, DY5 4LG. Personal callers please call first to check availability

WE WILL BEAT OR MATCH GENUINE ADVERTISED PRICES

HARD DRIVES

3.5" EIDE 540mb	£115.99
3.5" EIDE 850mb	£125.99
3.5" EIDE 1 Gig	£145.99
3.5" EIDE 1.2 Gig	£155.99
3.5" EIDE 1.6 Gig	£169.99
3.5" EIDE 2.0 Gig	£229.99
3.5" EIDE 2.5 Gig	£249.99

Our hard drive prices are reviewed on a weekly basis - call for latest pricing

2.5" 80mb	£84.99
2.5" 420mb	£124.99
2.5" 1 Gig	£199.99

2.5" drives are subject to availability

ACCELERATORS

Apollo 1230 Lite	£89.99
Apollo 1230 Pro	£149.99
Apollo 1240/25	£219.99
Apollo 1240/40	£289.99

Blizzard 1230-IV	£159.99
Blizzard 1260	£569.99
SCSI -II kit for 1230	£84.99

Magnum 030/25	£89.99
Magnum 030/40	£129.99
Magnum 040/25	£239.99
Magnum 040/40	£319.99
Magnum 060/50	£479.99
SCSI -II kit for Magnum's	£74.99

MEM UPGRADES

A600 2mb Upgrade	£19.99
A1200 4mb Upgrade	£65.99
A1200 8mb Upgrade	£89.99

33mhz FPU w/crystal	£34.99
50mhz FPU w/crystal	£65.99

STORAGE

Iomega ZIP Drive SCSI	£134.99
ZIP Cartridges (each)	£12.50

SyQuest EZ Drive SCSI	£134.99
-----------------------	---------

Iomega JAZ Drive SCSI	£Call
JAZ Carts (1gig each)	£Call

MEMORY SIMMS

72pin 4mb (70ns)	£22.50
72pin 8mb (70ns)	£37.50
72pin 8mb (60ns)	£42.50
72pin 16mb (70ns)	£79.99
72pin 16mb (60ns)	£84.99

Our memory SIMM prices are reviewed on a weekly basis - call for latest pricing

OUR ADVICE! BUY NOW TO AVOID CHRISTMAS PRICE SURGES!

SCANNERS

PowerScan b/w	£74.99
PowerScan Colour	£159.99

Highly acclaimed parallel-port fitting scanners for the A600/1200, high magazine reviews

Epson GT5000 SCSI	£399.99
Epson GT5000 Parallel	£399.99

FAX MODEMS

9600 Modems	£49.99
14400 Modems	£59.99
33600 Modems	£119.99

Our modem packs cannot be beaten! All units include free access to our BBS, Midnight Express, where you can download 1000's of PD and Shareware programs for your Amiga - Free of charge, 24hrs a day, 7 days a week.

Information on accessing the Internet with your Amiga is also included....FREE!

TELE: 01384 77172
MONDAY - FRIDAY 10am - 5pm SATURDAY 10am - 1pm Switch, Delta, Visa, Access, Mastercard, Diners, American Express
Personal callers please call first to check availability



BBS:

01384 86-56-26
(5 LINES RINGDOWN)

See us on the World Wide Web at:
www.woden.com/-mtx

FREE OPUS 4.12
WORTH £50

MAGNUM

A1200 Expansion Cards

FREE SOCCER MOUSE
WORTH £19.99
WHILE STOCKS LAST

OVER 35 MIPS OF SPEED WITH A 68060!

'060 POWER **NEW**

MAGNUM RAM8 CARD

SPEED INCREASE OF 2.3 TIMES - 2.88MIPS
 • AVAILABLE WITH 0, 2, 4 OR 8MB OF 32-BIT RAM INSTALLED
 • USES STANDARD 72-PIN SIMMS
 • OPTIONAL PLCC TYPE FPU (FLOATING POINT UNIT)
 • BATTERY BACKED CLOCK/CALENDER
 • 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.

MAGNUM 68030/68040 & 68060 CARDS

SPEED INCREASE OF UP TO 27 TIMES • 68030/40 OR 60 PROCESSOR RUNNING AT 25/40 OR 50MHZ (NEW PROCESSOR CHIP - NOT OVERCLOCKED)
 • MMU IN ALL PROCESSORS
 • UP TO 32MB OF RAM CAN BE ADDED
 • KICKSTART REMAPPING
 • OPTIONAL SCSI-II INTERFACE
 • CAN ACCOMMODATE A 72-PIN INDUSTRY STANDARD SIMM
 • 68040/60 HAVE BUILT-IN FPU, 68030 CARD HAS OPTIONAL PLCC/PGA TYPE FPU (FLOATING POINT UNIT)
 • BATTERY BACKED CLOCK/CALENDER
 • TRAPDOOR FITTING - DOESN'T VOID WARRANTY
 • PCMCIA COMPATIBLE SO YOU CAN STILL USE PRODUCTS SUCH AS OVERDRIVE HD OR CD/ZAPPO CD-ROM OR SQUIRREL
 • ZERO WAITE STATE DESIGN.

LOWEST EVER PRICES

FREE UK DELIVERY

	0MB	4MB	8MB	16MB	32MB
RAM8	£49.99	£89.99	£119.99	N/A	N/A
RAM8 & 33MHz FPU	£79.99	£119.99	£149.99	N/A	N/A
68030/25MHz & FPU	£99.99	£139.99	£169.99	£209.99	£279.99
68030/40MHz	£129.99	£169.99	£199.99	£239.99	£309.99
68030/40MHz & FPU	£149.99	£189.99	£219.99	£259.99	£329.99
68030/50MHz	£169.99	£209.99	£239.99	£279.99	£349.99
68040/25MHz	£249.99	£289.99	£319.99	£359.99	£429.99
68040/40MHz	£329.99	£369.99	£399.99	£439.99	£509.99
68060/50MHz	£499.99	£539.99	£569.99	£609.99	£679.99

SCSI-II Interface for the Magnum 68030/68040 & 68060 Cards - Warranty safe installation, supplied with software - **£79.99**

560 DPI 3 BUTTON MICE & MATS

for all Amigas & Atari STs

NEW FREE AMIGA DRIVER DISK

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

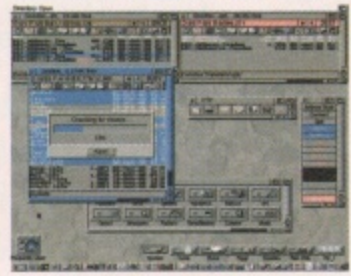
BEIGE **£12.99** BLACK **£14.99**
MAT **£2.99** OR **£1** WITH A MOUSE



OPUS 5

VERSION 5.5
NOW SHIPPING

THE BEST JUST GOT BETTER! AFTER 12 MONTHS OF FURTHER DEVELOPMENT OPUS 5.5 IS NOW READY AND SHIPPING. STUNNING NEW FEATURES INCLUDE:-
 • ICON ACTION MODE
 • WORKBENCH REPLACEMENT MODE DRAMATICALLY ENHANCED
 • OPUSFTP CAPABILITY TO ACCESS INTERNET FTP SITES WITH A LISTER
 • BORDERLESS BUTTON BANKS
 • FILETYPE-SPECIFIC POP-UP MENUS
 • CYBERGRAPHICS RTG SUPPORTED
 • INDEPENDENT HOTKEYS
 • SCRIPT SYSTEM TO EXECUTE COMMANDS ON EVENTS
 • MULTIPLE CUSTOM MENUS WITH SUB ITEMS
 • AUTOMATIC FILETYPE CREATOR TO CREATE AND TEST FILETYPES WITH EASE
 • A FONT VIEWER
 • LISTER'S FIELDS FOR TITLES, RE-SORTING BY FIELDS, PLUS A 'VERSION' FIELD
 • COLOUR RE-MAPPING OF BUTTON/ICON IMAGES WITH SUPPORT FOR 'MAGIC WORKBENCH' ETC.
 • SELECTIVELY HIDE UNWANTED ICONS
 • CLIPBOARD SUPPORT FOR CUT, COPY AND PASTE IN GAL & LISTER'S
 • RESIZE, ICONIFY, AND SCROLL BUSY LISTER'S WHILE WORKING
 • ICON AND LISTER SNAPSHOTS ARE STORED SEPARATELY FROM WORKBENCH - SO YOU COULD SNAPSHOT YOUR CD-ROM ICONS
 • LISTER'S CAN NOW DISPLAY A BACKGROUND PICTURE/PATTERN
 • INTERNAL OPUS CLI TO QUICKLY TEST COMMANDS & AREXX SCRIPTS
 • MANY NEW INTERNAL COMMANDS AND MANY NEW AREXX COMMANDS HAVE BEEN ADDED OR EXTENDED WITH NEW FEATURES. YOU CAN NOW EVEN ADD YOUR OWN INTERNAL COMMANDS!



Workbench 2+ & Hard Disk Required

£49

PRO SYSTEM

Complete A1200 Hard Disk Kits

FREE OPUS 4.12
WORTH £50

640MB **£149**
1.0GB **£179**
1.6GB **£219**

YES, AT LONG LAST, A PROFESSIONAL WAY TO INSTALL A HIGH CAPACITY HARD DISK WITHOUT CARDBOARD & GLUE! OUR PACKS OFFER YOU OUR EXCLUSIVE AND COPYRIGHTED BRACK-IT 1200 FITTING SYSTEM & A CHOICE OF HIGH SPEED/LOW COST HARD DISKS.

3 YEAR WARRANTY

BRACK-IT 1200 FITTING SYSTEM
 DESIGNED TO ACCOMMODATE THE NEWER DRIVES ON THE MARKET OFFERING HIGH CAPACITY & SPEED AT GREAT PRICES. OUR PACK INCLUDES ROBUST STEEL FITTING BRACKETS, ALL 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!

INCLUDES BRACK-IT SYSTEM (WORTH £35) & UK DELIVERY
 NEED THE DRIVE INSTALLED BY A PROFESSIONAL ENGINEER? OUR COLLECTION, FITTING & DELIVERY SERVICE IS JUST A CALL AWAY FOR MORE DETAILS

FREE DELIVERY

SATURN

External 1mb Floppy Drive for all Amigas

FREE OPUS 4.12
WORTH £50
FREE 3 GAMES
WHILE STOCKS LAST

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
£39.99
 Or **£59.99** WITH POWERCOPY PRO 3 - THE BEST BACKUP SYSTEM

TURBOPRINT 4.1



IF YOU HAVE A PRINTER - YOU MUST GET TURBOPRINT 4.1. 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. AMIGA SHOPPER 90%.
£49.99

ENTERPRISE



DeskTop Workstations for all Amigas
SINGLE WORKSTATION 507 x 95 x 315mm **£24.99**
DOUBLE WORKSTATION 507 x 155 x 315mm **£29.99**
WIDE WORKSTATION 665 x 95 x 315mm **£29.99**
 ALL SIZES ARE W x H x D
£5 OFF FOR A LIMITED PERIOD

GP FAX

Fax Software Solution for all Amigas with a Modem
 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

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 TRAINED & FULLY QUALIFIED
 • UPGRADES BOUGHT AT SAME TIME FITTED FREE!
 • 90 DAYS WARRANTY ON ALL REPAIRS
ALL FOR JUST £29.99 + PARTS

BSB

Books & Videos
 INSIDER GUIDE - A1200
 INSIDER GUIDE - A1200 NEXT STEPS
 INSIDER GUIDE - ASSEMBLER
 INSIDER GUIDE - DISKS & DRIVES
 INSIDER GUIDE - WORKBENCH 3 A TO Z
 TOTAL! AMIGA - WORKBENCH 3
 TOTAL! AMIGA - AMIGADOS
 TOTAL! AMIGA - AREXX **NEW**
 TOTAL! AMIGA - ASSEMBLER
 MASTERING AMIGA SCRIPTS
 MASTERING AMIGA BEGINNERS
 MASTERING AMIGA PRINTERS
 MASTERING AMIGADOS 3 - REFERENCE
 MASTERING PROGRAMMING SECRETS
 AMIGADOS PACK
 TOTAL! AMIGA - AMIGADOS & MASTERING AMIGADOS 3 - REFERENCE USUALLY £43.94 - SAVE NEARLY £9
 A1200 BEGINNER PACK
 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
 2 BOOKS (DISKS & DRIVES & WORKBENCH 3 A TO Z), A 90 MINUTE VIDEO, 1 DISK & REFERENCE CARD

QUARTERBACK DISK SUITE

Quarterback 6.1 & Quarterback Tools Deluxe
 THE CLASSIC QUARTERBACK 6.1 AND QUARTERBACK TOOLS DELUXE ARE BACK ON SALE. CONSIDERED BY MOST AS THE DISK BACKUP AND DISK RECOVERY PROGRAMS WE HAVE AVAILABLE, FOR A LIMITED PERIOD, THE TWO PACKAGES COMBINED AT AN UNBELIEVABLE PRICE (NORMALLY £79.99). DISK BACKUP AND DISK RECOVERY/OPTIMISATION ARE TWO KEY TASKS THAT JUST SHOULDN'T BE LEFT TO INFERIOR PD ALTERNATIVES. GET THE BEST
GET THE QUARTERBACK DISK SUITE. £34.99

EASYLEGERS 2 - THE ONLY FULL ACCOUNTS PACKAGE, LEDGER BASED ACCOUNTS SYSTEM, AMIGA FORMAT GOLD
CALL ABOUT TRAIL OFFER
 HARD DISK & 2MB RAM REQUIRED **£119.99**

33MHz FPU Kit - PLCC TYPE FPU & CRYSTAL - WILL FIT MOST CARDS - CALL TO CONFIRM.
£34.99

DISKS
 50 DISKS & COLOUR LABELS **£14.99**
 100 DISKS & COLOUR LABELS **£24.99**

OTHER PRODUCTS

A500 512k RAM EXPANSION **£17.99**
 A500PLUS 1MB RAM EXP. **£24.99**
 A600 1MB RAM EXPANSION **£24.99**
 ALL WITH A FREE OPUS 4 WORTH OVER £50
 4MB 72-PIN SIMM **£40**
 8MB 72-PIN SIMM **£70**
 16MB 72-PIN SIMM **£110**
 32MB 72-PIN SIMM **£180**
 ALL SIMMS ARE NEW AND HAVE A 1YR WARRANTY

WIZARD DEVELOPMENTS

ORDER HOTLINE
01322-527800
 OR FAX **01322-527810**

BETWEEN 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

Cheques should be made payable to WIZARD DEVELOPMENTS. Prices include VAT & carriage to the UK mainland. Please add £5 to your order 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.

PC TASK 4.0

Amiga 486 PC Software Emulator
 RUN PC PROGRAMS WITHIN AN AMIGA WINDOW, USE YOUR AMIGA HARD DISK, RUN WINDOWS 3 & MS-DOS, VERSION 4 NOW ALLOWS:-
 486 EMULATION, CD-ROM SUPPORT, CYBERGRAPHICS SUPPORT & MANY INTERNAL SPEED ENHANCEMENTS. V4.0 REQUIRES AN '020 PROCESSOR OR BETTER.

CALL ABOUT UPGRADES **£69.99**

IMAGE FX 2.6

The Complete Image Processing Solution for all Amigas
 THE BEST IMAGE PROCESSING PACKAGE THERE IS FOR THE AMIGA. AMIGA FORMAT GOLD - CU AWARDS. BUBBLE FILTER, FIRE FX, WIRELESS HOOKS, SHEAR & STRAW MODES, ENHANCED LIGHTNING EFFECTS, FILMGRAIN ADD/REMOVE, LIQUID DISTORTION, SPONGE DRAWMODE, SPARKLE EFFECT & MUCH MORE ARE IN VERSION 2.6.
2MB & HARD DISK REQ. £17.99





I think this festive thing has gone too far this time ... anyway look at these lovely reviews we've got for you this month (ho, and indeed, ho).



Art Effect 50

50 Art Effect

In the mould of the Mac's Adobe Photoshop, Art Effect offers previously unavailable powers to the 24-bit Amiga artist.

53 Personal Paint 7

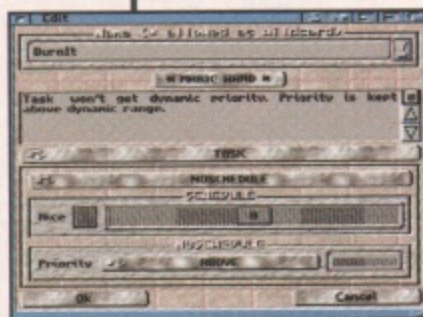
Yet another update of this long-standing register-based paint program turns up in contrast to the current trend for 24 bit work.



Personal Paint 7.0 53

58 Executive

While the Amiga's multitasking is one the cornerstone's of its excellent operating system, Executive can drastically improve it!



Executive 58

61 1240 T/ERC

Could this be the most appealing A1200 68040 card ever? The only snag is, you'll need a tower A1200 to use it!

61 PC Keyboard Interface

What happens when you need a new keyboard for your Amiga? Atéo come to the rescue with the PC keyboard interface



PD Utilities 62

62 PD Scene

Demos, games and various oddities from the wonderful world of PD and shareware entertainment.

66 PD Utilities

It's amazing what you can find in the realms of serious shareware and PD. This month's round-up throws up another choice selection.

68 CD Instructions

Find out all about this month's super CD-ROM with a guide to what is in each section. We've got a corker lined up for you yet again.

72 CD-ROM Scene

A quartet of new CD-ROM releases come under the spotlight, including a top educational disc, a cool new Internet CD and yet another Imagine object collection.



TECH SCENE

CD Amiga

AMIGA GOLD
 ICON ACTION
 Y TO ACCESS
 UP MENUS
 MANDS UP
 DATE AND TE
 AS A 'VERSI
 WITH SUPP
 UNWANTED D
 STE IN GADG
 ERS WHILE B
 RATELY FROM
 ROM ICONS
 JURE/PATTER
 S & AREO
 49
 £149
 £179
 £219
 CK-It SYSTEM
 UK DELIVER
 E INSTALLED
 IAL ENGINEE
 N, FITTING
 CE IS JUST
 MORE DETAIL
 FREE
 DELIV
 B
 Ideas
 £14
 T STEPS
 £14
 £14
 VES
 £14
 3 A TO Z
 £14
 3
 £18
 £20
 £24
 NEW
 £27
 £24
 £18
 £18
 £18
 REFERENCE
 £27
 SECRETS
 £27
 £34
 S & MASTERING
 ALLY £43.94
 £30
 (T STEPS), A 60 M
 H THE BOOKS/AND
 OSTER PACK £30
 ORKBENCH 3 A TO
 REFERENCE CARD

Art Effect

■ Price: £79.95 ■ Developer: Haage and Partner
 ■ Supplier: Blittersoft ☎ 01908 261466



It's not every day a new graphics program appears for the Amiga, especially one as impressive as this.

Things were pretty quiet on the Amiga graphics front, until Photogenics came along. At last, a program which pulled the Amiga away from the Deluxe and Personal Paints of this world, and gave us tools which compared very favourably to those on the Mac and PC. Photogenics acknowledged that many users had more than 2Mb of memory and wanted more than IFF animation features. Being able to play with individual pixels was not as

important as high quality filters and support for 24 bit graphics and graphics cards.

Art Effect is a refinement of that concept, brought to us by those industrious Germans responsible for Storm C. Compared to Photogenics, Art Effect looks rather simple and featureless but that does nothing more than demonstrate that a well-designed user interface is worth a dozen metre-high scrolling windows.

If you notice some comparisons



▲ The well-designed user interface pays homage to one of the greats, Photoshop.

being made between Art Effect and Adobe Photoshop, there's a very simple reason. Art Effect is practically a direct copy – to all intents and purposes, it's an Amiga version of one of the best graphics packages ever written. To deny that the programs are similar is to overlook its main features, the layout of the tools and menus, the floating tool palettes and a dozen other touches which have been lifted directly. Is this a bad thing? Absolutely not. Photoshop didn't become the most sought-after graphics program in the world because it was badly designed and featureless.

Best features

So what makes Photoshop, sorry, I mean Art Effect so special? It's no secret – simply a combination of ease of use and some very powerful features. The key is the flexible masking and stencil options. Other packages can make it needlessly difficult to select specific areas of a picture. For example, let's say you have a scanned picture of a person standing in front of a wall, and you want to remove or re-paint the wall behind them. With other programs this can mean a pain-staking hour or two spent in

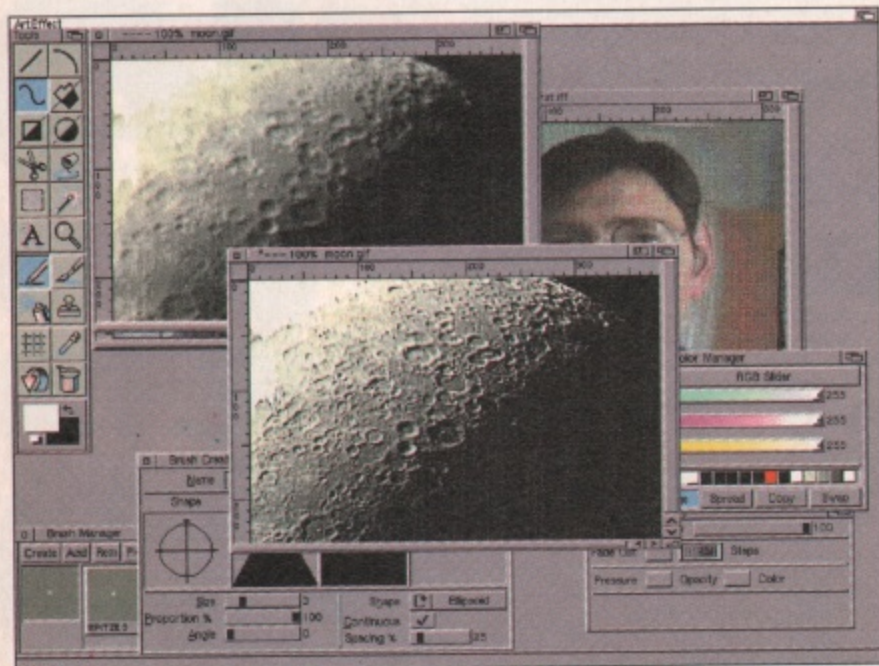
magnification mode, drawing an outline around the person. Only then can you isolate the background, but you still can't easily deal with the entire background as one complete selection.

Kinda magic ...

With Art Effect, you can use the Magic Wand feature to highlight areas of similar colour. This means you can select the entire background with one or two clicks. You can then process or paint over only the selected regions, leaving the person entirely untouched. This is the kind of feature which the Amiga paint programs have historically lacked.

Other ideas have been borrowed as well: feathering allows a region to be selected not with a finite border but with a graduated edge. Brushes can be defined in terms of shape and opacity. There are different surfaces to draw on, giving unique textures to your brushstrokes.

Plugins allow other utilities and features to be integrated into the program through an easy to use User Interface. All these are included alongside support for plenty of graphics formats. Cybergraphics cards, Datatypes



▲ The filters have practical as well as artistic merit: here the Sharpen tool is used to bring out detail in a photograph of the moon.

Magic Wand

Perhaps Art Effect's single most useful tool is the Magic Wand. Amiga programs have been crying out for this feature since the first version of Deluxe Paint. Here's a taster of what you can do with it. Take it away boys.



▲ Load in the image you want to play with.



▲ Using the Magic Wand select the background.



▲ Use the graduated fill to provide a new background.

and the usual clean and efficient Amiga user interface we all know and love.

Art Effect is the kind of program you can load up and use either for fun or for creating professional quality images. It's ideal for dealing with 24-bit pictures, whether scans, digitised images or 3D renderings. It's a superb manipulator of images but it's also perfect for creating top-quality images from scratch. There are a few snags: I'd have like to have seen ARexx support and on-line help and the Cut and Paste routines are more than confusing.

Yes, high end graphics like this requires the hardware to back it up. The more memory you have the better, and if you don't have an Amiga with a graphics card, this is a good enough reason to buy one. Art Effect will allow you to paint with 24-bit graphics on screen: that's more than 16 million colours on-screen at once. At the other end of the scale, you can use Art Effect in 256 colours or less on an A1200 and it's still a great program.

Conclusion

It's taken a long time, but there's clearly still hope for the Amiga with software of this calibre appearing. Art Effect is still not quite state-of-the-art: it's very similar to Photoshop version 2, while version 4 has only just been released. As a result, some useful features such as Layers are missing – but then again Macs and PCs used for graphics work are rarely seen without 16 or 32Mb of memory, hugely expensive processors and an OS which includes virtual memory as standard. For Art Effect to run on an A1200 is quite a feat.

If some Amiga-specific features such as ARexx could be included (perfect for batch processing: only Photoshop 4 has this) then Art Effect could leapfrog the opposition to help the Amiga regain it's graphics crown. One thing is for certain:

Filters
A filter is a very special effect which you can apply to the entire image or a chosen part.
Filters can vary from simple blurs to quite involved mathematical algorithms: but you don't have to worry about all that because you get to see them all beforehand in a little preview window.
Here are some of my very favourite filters at work for you to enjoy.



▲ Posterize reduces the number of image colours.



▲ Threshold produces a two-tone image.



▲ Gaussian blurs the image.



▲ Edge finder makes a colour or greyscale outline.



▲ Relief gives a nice embossed effect.



▲ OilPaint makes things slightly blobby.



▲ Twirl adds a little twist to your image.



▲ BumpMap uses a brush to dent your image.

you no longer need to spend thousands of pounds to get Photoshop results.

So, should you buy Art Effect? Answer these simple questions. Do you use your Amiga for

graphics? Buy Art Effect. Do you have an Amiga with a graphics card? Buy Art Effect. Are you alive? Buy Art Effect. Are you starting to see the pattern emerging? ■

John Kennedy

Art Effect

system requirements:
 AmigaOS 3.0, ECS or AGA system or CyberGraphX software, Hard disk, a minimum of 2 Mb RAM, 4 to 8 Mb RAM recommended.

ease of use95%
 Couldn't be easier to use. Just like falling off a log.
performance97%
 Comes up with the goods without any fuss or bother
value for money96%
 Absolutely superb value for money. What can I say. Just buy it.

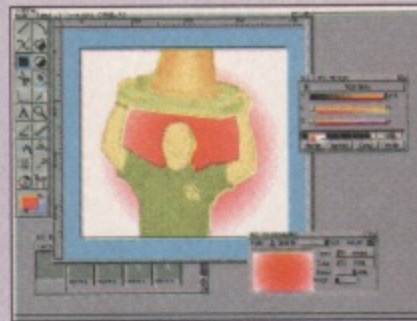
OVERALL
 The best Amiga art program. Buy it and enjoy it. **96%**



▲ Invert the mask and now the foreground is selected.



▲ Apply a filter and only the figure is processed.



▲ And voilà, the finished picture.

17 BIT SOFTWARE

1ST FLOOR OFFICES
2/8 MARKET STREET
WAKEFIELD
WEST YORKS
WF1 1DH
TEL (01924) 366982
FAX (01924) 200943



WE STOCK THOUSANDS OF AMIGA PUBLIC DOMAIN DISKS. SEND AN S.A.E. STATING THE MODEL OF YOUR AMIGA FOR A FREE CATALOGUE

WE NOW OFFER A **30 DAY MONEY BACK GUARANTEE** ON ALL THE CD'S WE STOCK! If you're not 100% delighted with your purchase, return it within 30 days for a no quibble, no questions asked refund!

WE PRICE MATCH CD'S

POSTAGE RATES

UK - 75p Per CD. Max £1.50
EU - £1.00 Per CD. Max £4.00
R.O.W. £1.50 Per CD. Max £6.00

ALL ITEMS ARE IN STOCK AND AVAILABLE FOR SAME DAY 1ST CLASS OR AIRMAIL DESPATCH

SPECCY 96!

A CD Packed With Classic Spectrum Games To Run On Your Amiga!

**IN STOCK NOW!
£17.99!**

E.M.COMPUTERGRAPHIC

PHASE 1 £24.99
PHASE 2 £24.99
PHASE 3 £24.99

Fonts & Clipart CD's
IN STOCK NOW

ZOOM 2 IN STOCK NOW!!!!
After A Long Wait, It's HERE!
£17.99!!!

WE HAVE MANY MORE CD'S IN STOCK THAT ARE NOT LISTED HERE DUE TO SPACE. IF YOU DO NOT SEE A CD YOU REQUIRE LISTED, CALL US!

MORE TOP TITLES AVAILABLE!

F1 LICENCEWARE £31.99	AGA EXPERIENCE £17.99	OCTAMED 6 £26.99	WORKBENCH ADD-ON £24.99	GIFS AGA £17.99
SCENE STORM £17.99	ASSASSINS 2 £17.99	5TH DIMENSION £17.99	NET NEWS £14.99	EMC PHASE 4 £39.99
WORLD ATLAS £34.99	AMINET SET 3 £29.99	AMOS 2 £17.99	SOUNDS TERRIFIC 2 £17.99	AMINET 13 £14.99
NETWORK CD 2 £14.99	LIGHT ROM 3 £34.99	AGA EXP. VOL 2 £19.99	ENCOUNTERS £14.99	SCI FI SENSATIONS £17.99

Email: sales@bit17.demon.co.uk WWW: <http://www.demon.co.uk/bit17>



tel: (01263) 722369

13 Russell Terrace, Mundesley,
Norfolk NR11 8LJ

9.30 - 6.00 Monday to Friday,
10.00 - 1.00 Saturdays

You can either phone your
order, email, cheque or
postal order.

rich@sadeness.demon.co.uk

<http://www.sadeness.demon.co.uk/>

www.sadeness.demon.co.uk/



CHRISTMAS OFFERS

Adult Sensation 1, 2 or 3D	£16.99
Adult Sensation 4	£27.99
AGA Experience Vol 2	£14.99
Amiga Developer v1.1	£13.99
Amiga Utilities 2 (2CD)	£9.99
Aminet 12, 13, 14 or 15	£11.49
Aminet Subscriptions Available	£9.99
Aminet Box Set 1	£19.99
Aminet Box Set 2	£24.99
Aminet Box Set 3	£29.99
Anime Babes	£15.99
AWEB 2.1	£39.99
CDPD 1, 2 or 3	£3.99
Epic Encyclopedia	£27.99
Euroscene 2	£8.99
Grolier Encyclopedia	£22.99
Horror Sensation	£12.99
Hottest 6	£8.99
Into The Net (2CD)	£16.99
Killing Grounds (AB3D 2)	£22.99

Magic Publisher (4CD)	£29.99
Meeting Peels 3	£7.99
Mods Anthology (4CD)	£24.99
Multimedia Toolkit 2	£6.99
Oh Yes More Worms	£4.99
Photogenics 2	£89.95
Scene Storm	£8.99
Sci-Fi Sensation (2CD)	£12.99
Specy 96 (95%-AF)	£12.99
Special Effects Vol 1	£19.99
Texture Gallery (2CD)	£15.99
Texture Portfolio	£12.99
The Demo Collection 1 or 2	£3.99
The Utilities Experience Vol 1	£8.99
Weird Science Clipart	£8.99
World Info 95	£16.99
World of Clipart Plus (2CD)	£12.99

PRE-ORDER

Champ Manager 2 (96-97)	£22.99
Epic Interactive Quiz Show	£23.99
Worms AGA (Directors Cut)	£24.99



CAPITAL
GAMES

Order Price £24.95



CD 'X'

Pre-Order Price
£24.95

CD-X is an Interactive Multimedia Encyclopedia of the Paranormal, topics include:

Aliens and UFOs - This CD will be one of the best resources for anybody even remotely interested in Alien Life Forms, Unidentified Flying Objects, Alien abduction cases and Close Encounters etc. With hundreds of informative and interesting text files, a comprehensive UFO image gallery, some of the very best Web Sites, masses of quality animations and sound samples and more, this is a real multimedia experience.

Government Cover-ups and Conspiracies, did you ever think that there were things that your government wasn't telling you? Well, there is! Some of the most top-secret documents, pictures and files are here for you to see. Majic 12 UFO group documents, 'authentic' military UFO photos, and much more - like some of the most interesting theories on the JFK assassination.

Murderers and Serial Killers, we have collected information about some of history's most evil people - from Adolf Hitler to Jack the Ripper. Read all about their most unbelievable and gruesome crimes.

The LATEST EBE reports including detailed SETI information. Also, the very latest updates on the amazing news of fossilised Life signs found on a meteorite from Mars by NASA!

Science-Fiction Art. On this CD, there are details about the World's greatest Science Fiction artists! For example, we have created a special exclusive H.R. Giger (well known for his work on Alien) gallery!

And loads more, such as disasters, witchcraft, voodoo, cult, crop circles, assassinations, space, time travel, bigfoot, worm holes etc etc.

CD-X is retailed at £29.95 but we are offering a Pre-Order price of £24.95 (price includes postage). Release date - Monday 16th December. (Orders will be dispatched for Christmas.)



Women of the WEB is an all new CDROM which is compatible with any AGA Amiga, PC or Apple Mac. It's an Interactive Multimedia Encyclopedia of over 500meg of images, text related info, MPEGS, WAV and MOV files for over 250 female celebrities.

Women of the WEB is displayed in superb HTML documents which can be viewed using any WEB browser, ie AWEB, Ibrowse, Voyager, Netscape etc. (WEB browsers included, set up for Amiga, Apple Mac and PC, ready to run).

Women of the WEB is retailed at £24.95, but we are offering a Pre-Order price of £19.95 (price includes postage). Release date - Monday 25th November.

Pre-Order Price
£19.95

18

Personal Paint 7.0

■ Price: £39.95 ■ Developer: Cloanto ■ Supplier: Weird Science ☎ 0116 234 0682

Painting, animation and image processing all rolled into one. And all for just £39.95. It's too good to be true.

Cloanto, the Italian Amiga-only software house, has a long history of updating Personal Paint. Version 7.0 is the latest installment and is distributed on a dinky 8cm mini-CD with electronic AmigaGuide documentation, example anims, pictures and fonts filling the remainder of the 60Mb CD.

I've long been a fan of Personal Paint since it seems ideally geared to the sort of operations I perform day to day. It's also well behaved on my CyberGraphX based system where other paint packages would fall over dead at the first hurdle. Personal Paint is no Deluxe Paint though. It works strictly with indexed 8-bit images up to 256 colours. There's no HAM8 or other truecolour type display and fancy real worldesque painting tools as you'd expect to find in something like Photogenics.

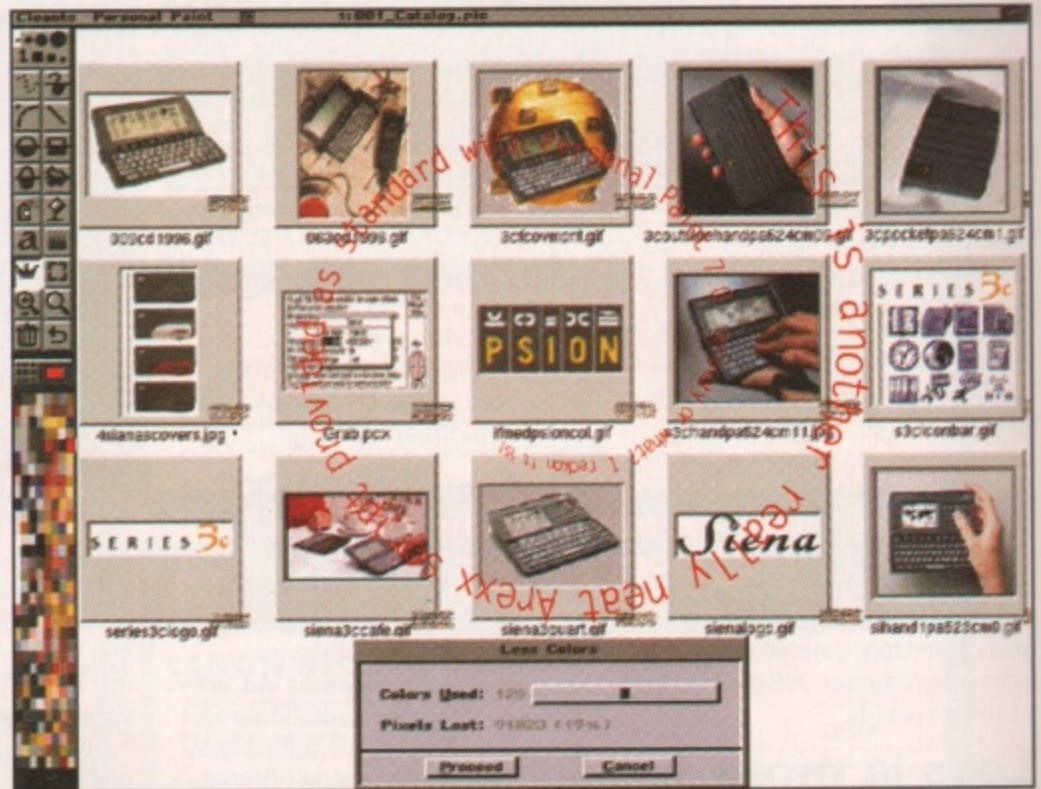
Plain face

Personal Paint has a simple uncluttered interface with custom but thankfully highly competent pop-up GUIs for the various

functions including loading files and selecting display modes. The simplicity of the interface is deceptive as there's a great deal on offer behind the plain face. What you see up front is exactly what you'd expect, plenty of extremely DPaint-like draw mode tools (except on the left of the screen).

Each of the icons on the tool bar have various settings which are accessed with a right mouse button click upon them. All the usual items are here such as fill types, gradients, patterns, shape and adjustment of the air-brush, type and style of fonts and new for 7.0, selecting of an ARexx Macro.

The latter has moved onto the tool bar in an icon the shape of the ARexx crown logo. The ARexx interface to PPaint itself has had a major revamp since 6.x and now has ARexx commands. Obviously this is only of use to an ARexx head but given some of the superb ARexx examples provided it goes to show what can be accomplished by programming PPaint direct. Given the functions PPaint possesses it would be possible to perform complex batch processing operations akin to what would normally be done in an expensive image processing package such as Image FX. For instance, there's a great 'Catalog' script



▲ The results of two of the most impressive ARexx scripts. The Catalog script created the page of thumbnails from a directory of pictures and the Whirl Text created the anti-aliased spiral text.

provided that generates images full of thumbnails of pictures in a directory. This is a great feature and there's nothing to stop you from adding more or at least modifying existing scripts.

JPEG internally

Version 7.0's retains the I/O modules, allowing other image formats to be added later, but it now incorporates JPEG internally rather than using a Datatype. It's a very fast loader and, as usual, PPaint converts the 24-bit images down to a colour map extremely well. PhotoCD support is now also integrated and is superb. It has the facility to load the PhotoCD overview files for the thumbnail screens and the PCD images in all of their resolutions. One niggle I have with it though is that the resolutions are tagged as 'types'. I'd rather see the resolution displayed as you change mode. In one step it's possible to load a PhotoCD, convert it to 256 colours and scale it to fit a screen mode. This is damn handy and a very real alternative to professional scanning.

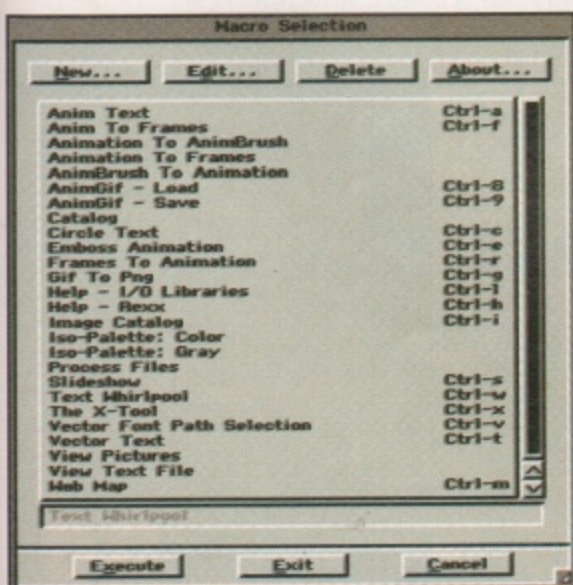
The loader also has support for the third-party shareware 'Superview' system which has a

library of loaders for various picture formats. In this way it's possible to import virtually every image format going around. Colour conversions and image processing on whole images or brushes can take a very long time though. Cloanto told us this was a side effect of working with indexed colour images and not the 24-bit originals.

A subject that's dear to my heart, Internet Web sites, has much more specific support since 7.0. This may have been due to previous versions already being a close to ideal tool for this kind of work. One seriously neat function is the ability to handy AnimGIFs. PPaint's animation features are basic though well thought out and easy to use. The actual mechanism for loading and saving AnimGIFs is accomplished through provided ARexx scripts though sadly they didn't cope very well with loading AnimGIFs which have only a part of the frame animated, something Cloanto promises to fix.

Web site

Transparency handling is another issue which is important for



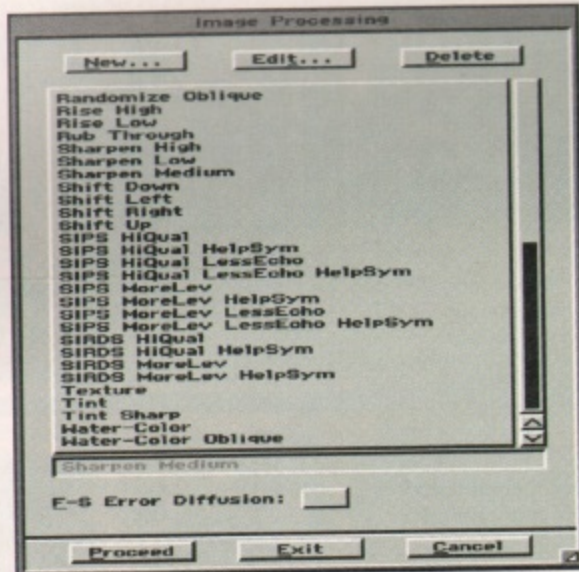
▲ No shortage of ARexx scripts provided as standard but the real power will come from rolling your own.

creating pictures suitable for Web sites. PPaint now handles saving transparent GIFs internally rather than a freeware I/O module which previously had to be obtained elsewhere in 6.x. Brush handling and manipulation tools are first rate; shift the handle point with Handle Custom to somewhere on the brush, select 'Make New' transparency or flood transparency and so on until only the part of the image remains which is desired. It saves buckets of work if this needs to be performed regularly.

Grabbing of a screen from PPaint 6.x was handy enough but now 7.0 will grab any AmigaOS window straight into a brush! This function is wonderful for taking screenshots for publishing. However, more mainstream users could include grabbing from render windows of things like Clouds and other Unix graphic tools which have no (or useless) savers of their own.

Less is more

A function that's not new to 7.0 but which is worth mentioning anyway, is the less colours options. This counts all of the pixels on the screen and presents a slider with the amount of colours present. It's possible to move the slider down and it will upload to tell you how many colours and what percentage of the image's pixels will need to be changed. Combined with either PPaint's two qualitative and quantitative methods of colour reduction, a graphic image can be reduced to the bare minimum number of colours required. After that, pens can be

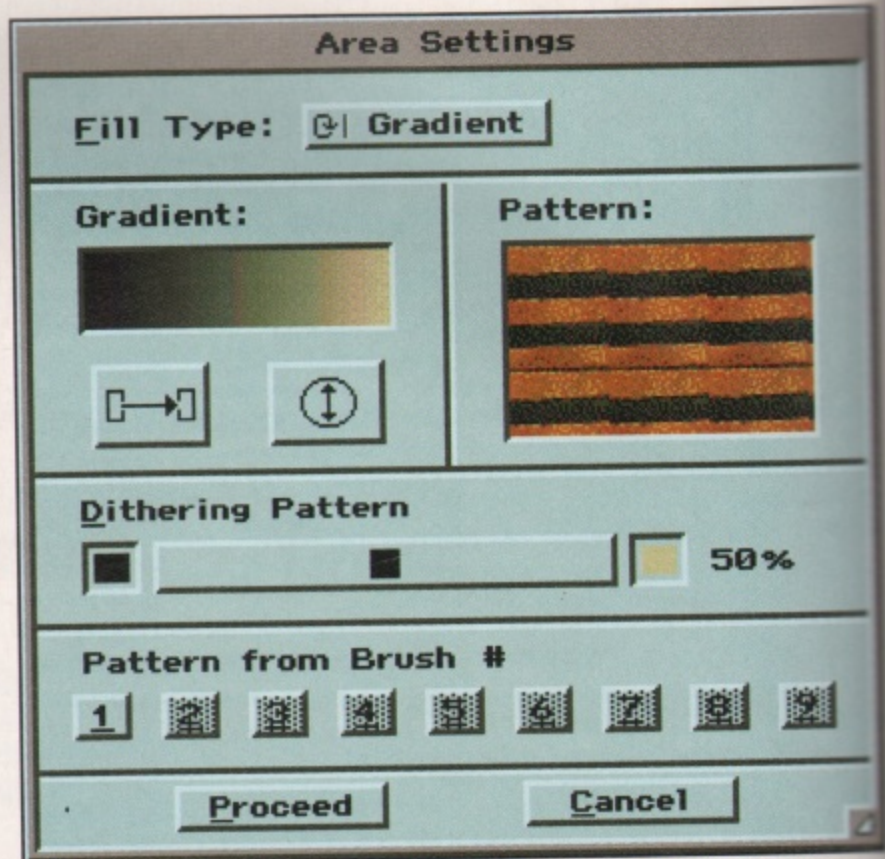


▲ No shortage of image processing options either. Many of these are for those weird 3D stereograms.

moved around the palette and the picture remapped etc. This was how we created the CU Amiga Magazine team Worms map from a true colour scan without using dithering.

CyberGraphX

Another reason I get on with PPaint is its tolerance of running under my CyberGraphX RTG system. Version 7.0 has improved on the compatibility level with noticeable improvement in the magnifying glass operating and such forth. It still has a long way to go though. By default PPaint seems to steal chip memory for operations which it shouldn't need to. This only slows things down to a crawl on a heavily accelerated system. I found this could be avoided by tweaking my CGraphX settings to force planes to fast memory and so on. Despite telling PPaint to use the CPU instead of the Amiga blitter, moving brushes around the screen was many times slower



▲ The Area settings shows the options for a full brush be it a smooth gradient or a brush pattern. You can alter the dithering also here.

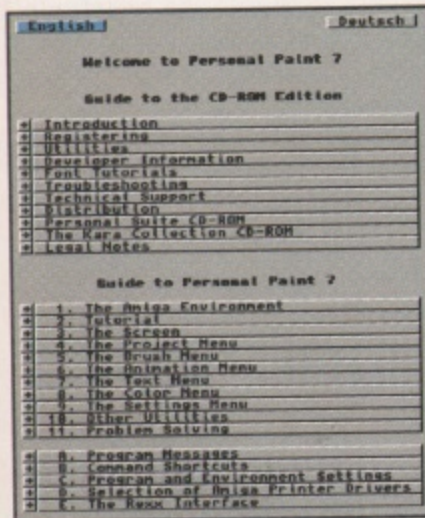
than on the Workbench with MCP's solid move hack so I know it can be done faster. PPaint's on-line documentation is of a generally high standard though the pages of the AmigaGuide are too long with not enough breaks for easy navigation. With more and more Amiga companies opting for electronic documentation I find myself wishing some more effort was spared on it.

The online documentation can't be easily moved onto hard drive unless the whole CD is installed and will consume 60MB of HD space which is a bit silly. These things are minor compared to my main gripe with the documentation which is that there

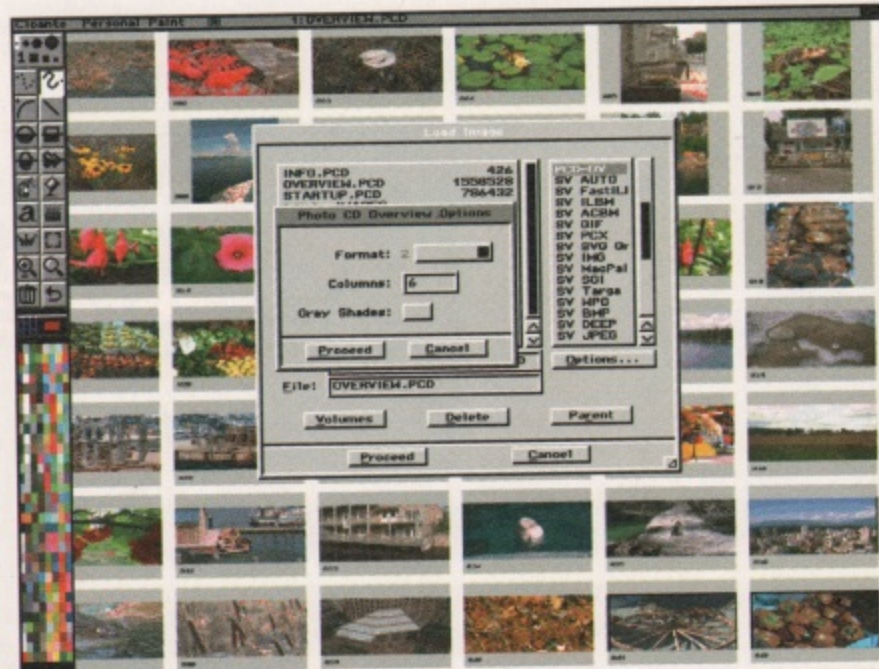
is no index, the lack of which forced me to load all of the AmigaGuide into a text editor so I could do a 'search for' function. Ouch.

Overall PPaint is a superb package if it's geared at what you want to do. It's not the best option for serious artistic work but to combine basic paint and animation package functions with image processing, excellent colour control, superb ARexx support and good behaviour under RTG is very handy for some users. For Web work alone it can't be beaten. If only the documentation and RTG support was shored up, not to mention the addition of truecolour then this could be the premier package on the Amiga. As it is, it's still a quality package which is highly worthy of a purchase. ■

Mat Bettinson



▲ Here's the AmigaGuide documentation for PPaint. Well documented but an index would have been nice.



▲ PPaint's PhotoCD loader can not only cope with single pictures but also the overview file seen here which has a choice of two resolutions but can also be scaled to whatever the current screenmode is.

PERSONAL PAINT 7.0

system requirements:
OS 2.0 and CD-ROM required

ease of use 89%
Straight forward operation but the documentation needs some more work.
performance 88%
Very good but would benefit from extra performance and features.
value for money 90%
Particularly good value for money when you consider what's on offer.

OVERALL
Excellent specialised graphics package gets even better. **89**



MAXELL DISKS AT BULK PRICES

GREY-TRONICS LTD



LOWEST PRICES

BEST SERVICE

RAPID DELIVERY

SALES FREE CALL 0500 737 800
OTHER ENQUIRIES 0181 686 9973 / 0181 781 1551

3.5" DISKS

100% CERTIFIED ERROR FREE DISKS & LOCKABLE BOXES

MAXELL DS/DD	DS/HD	
10 3.5" Disks.....£4.75	.....£5.99	+ 10 see through box.....Add £1.00
30 3.5" Disks.....£10.99	.....£9.99	+ 100 cap lockable box.....Add £4.00
50 3.5" Disks.....£16.99	.....£17.99	+ 100 cap lockable box.....Add £4.00
100 3.5" Disks.....£28.99	.....£28.99	+ 100 cap lockable box.....Add £4.00
150 3.5" Disks.....£39.99	.....£41.99	+ 2 x 100 lockable box.....Add £8.00
200 3.5" Disks.....£51.99	.....£51.99	+ 2 x 100 lockable box.....Add £8.00
500 3.5" Disks.....£123.99	.....£126.99	+ 5 x 100 lockable box.....Add £17.50
1000 3.5" Disks.....£239.99	.....£239.99	+ 10 x 100 lockable box.....Add £30.00

FREE LABELS + FREE DELIVERY BY PARCEL FORCE

MAGIC PACK INCLUDES

- Amiga A1200 Computer - 2Mb RAM
- 3.5" Floppy Disk Drive Built-in
- Wordsworth v4 SE - Word Processor
- Digital Datasort v1.1 - Database
- Digital Organizer v1.1 - Personal Organizer
- Turbo Calc v3.6 - Spreadsheet
- Personal Paint v6.4 - Paint Package
- Photogenics v1.2 - Pixel Editing
- Whizz - 3D Platform Game
- Pinball Mania - Pinball Arcade Game

STANDARD PACK 2Mb - NO HD	170Mb HARD DRIVE PACK
£369.99 Inc. VAT	£469.99 Inc. VAT

STARTER PACK: Top quality Joystick, A1200 dust cover, Deluxe mouse mat, disk head cleaner, 10 disks **ONLY £18.00**

NEW A1200 SURFER PACK
 Inc. 260Mb Hard Drive + 14400 Ext. Modem Comes with Magic Pack software but pre-installed on HD.
SHOULD BE BACKED BY USER AS NO ORIGINALS ARE SUPPLIED
£545

Optional Extra... CHAOS SOFTWARE PACK
 Includes 4 EXCELLENT Titles:
 CHAOS ENGINE - AGA.....£25.99
 SYNDICATE.....£34.99
 PINBALL FANTASIES - AGA.....£29.99
 NICK FALDO'S GOLF - AGA.....£34.99
 CHAOS PACK (Combined original RRP).....£125.99

ONLY £12
 When Purchased with A1200
 As long as stocks last

HARD DRIVES

INTERNAL 2.5" + CABLE + SOFTWARE

80Mb 2.5".....£79.99	250Mb.....£124.99
120Mb 2.5".....£89.99	340Mb.....£139.99
170Mb 2.5".....£109.00	520Mb.....£200.00

INTERNAL 3.5" + FITTING KIT + S/WARE
 FREE Opus 4.12 + 7 disks FULL of essential software.
 1 Gb + Full Kit.....£179.99 1.2Gb + Full Kit.....£199.99

CD-ROM DRIVES

Dual speed Reno CD W/T Squirrel.....£147.99
 Dual speed Compaq CD W/T Squirrel.....£139.99

INKJET CARTRIDGES AND REFILLS

HP Deskjet 500C/5000/560C Black.....	£22.99
HP Deskjet Black Refill.....	£7.99
HP Deskjet 600/660C Black.....	£22.99
HP Deskjet 500C/560C/600/660C Colour.....	£25.99
Canon BJ10/200 Black.....	£16.99
Canon BJ10/200 Black Ink Refill.....	£7.99
Citizen Project IIC Colour.....	£34.00
Citizen Project IIC Mono.....	£20.50

Add £2 for delivery

PRINTERS

INK JET - DESKTOP & PORTABLE

CANON BJC 210 COLOUR
 • Prints up to 4 pages per min colour
 • Built in smoothing function giving an effective 720 x 360dpi mono & 360 x 360dpi colour
 • Built in sheet feeder 100 sheets
 • 3 Years warranty
£164.99

CANON BJC 4100 COLOUR
 • Prints up to 4.5ppm colour
 • 720 x 360 dpi colour print & mono print
 • 100 sheet automatic feeder
 • Print on various media A4, B5, A5.....
 • 3 Years warranty
£229.99

CANON BJC 610 COLOUR
 • Maximum resolution 720 x 720dpi
 • 4 colour, 4 cartridge system
 • Monochrome printing 1.6ppm
£359.99

Canon BJ30 mono printer for home or portable use...£144.99
 Canon BJ70 colour printer for home or portable use...£194.99
 Hewlett Packard 400 colour...£159.99
 Hewlett Packard 600 colour...£189.99
 Hewlett Packard 690 colour NEW...£259.99
 Hewlett Packard 870 colour NEW...£399.99
 Hewlett Packard 820 colour...£339.99
 Epson Stylus colour 500 NEW...£294.99
 Epson Stylus colour 200 NEW...£179.99

ACCESSORIES

AMIGA CABLES

Amiga to TV Scart.....	£10.99
Amiga to Sony TV.....	£10.99
Amiga to Amiga (Parrot/Null modem).....	£10.99
Modulator overhang lead 23M/23F.....	£11.99
Joystick Splitters.....	£5.99
Joystick Extension Lead 10ft.....	£5.99
Printer Lead.....	£4.00

DUST COVERS

Amiga 1200/500/500P/600.....	£4.00
Microvitec/Phillips Monitors.....	£4.00
Star/Citizen/Panasonic Printers.....	£4.00

ACCESSORIES

Amiga Disk Drives Free Direct Opus 4.12...£39.99
Amiga Mouse (Top Quality).....£11.50
Internal Drives A500/A500+/A600/A1200.....£34.44.00
TV Modulator (2 yrs warranty).....£34.00
Deluxe Mouse Mat.....£1.99
1000 Labels.....£8.99
3.5" Disk Head Cleaner.....£1.99
Python 1M Joystick.....£8.75
CD32 to Amiga 1200 inc. software.....£29.99
Competition Pro Pad.....£15.99
Keyboard for CD32 (Require 55X1).....£37.99

ADD £2 FOR DELIVERY

TOP QUALITY RIBBONS

BLACK

Amstrad DMP 2000/3000.....	£3.00
Amstrad DMP 4000.....	£3.66
Amstrad POW8256/8512/LQ5000.....	£3.00
Amstrad 9512.....	£3.50
Citizen 1200/LSP10/Swift 24/9.....	£2.85
Epson LQ100.....	£4.10
Epson LX80/86/90.....	£2.50
Epson LQ400/500/800/850.....	£3.45
Epson FX/INX/RX80/LX800.....	£3.45
NEC Pin Writer P2200.....	£3.50
Sekissha SSP1200/1600/2000.....	£4.00
Panasonic KOP1123/1124/1180.....	£3.30
Panasonic 2135.....	£3.25
Panasonic KOP2123/2180.....	£4.00
Star LC10/20/100.....	£2.99
Star LC200.....	£3.50
Star LC2410/24200.....	£3.00

COLOUR

Citizen Swift 24.....	£12.99
Panasonic 2135/2123/2180.....	£13.99
Star LC10/20/100.....	£7.00
Star LC200.....	£12.30
Star LC2410/24200.....	£12.50

ADD £2 P&P

MAGNUM RAM UPGRADES & ACCELERATORS

FREE OPUS 4.12 RAM BOARD	0MB	4MB	8MB	16MB	32MB
RAM BOARD & 33Mhz	49.99	87.99	109.99	N/A	N/A
68030/25Mhz & FPU	79.99	117.99	139.99	N/A	N/A
68030/40Mhz & FPU	99.99	137.99	167.99	199.99	269.99
68030/40Mhz & FPU	129.99	164.99	189.99	229.99	299.99
68030/50Mhz	149.99	184.99	209.99	254.99	324.99
68040/25Mhz	169.99	207.99	237.99	277.99	339.99
68040/40Mhz	249.99	287.99	314.99	354.99	419.99
68040/50Mhz	329.99	367.99	394.99	434.99	499.99
68060/50Mhz	499.99	537.99	567.99	609.99	677.99

SCSI II INTERFACE 33Mhz PLCC FPU 79.99 35.00

PCMCIA Compatible for use with overdrive or CD/Zappo CD Rom or Squirrel. Zero wait state design.

MONITORS

Amiga M14385.....	£287.99
Microvitec 14" + Free speakers & Amiga adaptor.....	£274.99
Hitachi or Panasonic Monitor/TV.....	£174.99
Amiga 15" (1540S).....	£359.99
Microvitec 17" (170S).....	£529.99

SUPERHIGHWAY MODEM

AFFORDABLE, FAST 33,600 bps, 5 years warranty - CE & BAST approved

- Up to 134,400 bps using MNP5/4 & V42 bit
- Data compression and error correction
- Class 1 & 2 Fax Interface
- Strong metal external case & Front panel LEDs

£119

ORIGINAL AMIGA SURFWARE
 Software pack 30 days free trial with Demon
 • Suit all your modem needs
 • Net software * E-mail
 • Web Browser * IRC etc.
£29.99

Amiga Surfware pack when purchased with any modem £19.99

GP Fax Software £44.99
 Send & receive fax with Fax/Modem

PHONE LINE EXTENSION CABLES - 3M £3.99 - 5M £5.99 - 10M £6.99 - 15M £7.99
 Dual Socket Adaptor £3.99 - Modem cable £10.99

UK & INTERNATIONAL DELIVERY SERVICES - (BFO ORDERS WELCOME + SURCHARGE)

LAND (Truck icon)

AIR (Plane icon)

SEA (Ship icon)

Map showing locations: WHITGIFT CENTRE, ELECTRIC EDGE, LONDON, OXFORD.

A500/500+/600 UPGRADES

A500 up to 1Mb including clock.....	£24.99
A500+ up to 2Mb including clock.....	£28.99
A600 up to 2Mb including clock.....	£39.99

FINANCE AVAILABLE PLEASE CALL

ALL PRICES INCLUDE VAT & DELIVERY (unless otherwise stated). Delivery within 3 days (UK MAINLAND ONLY). ADD £10.00 FOR NEXT DAY DELIVERY CALL OR SEND CHEQUES/POSTAL ORDERS TO:

GREY-TRONICS LTD, UNIT 1015 WHITGIFT CENTRE, CROYDON, SURREY CR0 1UU

SALES HELPLINE: 081-686 9973 Mail order prices only FAX: 081-686 9974
 All offers subject to availability. E&OE. Prices/Pack details may change without notice. Please allow 6 working days for cheques to clear.

Mon-Sat: 9-6pm Thurs: 9-8pm Sun: 11-5pm

Weird Science


Weird Science Ltd. 1 Rowlandson Close, Leicester, Leicestershire. LE4 2SE
 Tel. +44 (0)116 234 0682 Fax. +44 (0)116 235 0045
 email. sales@weirdscience.co.uk or tech@weirdscience.co.uk

**TRADE ENQUIRIES
 MOST WELCOME
 AVAILABLE FROM ALL
 GOOD STOCKISTS**

£34.99

AMINET SET 3


Aminet Set 3, dated July 1996, consists of 4 gigabytes of software in 9,000 archives. The software is on four compact discs and has included the full versions of Imagine 4.0, XiPaint 3.2, Octamed 5.0 and some commercial games. With 95 megs Utilities, 79 megs Documents, 408 megs Text Software, 12 megs Disk/HD Tools, 7 megs Hardware related, 756 megs Pictures & Animations, 208 megs Graphics software, 394 megs Graphics & Sound Demos, 563 megs Games, 685 megs Music modules, 28 megs Music software, 131 megs Communications and more. In fact the contents of Aminet CD's 9 to 12.



£19.95

SYSTEM BOOSTER

The Amiga System Booster CD enables users to really make the most of their computers with a superb collection of tools to push the capabilities of the Amiga to the limits. Nearly all the fantastic utilities can be started by simply direct from the compact disc. No de-archiving required. The contents include a vast collection of screen blankers, mouse tools & commodities, backup, file management, cache programs to optimise system performance, data recovery, CD-ROM utilities, virus killers and a whole host more. This CD-ROM provides for beginners and professionals.



£49.95

MAGIC PUBLISHER

Magic Publisher comprises of four compact discs on this unique CD-ROM set you will find all you need to create professional looking documents. There are more than 10,000 Fonts (Colour Fonts, Bitmaps, Intellifonts, TrueType & DMF), more than 5,000 graphics, and more than 100,000 words. Many of these are exclusive to this compact disc. Commercial versions of Final Writer 4.0, Wordworth 4 TD are included. Both rated as word processors on the Amiga. Tools for creating pages along with backgrounds and special effects for this purpose is also included. A 166 page book contains printouts of all the fonts and graphics.



£29.95

AMINET SET 2

Aminet Set 2, dated November 1995, consists of 4 gigabytes of software in 12,000 archives. The software is on four compact discs and has included the full contents of Aminet CD's 5 to 8. With Utilities, Documents, Text Software, Disk/HD Tools, Hardware related, Pictures & Animations, Graphics software, Graphics & Sound Demos, Games, Music modules, Music software, Communications, Amiga Development software, Business software and more. All of the archives are easily accessible with a simple Index menu system allow easy unarchiving with complete search and find facilities.



£14.99

AMIGA DEVELOPERS CD

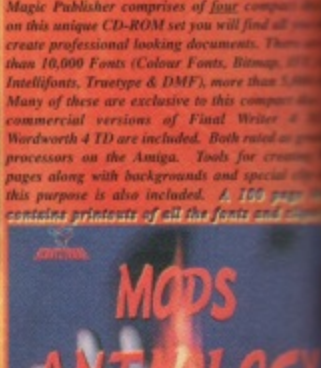
The Amiga Developers CD from Amiga Technologies comes complete with all the developers tools and docs, provided to the official developers. Included are the complete CD32 developers tools with Build CD and ISO CD, Envoy 2.0 package, Enforcer, Workbench 2.0, 3.0, 3.1 tools and documents with the updated native developers kit, SANA II package and the installer package. Also included is a vast amount of info. A must for Amiga enthusiasts.



£19.95

MODS ANTHOLOGY

A collection 18,000 music modules arranged of four compact discs sorted by composer, groups and more. All stored ready to use from the compact discs. Provided with 11 megs of Modlists and 25 megs of module player, many different computer platforms. This 7 years titanic work provides over 1,000 hours of music enjoyment with information on many of composers whose work is featured.



£29.95

AMINET SET 1

Aminet, the Worlds largest collection of freely distributable Amiga software. Up to 10,000 users access the archives every day and countless programmers publish directly via Aminet. This CD-ROM collection, on four compact discs contains approx. 4 gigs of in 12,500 archives. Set 1 contains the contents of Aminet CD's 1 to 4. Categories include Utilities, Documents, Text Software, Disk/HD Tools, Hardware, Pictures & Animations, Graphics & Sound Demos, Games, Music, Communications, Development, Business software and more. Index facilities also included.



£49.95

AMIGA REPAIR KIT

The Amiga Repair Kit CD comes complete with the all with all the tools required to backup and rescue your precious data on hard drives. Disk Scribe 4 will rescue and restore most damaged, corrupt and even deleted files from floppies, hard disks etc. During the process it will attempt to fix all problems caused by software failures or physical damage. EDB-Scribe 1.1 is a superb program that will allow you to restore your valuable data even if the Rigid Disk Block has been destroyed or over written. Recovery can recover files from normal or corrupted disks. Essential Amiga Tools.



£19.95

MODS ANTHOLOGY

A collection 18,000 music modules arranged of four compact discs sorted by composer, groups and more. All stored ready to use from the compact discs. Provided with 11 megs of Modlists and 25 megs of module player, many different computer platforms. This 7 years titanic work provides over 1,000 hours of music enjoyment with information on many of composers whose work is featured.



£14.99

AMINET 14

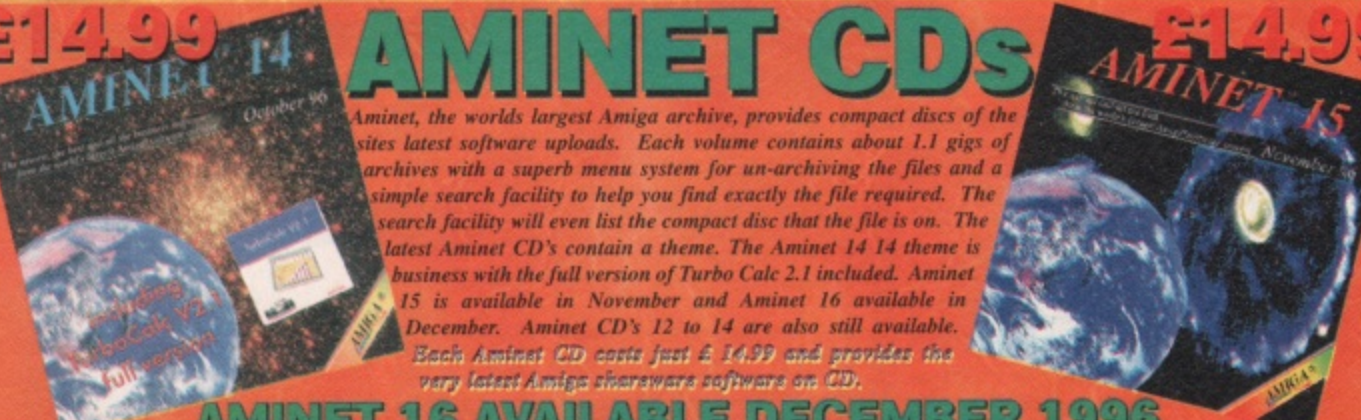
AMINET CDs

£14.99

AMINET 15

Aminet, the worlds largest Amiga archive, provides compact discs of the sites latest software uploads. Each volume contains about 1.1 gigs of archives with a superb menu system for un-archiving the files and a simple search facility to help you find exactly the file required. The search facility will even list the compact disc that the file is on. The latest Aminet CD's contain a theme. The Aminet 14 14 theme is business with the full version of Turbo Calc 2.1 included. Aminet 15 is available in November and Aminet 16 available in December. Aminet CD's 12 to 14 are also still available. Each Aminet CD costs just £ 14.99 and provides the very latest Amiga shareware software on CD.

AMINET 16 AVAILABLE DECEMBER 1996



Meeting Pearls 3 (Software Collection) £ 9.99

Workbench Add-on CD (Utilities) £ 24.95

Giga Graphics Four CD-ROMs Image Collection £ 19.95

Xi-Paint v. 4.0 24 Bit Image Manipulation £ 49.95



SCHATZTRUHE

GTI

Grenville Trading International GmbH
 Carl-Zeiss-Str. 9
 79761 Waldshut-Tiengen, Germany
 Tel. +49 7741 83040
 Fax +49 7741 830438
 Email: amiga@gtigermany.com



£17.99

EURO CD VOL. 1

The Euro CD contains a vast variety of programs and data for the Amiga in the Aminet mould. However this CD differentiates itself by have the contents ready to run without de-archiving. The contents include Animations 36 megs, Commercial 21 megs, Demo's 65 megs, Disk tools 12 megs, Fonts 12 megs, Games 57 megs, Misc. 6 megs, Modules 110 megs, Music 21 megs, Objects 12 megs, Pictures 118 megs, Presentations 23 megs, Printer 1 meg, Programs 23 megs, Samples 4 megs, System 10 megs, Text files 26 megs, Utilities 16 megs and Vidules 3 megs. Full English docs. and menus.



The Global Amiga Experience

Global Experience Commercial Demos Software £ 24.95

Art Studio 24 Bit Paint Package £ 39.95



Weird Science

IN-TO-THE-NET

INCLUDES OUT-OF-THE-NET FREE

Getting an Amiga connected to the Internet is one of the most difficult tasks due to the complex installation routines of AmiTCP and the lack of any real guidance. Not only will this situation change but you will now be able to get connected to the Internet and the WWW without a hard drive or the complicated setting up of the software. Our extensive networking skills have really been put to the test providing a simple connection from a compact disc providing a pleasant introduction and connection to the internet. Most of the difficult setting up is done automatically for you with the connection program provided. All that is required is the answers to a few simple questions. In addition the CD contains all the tools required for both the beginner and expert, full instructions on getting connected and many very helpful documents on the Internet and WWW. The tools include AmiTCP, Mail, FTP, WWW and many more. In addition there is a section on WWW page creation with clip art and creation tools. Easy Hard Drive installation possible but not required.

£19.95

Wondering what all this World Wide Web is all about, worried about expensive connection and telephone bills, concerned that it may not be for you. Well check it out without the connection or telephone charges with "Out-of-the-Net". This compact disc contains the contents of actual WWW sites for you to browse with the Amiga browser provided, no online costs at all. It is all included ready to run directly from the compact disc. The CD acts as a pseudo Internet provider with the sites readily available on the compact disc. There is a diverse variety of sites and subjects covered to give an excellent feel for the WWW whilst you browse for free.

UPGRADES AVAILABLE

- IBrowse (Full Version) £24.95
- Miami Registration £24.95

ANY ONE FREE WITH EVERY £25.00 SPENT

INSIGHT DINOSAURS, GUINNESS DISC OF RECORDS, INSIGHT TECHNOLOGY OR PANDORAS CD

FABULOUS MULTIMEDIA FOR ALL THE FAMILY!

PLEASE ASK FOR FREE CD OR IT WILL NOT SHIPPED

£19.95

A MAGICAL JOURNEY THROUGH EXCITING DIVERSE SUBJECTS

The Learning Curve CD presents a fantastic and magical journey through exciting subjects brought together for the first time on an Amiga CD. Containing over 32,000 files this title will delight and interest both young and old with the vast diversity and quantity of Amiga Educational and Informational programs featured. All of the programs can be run directly from the compact disc with no unarchiving on any Amiga (Workbench 2.04+). Encyclopedias have been virtually non-existent, well now you have a unique CD providing productive entertainment for all ages. *Just a few of the categories:*

Aircraft	Educational	Religion
Art	Fairy Tales	Science
Computer	Mathematics	Astronomy
Desktop Units	Spelling	Biology
Electronics	Languages	Books
Engineering	Literature	Chemistry
Geography	Drama	Ecology
Health	Music	Geology
History	Mythology	
Hobbies	Philosophy	

THE LEARNING CURVE

£34.99

SOUNDSTUDIO

SoundStudio has arrived. With fabulous new features including full mixing facilities, save modules as samples, notation editor (with printing), 64 channels, new midi commands, more Toccarta support, no sample size limits, fastmen facility and more. SoundStudio has lifted Amiga music creation to new heights. A must for all musicians.

£19.95

SOUNDS TERRIFIC 2

The music and sounds files can be auditioned from an easy to use interface for both a PC & Amiga. Included are 4,400+ modules, 400 extra large modules (over 300k each), 795 Screamtracker modules, 1,000+ categorised midi files, 4240 IFF samples, 620 categorised WAV samples, 1,000+ Walkabout Instrument samples in WAV & IFF formats, 100's of utilities for Amiga and as a bonus the complete MidiCraft collection of Midi files. Now includes Octamed & CD FREE.

£14.99

NETWORK CD 2

The very best in CD32 and Amiga Networking has just got so much better. This CD is an absolute must have for all Network CD owners. The concept and operation has been improved in every possible way. The CD32 boots in about 45 seconds, with more memory available and faster just goes to improve speed. One button press on the Amiga can set-up any program to run on both machines, including the entire Serenet set-up on the speed of your choice on both machines. No more difficult set-up routines. Serenet now runs at various speeds and is now the fastest ever. A keyboard and mouse can be emulated on the CD32. Twin Express can now be controlled from DOpus. Serenet allows easy downloading of data. Plus so much more. The best way to join a CD32 is on Amiga.

£14.99

DEM ROM

The Dem Rom CD contains over 1,000 digital elevation maps (DEMs) from the USGS. Along with these digital elevation maps are thumbnail renderings of their topographical maps in Jpeg format for easy previewing. Dem Rom originally appeared on Light Rom 3. The digital elevation maps can be used with any program that accepts the DEM format such as Vista Pro, Scenery Animator or World Construction Set to create beautiful still images or fantastic flights through your favourite scenery. DEMs are royalty free.

£19.95

MULTIMEDIA BACKDROPS

The Multimedia Backdrops CD contains 100 backdrops designed for Desktop Video and Multimedia work in the IFF24, TARGA and TIFF file formats in NTSC (752x480) and PAL (768x576) resolutions. The INDEX directory provides thumbnail renderings of all the backdrops for easy previewing. Fabulous quality images.

£14.99

WEIRD TEXTURES

Featuring a massive one thousand and seventy eight 256 x 256 pixel textures. Each detailed texture tile can be tessellated to create images with absolute seamless edge to edge matching. Superb for wrapping around any complex object perfectly or adding instant backdrops for WWW pages etc. Finding the right texture is easy with a 24 page colour index booklet displaying all of the textures in their glorious colour. The images are in IFF, GIF, JPG, TGA & PICT formats.

£19.95

LIGHT ROM GOLD

The very best from Light Rom 1, 2 and 3 with over 6,000 Lightwave objects and scene files. Light Rom Gold was created for those who did not purchase Light Rom 3. The material on Light Rom Gold is compatible with all versions of Lightwave on all platforms. This material is presented using the content directory method for all users of Lightwave 4.0 and higher. All of the Lightwave objects and scene files are represented with thumbnail renderings for easy previewing.

£19.95

IMAGINE PD 3D

Imagine PD 3D consists of thousands of Imagine 3D objects created by it's Amiga and PC users from around the world using Imagine 1.0 up to Imagine 4.0. The objects fall into many different categories including Anatomy, Animals, Aviation, Botany, Buildings, Computers, Fonts, Furniture, Household, Kitchen, Land, Logos, Misc., Music, Phones, Robots, Ships, Space, sports, Video, Vehicles, Weapons and many others! Creating the objects is the hardest part of the 3D rendering so ensure the drudgery out of 3D.

£29.95

LIGHT ROM 4

LIGHT-ROM 4, a 2 CD-ROM set for the Amiga, Mac, Windows / NT features all new Lightwave objects and scene files. In addition there is a bonus CD-ROM of 3,000 Jpeg Textures, see below. LIGHT-ROM 4 also includes a collection scene files by Alan Chan. This set contains wholly new material and is an absolutely superb resource for Lightwave.

£14.99

3000 JPEG TEXTURES

The 3,000 Jpeg Textures CD contains over 3,000 textures in the Jpeg format. There are thumbnail renderings of every texture for easy previewing. The textures cover all categories including Brick, Bump Maps, Carpet, Cloth, Fabric, Formica, Granite, Greenery, Images, Marble, Organic, Rock, Skin, Stone, Stucco, Tiles and Wood. Realistic high quality textures for a variety of uses are provided in the universal Jpeg format.

£19.95

MULTIMEDIA EXPERIENCE

The award winning Multimedia Experience provided for users to create their own stunning multimedia presentations with images, text, video and sound. With the new low price all users can start multimedia.

£29.95

IBROWSE

The fully featured World Wide Web browser, IBrowse makes surfing the net with your Amiga a breeze. Supports HTML 1, 2 & 3 as well as Netscape extensions. Caches pages, uses MUI (included) fully compatible with In-To-The-Net. Works with any video card and will support external datatypes for sounds, animations and video.

3D Objects 1 £9.99	3D Objects 2 £9.99	UPD Gold (4 CDs) £19.95	Clip Art CD £9.99	Retro Gold Emulators £19.95
Assassins Volume 1 £9.99	Assassins Volume 2 £19.95	Multimedia Toolkit 1 £9.99	Multimedia Toolkit 2 £19.95	Amos PD CD £19.95
Specy 96 Latest £19.95	CBM 64 Latest £19.95	Emulators Unlimited £19.95	Card Games (Brand New) £14.99	GFX Sensations £19.95
Insight Dinosaurs £19.95	World Atlas AGA only £29.95	Movie Maker Special FX £29.95	Nexus Pro £9.99	Ultimedia 3 & 4 CDs £9.99
17 Bit Encounters £14.99	17 Bit 5th Dimension £19.95	17 Bit Phase 4 £14.99	17 Bit LSD CD 3 £19.95	PD Soft Hottest 6 £14.99
NFA AGA Experience £14.95	NFA AGA Experience 2 £19.95	NFA Utilities Experience £14.99	MWB Enhancer £9.99	Meeting Pearls 3 £9.99
PD Soft Utils 2 Double CD £19.95	Light Rom 3 Triple Pack CD £19.95	Zoom 2 Latest Version £14.99	Scene Storm Demos £19.95	Sci-Fi Sensations 2 Double CD £19.95
Oh No More Worms Vol. 1 £9.99	Epic Encyclopedia £29.99	Octamed 6 CD £19.95	Insight Technology £19.95	Guinness Records £19.95

AMINET CD SUBSCRIPTIONS

EACH AMINET CD FOR ONLY £9.99 UPON RELEASE BY JUST REGISTERING FOR A SUBSCRIPTION. AS EACH NEW CD IS RELEASED WE WILL CHARGE YOU AND DISPATCH YOUR NEW AMINET CD ON THE DAY OF UK RELEASE

TELEPHONE ORDER HOTLINE

+44 (0)116 234 0682

ACCESS VISA & SWITCH WELCOME
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

Executive 2.0

■ Price: £10/£17 ■ Developer/Supplier: Petri Nordlund



Multitasking is where the Amiga excels. Is it possible to get even better? Yes.

As all Amiga users know, multitasking is where their machine really outshines the rest. It's been doing it for 10 years while, in 1995, others were heralding the addition of this capability as a new thing. So, is it possible that the

Amiga's multitasking capabilities can be improved upon? The makers of Executive 2.0 claim it can.

Rocket scientist

The type of multitasking that the Amiga provides is known as 'pre-emptive prioritised round-robin' multitasking. In simple terms what this means is that every program or fraction of a program which detaches to multi-task is known as a task. CLI processes are tasks themselves, you can view the current ones running by typing Status in the AmigaDOS shell.

For example, if there are tasks of the same priority running, the original Exec will cut between

them and this leads to the term Round Robin. In all it's a competent though simple system which works well on the Amiga. It's been there since the start and developers have learnt to exploit it.

On the other hand, the Unix platform has what's called a task scheduler which without filling pages with more technical details, uses more intelligent methods to decide what task gets what priority and when. The new Executive 2.0 apes this method by playing with the Exec task priorities in real time to implement a proper task scheduler.

Looking good

Presentation wise, the author has gone to a lot of effort to get the package looking good and easy to get around. For example, both MUI and Gadtools versions of the preferences and clients are

Where can I get Exec 2.0?

Send a Eurocheque or Postal Order for £10 (£17 if using a personal cheque) to:
Petri Nordlund, Vanhamaantie 4,
FIN-28800 PORI, FINLAND.

(petrin@megabaud.fi)

State whether you'd like the keyfile Emailed to you or delivered on a floppy disk. The unregistered version of Executive 2.0 can be found on this month's cover CD in the magazine directory.

provided. The only problem which can arise though from using Executive 2.0 is when some tasks which really should not be forced to wait are 'scheduled'. For example, programs which are time critical or any kind of serial access are obvious ones which you should be able to force not to schedule.

The magic wand option in Executive's prefs is very useful when you are defining a new entry as it has settings for most problematic programs. The preferences program also allows you to set the scheduler you want to use. This is handy as there are several different types which have different multitasking algorithms built for various system loads. I tried the other schedulers provided and found that the Super,



Buy at TRADE DIRECT PRICES!

Only from

Marpet DEVELOPMENTS

Leading *British Manufacturers* of RAM expansions to all major distributors and dealers are having a **STOCK CLEARANCE** of A500, A500+ & A600 RAM Boards at **RIDICULOUSLY LOW PRICES!**

MEMORY EXPANSIONS

A500 512k w/o clock	- £11.95	A600 1Mb w/o clock	- £16.95
A500 512k with clock	- £16.95	A600 1Mb with clock	- £24.95
A500 Plus 1Mb	- £15.95	3.5" External Floppy	- £39.95

CD32 S-PORT Network your CD32 and Amiga! Gives you CD32 a keyboard and gives your Amiga a CD-ROM. Simple set-up, fastest Sernet yet for **only £24.95** (comes complete with serial cable and Network CD2 software)

COMBINATION OFFER!

Buy any Ram board and get a 3.5" Floppy Drive for **only £36.95!**



A1200 Ram Accelerator NOW AVAILABLE AT EVEN LOWER PRICES!

Runs at upto **2.95 MIPS** - Uses standard 72-pin simm - Zero Wait State - Optional Floating Point Unit - Real Time Battery Backed

Clock PCMCIA Compatible (upto 4 Mb)

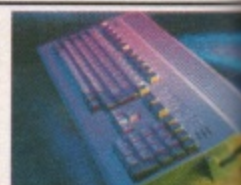
0Mb - £44.95
4Mb - £74.95
8Mb - £94.95

33Mhz FPU - £38.99 Internal Real Time Clock now only £8.95

030, 040 & 060's Also Available - POA

COMBINATION OFFER!

Buy an FPU with a RAM board for **only £34.95**



FREE GIFT!

Call to find out more

Other products available - 4x CD Roms, Hard drives, 030 Accelerator etc...All at *competitive prices*

STOCK CLEARANCE / STOCK CLEARANCE

PAYMENT : Simply call with your ACCESS / VISA / SWITCH or send Cheques /P.O.'s made out to :

Marpet Developments, 57 & 58 Glasshouses Mill, Glasshouses, Harrogate N.Yorkshire HG3 5QH

DELIVERY : Costs just **£2.50 (including VAT)** for insured delivery!

Made in UK!

TEL: (01423) 712600
FAX: (01423) 712601

All items subject to availability & change without notice E&OE

3 YEAR warranty

Queues and the 2.0 Feedback schedulers (provided with the registered version) were enough to fully manage my system.

Finally, there's a number of handy utilities for managing tasks. They range from my favourite 'Top' which displays a simple window showing the top 10 CPU-consuming tasks to the incredible 'Dashboard' client which allows complete control over the GUI elements. Anything Executive 2.0 is capable of measuring, such as CPU time, current loading, memory status and such forth can be included as a GUI element and resized/placed

anywhere within the window. Totally amazing.

Indispensible

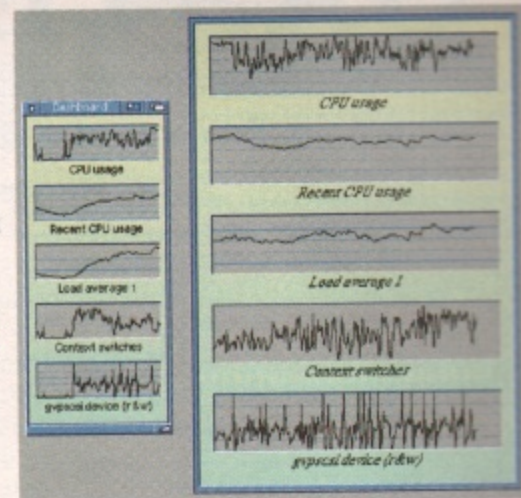
Executive is really about multitasking. People who have tried the shareware version have either complained that it seemed to do nothing or totally loved it. The kind of person who's likely to benefit greatly from Exec 2.0 is an Amiga user who runs many programs at once. For instance, any rendering that you want to do will no longer slow down response time for other programs. Also, the system won't lock up when a very CPU intensive task kicks in.

Everything carries on running as Executive figures out who's had their share of the pie.

Just to satisfy myself that I couldn't live without Executive, I tried disabling it for the first time in many months. Suddenly CLI response was dead slow as my 4000T chugged through various Internet tasks. Other applications stopped and started, presenting a generally jerky response. The machine locked up for a few minutes several times as a background task kicked in to do something and hogged the CPU. It was no fun, I wanted my Executive back!

The tenner that the full product costs is nothing to pay for what you get. Suddenly the Amiga glides along as its best asset is made even stronger. Don't buy it if you aren't something of a power user though, because the simple schedulers provided with the unregistered package can be misleading as to what's on offer. Executive 2.0 comes most highly recommended for power Amiga users, for those people get it now!

Mat Bettinson



EXECUTIVE 2.0

A500 **system requirements:**
OS 2 or higher

A500+ **ease of use**.....95%
It's extremely easy to install, set up and maintain.

A600 **performance**96%
The performance you get is fantastic for Amiga power users.

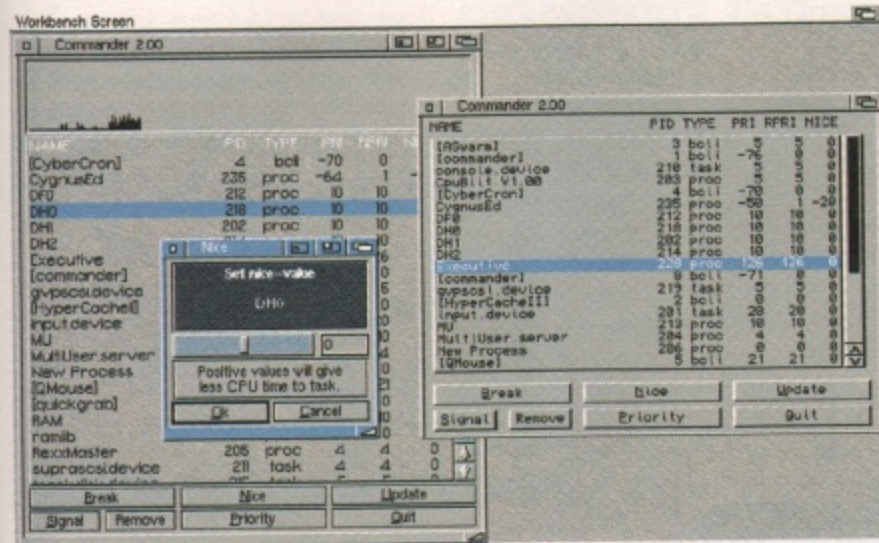
A1200 **value for money**99%
A tenner? Is Petri insane? What top value for money?

A1500

A2000

A3000 **OVERALL**
The best shareware utility ever.

A4000 **97%**



EIDE EXPANSION SYSTEMS



Multi media system incorporated into a stylish CE approved tower unit with built in 200W + PSU, with capabilities of housing and powering up to four IDE devices ie: CDroms, Hard drives and Syquest Removable media etc.....Plus external floppy drives.

PCMCIA and Trapdoor slot is unaffected, still leaving further expansion possibilities ie: Memory, PCMCIA SCSI cards, Genlocks, Modems, Video digitisers etc.

CD32™ compatibility with CD autoboot option. Also reads Macintosh™, CDTV™, Kodak™ Photo CD, PC Cd's including Multi session and audio CD's.

Run Macintosh™ software, including Multimedia, DTP, CD Games etc (requires Macintosh™ Software based emulator ie: Shapeshifter™ or Emplant™)

PC ready, can accept a complete PC setup to use in conjunction with the Gemini System or as a stand alone PC.

Easily and quickly connected and detached for Transportation

MULTIMEDIA STATION II

Multimedia Station complete with
Dual device lead
Quad Speed CDrom
1Gb Hard Drive
CD audio output
AC Power rail
Simply PLUG IN & PLAY
Workbench and cache CDFS II Pre-installed
Multimedia Station II £399.95

MULTIMEDIA STATION IV

Multimedia Station complete with
Quad device lead
Quad Speed CDrom
1Gb Hard Drive
CD audio output
AC Power rail
Simply PLUG IN PLAY!
Workbench and Cache CDFS II Pre-installed
Multimedia Station IV £449.95

TAURUS VIDEO SYSTEM

File Management System
Backs up all your data to video tape whether it be on your Hard Drive, CDrom or Floppy Disk. Handles multiple partitions with ease. Even backs up in long play mode (E180 VHS Cassette) (1.6Gb+ storage). Maximum transfer rate 7Mb/min
Specification
Taurus Interface & cables
Amiga Install disk
Manual
Taurus Video System £39.95

GEMINI SYSTEM

Amiga <> Win95 File System
Allows you to connect your Amiga to PC via serial or parallel port and transfer files between the two machines. All the PC logical drives appear on the Amiga as if they were physically connected. They are accessible from all Amiga programs as they are mounted as actual devices
Specification
Gemini transfer cable
Amiga Install Disk
PC Install Disk
Manual
Gemini System £29.95

D.I.Y. PARTS

- Bare Tower with 200W+ PSU and Power Lead £59.95
- A1200 Quad Device EIDE Leads & Cache CDFS II £79.95
- A4000 Quad Device EIDE Leads & Cache CDFS II £59.95
- Cache CDFSII, Atapi & CD32 Emulation Software £39.95
- A1200 Quad Device EIDE Leads £59.95
- A4000 Quad Device EIDE Leads £39.95
- A1200 Dual Device EIDE Leads £19.95
- A4000 Dual Device EIDE Leads £9.95
- 1 Gb Hard Drive £199.95
- Quad Speed CDrom Drive £59.95
- 8x Speed CDrom Drive £109.95
- Syquest IDE EZ 135 Removable Hard Drive £149.95
- Trailing Lead (Powers A1200 PSU & Monitor) £9.95
- CDDA (CD out) & Audio Leads 2 phono -2 phono £9.95
- Converter for 2.5" hard drive to be fitted in tower £29.95

INTRINSIC COMPUTER SUPPLIES
38 Kings Drive Gravesend Kent DA12 5BJ
TEL: +44 (0) 1474 335294 FAX: +44 (0) 1474 357560
Next Day delivery after clearance of payment (UK) £10.00
Methods of payment: Cheque, Postal Order, Money Order, EuroCheque

GASTEINER TEL:0181 345 6000

18 - 22 Sterling Way, North Circular Road,
Edmonton London N18 2YZ

FAX:0181 345 6868

Open Monday to Saturday 9am to 6pm

OFFER
OF MONTH
4MB
72PIN SIMM
£25.00
INC VAT

MEMORY SIMMS

LOWEST PRICES GUARANTEED

SIMMS FOR A4000, VIPER, APOLLO, MAGNUM, HAWK AND MANY OTHER CARDS PHONE FOR DETAILS TODAY
72PIN 32BIT

2MB	£20
4MB	£29.95
8MB	£39
16MB	£90
32MB	£189
30PIN 16BIT	
1MB	£15
4MB	£50

ACCELERATORS

LOWEST PRICES GUARANTEED

VIPER APOLLO AND MANY OTHER CARDS PHONE FOR DETAILS TODAY

BLIZZARD1230 50MHZ

0MB	£159
4MB	£223
8MB	£268
16MB	£368
32MB	£399

APOLLO

	28MHZ	50MHZ
4MB	£139	£243
8MB	£174	£278
16M	£274	£378

MODEMS

MOTOROLA 28.8 FAX & MODEMS
LIMITED STOCK ONLY

NOW WE ARE SURFING
£129.00

HALF PRICE
FPU
WITH
ANY RAM CARD
FOR A1200

RAM EXPANSION

LOWEST PRICES GUARANTEED

A1200 RAM CARDS WITH
CLOCK & FPU SOCKET

2MB	£59
4MB	£64
8MB	£99

A600 RAM CARD

1MB	£20
1MB WITH CLOCK	£35

A500 RAM CARD

1/5MB	£15
-------	-----

A500 PLUS RAM CARD

1MB	£20
-----	-----

FPU MATHS-COPRO

FPU INCREASES SPEED ON AMIGA RAM CARDS & ACCELERATORS

28mhz	£20
33mhz	£29
50mhz	£59

REMOVABLE MEDIA

SYQUEST

EZ 135 EXT.	£149.32
-------------	---------

IONEGA

ZIPP 100MB	£163.32
JAZZ 1GIG INT.	£299.00
JAZZ 1GIG EXT.	£399.00

SCSI CARD OR SQUIRREL IS NEEDED TO RUN SCSI DEVICES ON AMIGA

CARTS SYQUEST

EZ 135	£16.00
200MB EXT	£349.00
EZ FLYER 230MB EXT	£269.00

IONEGA

ZIPP 100MB	£14.00
JAZZ 1GIG	£75.00

AMIGA 1200 COMPUTER	£359.00
---------------------	---------

AMIGA 1200 170MB HD	£429.00
---------------------	---------

CD-ROMS & CD WRITERS

CD-ROMS

new 2 speed	£116.33
new 4 SPEED	£150.00
NEC 8SPEED	£251.33

CD-WRITERS

4speed	£499.00
RICOH 2SPEED	£429.00

SCSI CARD OR SQUIRREL IS NEEDED TO RUN SCSI DEVICES ON AMIGA

540 2.5" HARD DRIVE
£129.00

MONITORS

MICROVITEC 1438	£259
MICROVITEC 17"	£529

HARD DRIVES

IDE 2.5" HARD DRIVES FOR A600,
A1200 SX1 & SX32

80MB	£65
340MB	£129
540MB	£129
730MB	£169
800MB	£199
1.2MB	£199

COMPLETE WITH SOFTWARE & CABLES

3.5" SLIM IDE HARD DRIVES FOR A4000 &
A1200

420MB	£99
850MB	£129
1.3GIG	£149
1.7GIG	£169
2GIG	£199

COMPLETE WITH SOFTWARE & CABLES

SCSI HARD DRIVES

100MB	£49
250MB	£69
340MB	£75
540MB	£139
1.2GIG	£219
2GIG	£299
4GIG	£499

EXTERNAL SCSI CASE WITH POWER SUPPLY £59
SCSI CARD OR SQUIRREL IS NEEDED TO RUN SCSI DEVICES ON AMIGA

SCSI CARDS

FOR A600 & A1200

SQUIRREL	£50
SQUIRREL SURF	£95
SQUIRREL MPEG	£195

FOR A1500, A2000 & A4000

OCTOGON 4008	£99
--------------	-----

SCSI CARD OR SQUIRREL IS NEEDED TO RUN SCSI DEVICES ON AMIGA

we also sell many consumables phone for details

DELIVERY CHARGES

SMALL CONSUMABLES AND SOFTWARE ITEMS UNDER THE VALUE OF £59 PLEASE ADD £3.50 P&P. OTHER ITEMS EXCEPT LASERS, COURIER SERVICE £10 PER BOX. OFF SHORE AND HIGHLANDS, PLEASE CALL FOR A QUOTATION. IN ADDITION WE OFFER THE FOLLOWING EXPRESS SERVICES: SATURDAY DELIVERY NORMAL RATE PLUS £15 PER BOX, MORNING, NEXT DAY NORMAL RATE PLUS £10 PER BOX, E&OE PRICES ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. ALL TRADEMARKS ACKNOWLEDGED.

WORLDWIDE DELIVERY AVAILABLE.

GOVERNMENT AND MAJOR PLC PURCHASE
ORDERS WELCOME

TRADE ENQUIRY WELCOME.

Blizzard 1240T/ERC

■ Price: £249.95 ■ Developer: Phase 5 ■ Supplier: Blittersoft
 ☎ 01908 261477 <http://blittersoft.wildnet.co.uk>



Before you howl "Oh no, not another accelerator", this one is a little different from the norm. Coming from the Blizzard stable the most notable factor is that it's designed to be used in A1200 tower systems whether it's pre-fabricated or an Amiga enthusiast's DIY effort.

This card is as fast as you can get before stepping into expensive 68060 territory. See the

benchmark graphs shown far right for how it performs. You can find the AIBB module on the cover disks for your own comparisons. The CPUs have been reclaimed from previous computers which enables the amazing price of £250 and thankfully they are fully tested and guaranteed.

Extremely hot

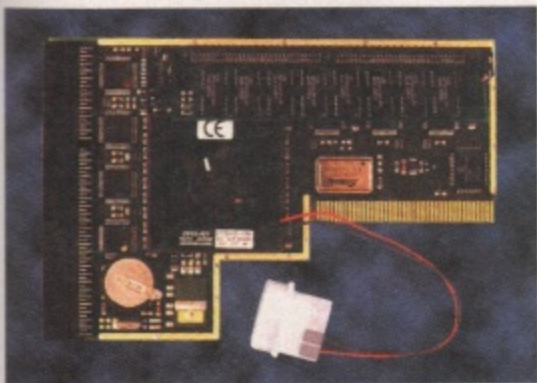
Cooling poses a problem for this baby though. While other 68040 cards have been based on 25MHz 68040s, this beast is a full 40MHz 68040 and is based on the 68060 so it gets very hot. There is a very low profile fan mounted on the 68040 to combat this but the CPU is on the underside and this means that the fan will rest against the desktop on a standard A1200

totally blocking the airflow and leading to CPU destruction.

The power for the fan is provided by a 3.5" drive connector inside a tower system. Physically, the fan also precludes usage of double sided SIMMs. They won't fit, we tried.

Once the card is fitted it carries the same impressive features of the 68060 card such as: disabling of the CPU/memory by holding down the '2' key, up to 128Mb of RAM or 192Mb if the extremely fast Blizzard SCSI connector kit is attached, and a blinding memory bus speed.

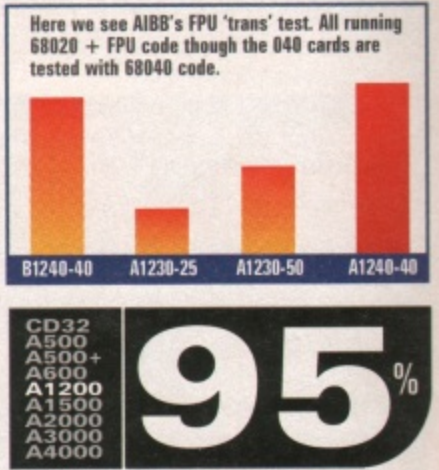
Another bonus to this card is that the 68040 also doesn't need any patching software like the 68060, but the 68040.library is required for emulation of instructions dropped since the 68030. If you do not have the 68040.library, Blittersoft will kindly provide it on request.



DIY type

Other cards are on sale for the same price but only have half the features. This makes it worthwhile for any enterprising DIY type to make provision for it using the 1240T/ERC in a desktop A1200. All you need to do is raise it off the table slightly with stacked rubber feet from Tandy and splice the 12V fan power onto the floppy connector. Without these modifications it's a tower only unit so please don't be tempted to fit to a desktop.

The Blizzard 1240/ERC offers amazing performance and incredible value for money. Get it. ■
Mat Bettinson



Atéo PC Keyboard Interface

■ Price: £44.00 ■ Developer: Atéo Concepts ■ Supplier: Ateo UK ☎ 01705 790211

Fitting A1200 motherboards into some kind of tower case presents a problem with the keyboard. The A1200's keyboard is connected to the motherboard with a short rigid metal-film ribbon which is impossible to extend. It's perhaps this factor that stops so many DIY enthusiasts from starting out. The Atéo PC keyboard interface offers a solution as it allows the connection of any of the innumerable PC AT style keyboards to the Amiga. And it's not just of use to tower systems, perhaps you'd like to put the A1200 out of the way and enjoy the facility of a detachable keyboard normally denied A1200 owners.

Fitted up

Fitting of the interface takes a different approach than I expected. It doesn't plug into the ribbon connector at all. Instead there's a small upside down SMT square chip socket similar to the one in

the Apollo A600 accelerator. The chip carrier is loose with four wires connected to it so it fits firmly and easily onto the keyboard controller chip on the motherboard. Don't worry, the provided instructions are easy enough to follow.

To fit this socket the Amiga needs to be totally disassembled and the RF shield removed. Once the socket is in place the wires can be trailed out of any of the holes and the shield replaced. The wires connect to a daughter board which has some kind of micro controller (my guess is an 8052) and an accompanying EPROM to perform the translation. There's a standard AT keyboard DIN socket for the keyboard to plug into and finally a floppy drive power connector to run the whole thing.

Mapped

The power connector won't be a problem for tower users as the power supplies have these trailing

off anyway but a stock A1200 will require more power splicing from the floppy connector. Oh joy. It worked first time for us as the keys are mapped intelligently. A new keymap is required but is provided on floppy disk. Mounting of the daughter board unfortunately is geared to fitting it onto an existing hole on a metal panel. This is fine for Tower owners but pretty useless for those just wanting an extension keyboard. It really should have been possible to fit it to the spare socket on the back right of the A1200. It could certainly be 'bodged' in place.

The keyboard interface works as desired and will be invaluable to enthusiasts hacking their A1200 into a tower case. If you'd like to see CU Amiga Magazine providing details on how to do this, do send us a letter or Email



to let us know. Mounting will require some improvisation for standard A1200 owners though it will be worth it for a high quality detachable keyboard. ■

Mat Bettinson



PD Scene



Good game, good game. Shut up Brucie. Anyway, there's lots of top games in this assortment of 'scene' snippets from Anthony Brice.

Rocketz game

Rocketz is a classic example of taking an old but good idea and making it even better. Anyone who's ever played Thrust on the old Commodore 64, or R3 on the Amiga will know exactly what to expect in Rocketz.

The idea is to guide your ship around superb scrolling backdrops, picking up extra weapons and tokens along the way. Needless to say there are the usual hazards to dispose of along the way such as enemy ships and strategically-placed gun emplacements designed to destroy you. In single player mode it's fun but when there's two of you it's even better. Using the split screen option you can tussle it out with a friend, collecting bonus stuff first and destroying your opponent with some brilliant weapons. There are several different classes of craft on offer which handle better or worse depending on your style of play and bank balance.

The presentation is simply superb and you can configure the controls to your liking as this type of game is best played using keys, rather than a joystick. In my opinion this game is worthy of a commercial release and as shareware it's an absolute steal. Superb.



Demo of the Month

AminetPath: N/A
Available from: Classic Amiga PD, 11 Deansgate, Radcliffe, Manchester M26 9YJ. Tel: 0161 723 1638. Price: £1.00 per disk plus 75p P+P.



94%

TurboLode 2 game demo

Revamped classics seems to be the theme this month. TurboLode 2 is based on that old favourite Lode Runner, in which you guide your builder-type character around the screens climbing ladders, crossing bridges, swinging from the bars on the ceiling and falling from impossible heights. Up to eight bad guys are chasing you and they're out to stop you getting your hands on the gold bars. And if you weren't frightened enough the music is suitably scary. TurboLode 2 is a tough game. The only reason I managed to see some of the later screens is because the demo had a few saved games already included.

AminetPath: N/A



Available from: Classic Amiga PD, 11 Deansgate, Radcliffe, Manchester M26 9YJ. Tel: 0161 723 1638. Price: £1.00 per disk plus 75 P+P.

82%

Space Taxi 3 game

As if Rocketz wasn't enough to while away those long winter evenings, Space Taxi is another nineties version of a classic Commodore 64 game. In this futuristic world taxis don't have wheels any more. They're mini spaceships. Gravity permitting, your job is to fly one of these taxis around avoiding the scenery and landing on precariously-placed platforms to pick up passengers and take them wherever they wish to go. It's a simple enough idea but there are several different levels, each with their own set of screens to navigate. Moving platforms, electricity-charged holes and gravity playing up make it difficult. Add Excellent presentation screens, configurable speech samples and the music and you've got a great game.

AminetPath: game/misc/spacetaxi2.lha (790k)

Available from: Your Choice PD, 39 Lambton Road, Chorlton, Manchester M21 0ZJ. Tel: 01618 818 994. Price: £1.00 per disk of Aminet files plus 70p P+P.



90%

DMC Gold disk magazine creator



CU Amiga Magazine looked at the original DMC some time back and pointed out a few things that needed to be corrected. The author was affronted at some of these criticisms but nevertheless DMC Gold (Disk Magazine Creator) is a new version which has been created to address them. The author has gone to great pains to point out in the accompanying documentation how indignant he is at Tony Horgan's complaints about his work, such as having to use hex codes manually. He's even gone to the trouble of putting a spoof load screen of Tony (hex codes never put me off OctaMED! - Ed). Fortunately, he's taken note of the complaints, so this new version is a much improved program.

DMC is used by many disk magazine authors to create their work. The new DMC fixes several bugs and adds extra features including better print options and a much-needed search feature which works rather well. The old formats are still compatible with this new version so you can use old templates with no problems. DMC will also still work on 1.3 machines. DMC is worth its weight in gold and the £6.99 asking price is justified if you create your own magazines.

AminetPath: N/A

Available from: F1 Licenceware, 31 Wellington Road, Exeter, Devon EX2 9DU. Tel: 0392 493 580. Price: £6.99 plus 75p P+P.

87%

Fighting Spirit game demo

Yes, it's yet another Streetfighter clone. Has Fighting Spirit managed to succeed where others failed? Well, the graphics and presentation to start with are superb, and the music is atmospheric. There are 10 characters in the full game with some surprise ones promised but only two in the demo. You've got the choice of two characters: young Kento Sazak or the slightly older Yuri Hishimoto against a nice oriental backdrop (we're promised 10 different animated backdrops in the full game).

There's the usual compliment of special moves along with the standard punching and kicking stuff. So far it's looking very attractive, it plays well, the players move quickly enough and the response time is pretty good. This bodes well for the full game.



AminetPath: N/A
Available from: Classic Amiga PD, 11 Deansgate, Radcliffe, Manchester M26 9YJ. Tel: 0161 723 1638. Price: £1.00 per disk plus 75 P+P.

85%

National Hunt V3 game

National Hunt offers you the chance to become a National Hunt horse racing trainer. And as far as management simulations go there's enough statistics and figures in



here to give real horse racing fans something to shout about but there is a price to pay. Working through a season turns into a chore rather than fun due to badly implemented statistics screens that take forever to scroll up with no option to skip them. There are too many delays in the game, which presumably are there to give you time to read what's on screen, when an option to click mouse when you're ready would be so much simpler. Other downfalls include the lack of a hard drive installation script (although it can be done manually), abysmal sound effects and you can only ever save one game. Some of the statistics screens are set out illogically too. For example, when you make a bet and can't see all the info you need. It's not all bad, though. You have an option to view races or not (and the race screens are fun to watch when you have a bet on your horse).

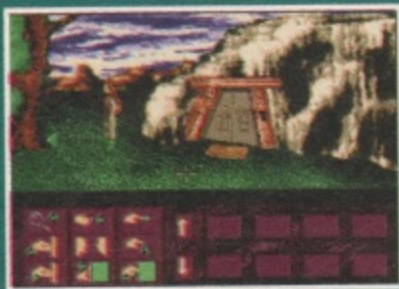
AminetPath: N/A

Available from: Mark Winterton, 1 Risby, North Bretton, Peterborough, Cambs PE3 8QR. Price: Demo version £1.00 plus 50p P+P. Full version £6.00, P+P inclusive.

65%

Keith's Quest game

This is another arcade adventure in the spirit of the Monkey Island series. It's a licenceware game where you guide our hero through a distant land interacting with objects and the scenery along the way. The commands are enforced the traditional way by clicking on words at the bottom of the screen for sentences like: 'unlock door with key'. It's the usual hunt the treasure plot but I'm not sure what kind of people it's aimed at as it seems too tricky for kids and adults may find the plot a bit too silly to take it seriously. I played the demo of the full game and unfortunately didn't get too far as the puzzles were far too illogical for me. I only managed to visit three or four locations before getting stuck. However, people who play these types of game more than I do may have no such trouble.



AminetPath: N/A

Available from: Classic Amiga PD, 11 Deansgate, Radcliffe, Manchester M26 9YJ. Tel: 0161 723 1638. Price: £1.00 per disk plus 75p P+P.

84%

New Wordworth

Wordworth[®], the World's most popular Amiga word processor, is now even better with the release of Wordworth[®] 6.

Just look at these new features—

- New drawing tools: polygon, regular polygon, bezier curve and freehand.
- More ARexx commands and macros.
- Password protection on documents.
- Watermarks.
- Improved RTF file support.
- Over 1000 pieces of clipart.
- 50 Compugraphic fonts.
- CDROM version.
- Plus many other minor improvements and refinements.

The Experts Applaud

Since its launch in 1991, Wordworth[®] has grown to become the most successful and most popular word processor ever developed for the Amiga. After all, 250,000 users can't be wrong!



**AMIGA
SHOPPER**

And with the launch of new Wordworth[®] 6, Digita[™] has clearly demonstrated its continued commitment to the Amiga community.

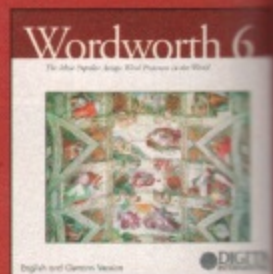


Black Horse House Exmouth EX8 1JL ENGLAND

Telephone 01 395 270 273 Facsimile 01 395 268 893 Email sales@digita.demon.co.uk URL www.digita.com

An Offer You Can't Refuse

Wordworth[®] 6 is now available on CDROM* at an introductory price of just £39.99** (if you already own Wordworth[®],



or any other word processor, you can upgrade for just £19.99**).



Amazing Value!

Wordworth[®] 6 for £39.99 is pretty incredible value. Better still, for just £10 more you can also buy the complete Digita[™] range...

Wordworth[®] 6 Office contains Wordworth[®] 6, Datastore[™] 2, Money Matters[™] 4 and Organiser 2, all on one convenient CDROM* (if you already own any of these Digita[™] products, you can upgrade to Wordworth 6 Office for just £34.99**).



Don't Miss This Special Introductory Offer—

Call today!

To order, telephone 01 395 270 273, facsimile 01 395 268 893, email sales@digita.demon.co.uk or visit our web site URL www.digita.com.

*Floppy disk versions also available
**Plus £3 postage and packaging

A MEMBER OF THE DIGITA GROUP

This advert is copyright ©1996 Digita International Limited and supersedes any previous issues. No part of this advert may be reproduced without written permission. Wordworth is registered, and Datastore, Digita, the Digita logo and Money Matters are trademarks of Digita Holdings Ltd. All other trademarks used in the text of this advert are the properties of their respective companies. Adverts are for general guidance only. The Company reserves the right to change specification and machine requirements at any time. All specific requirements and expectations of the buyer must be agreed in writing by the company at the time of purchase. Whilst every care has been taken to ensure that the information provided in this advert is accurate, Digita or any associated companies cannot be held liable for any errors, omissions, or loss which may have occurred. E&OE.

REPAIRS

WHILE-U-WAIT!!

COMPUTERS AND MONITORS

That's a promise for computers!!

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
- 90 DAYS WARRANTY ON ALL REPAIRS!!
- £10 EXTRA CHARGE FOR WHILE-U-WAIT SERVICE
- COURIER CHARGES £7.05 EACH WAY
- A1500/A2000/A3000/A4000.....£QUOTATION

MODEMS

BABT APPROVED + NCOMM SOFTWARE
14.4k...£59.95 28.8k...£124.95

APOLLO ACCELERATORS

1230 Lite...£99.95
1230/50....£159.95
1240/25 ...£229.95
1240/40 ..£299.95
1260/50 ..£489.95

SIMMS

4Mb£29.95
8Mb£49.95
16Mb£89.95
Good discounts on SIMM prices if bought with an Accelerator.

A500, A500+ & A600

£39.95

A1200

£49.95

2.5" HARD DRIVES

For A600 & A1200

60Mb.....£55.00 120Mb.....£75.00 250Mb...£105.00 540Mb...£149.95
80Mb.....£65.00 170Mb.....£90.00 420Mb...£129.95 1GIG.....£199.95

All hard drives are pre-formatted, partitioned with Workbench loaded and include 2.5" IDE cable and software
2.5" IDE Cable and Software (if bought separately).....£9.95

3.5" HARD DRIVES

540Mb£115.00 1.08GIG£150.00
850Mb£130.00 2.1GIG£235.00

SIMPLY THE BEST AFTER-SALES SERVICE

MEMORY UPGRADES

A500 Upgrade to 1 Meg **£13.95** A500+ Upgrade to 2 Meg **£19.95**

A600 Upgrade to 2 Meg **£19.95** **UNBEATABLE PRICES**

A1200 0Mb £45.00 4Mb £75.00 8Mb £95.00
33MHz FPU plus Crystal£39.95

GUARANTEED SAME DAY DESPATCH
(Subject to availability)

INTERNAL FLOPPY DRIVES

A500/A500+ £29.95 A600/A1200 ...£34.95

CHIPS ♣ SPARES ♣ ACCESSORIES

1 Meg Fatter Agnus .....£19.00	8520 CIA A600/A1200 .....£14.50
2 Meg Fatter Agnus .....£24.00	8374 Alice A1200 .....£30.00
8362 Denise .....£9.00	8364 Paula A600/A1200 .....£16.50
8373 Super Denise .....£18.00	Video DAC A1200 .....£19.00
5719 Gary .....£7.50	A600/A1200 Keyboard .....£60.00
8520 CIA A500/A500+ .....£15.00	Lisa A1200 .....£35.00
8364 Paula A500/A500+ .....£12.00	Gayle A600/A1200 .....£25.00
Kickstart ROM 1-3 .....£15.00	Budgie A1200 .....£30.00
Kickstart ROM 2-04 .....£22.00	Mouse (290dpi) .....£15.00
Kickstart ROM 2-05 .....£29.00	SCART lead .....£15.00
A500/A500+ Keyboard .....£50.00	Mouse Mat .....£4.00
6570 Keyboard Chip .....£20.00	10 Boxed Branded Disks .....£6.00
68000 Processor .....£8.00	Printer Cable .....£6.00
Power Supply A500/A600/A1200...£35.00	Surf Squirrel .....£95.00
Exchange A2000/A1500 Power Supply...£80.00	Squirrel SCSI Interface .....£55.00

* All chips are available ex-stock
* Please call for any chip or spare not listed here

QUAD SPEED CD ROM DRIVES

Including Squirrel Interface
£189.95

LOLA GENLOCKS

L1500.....£169.95
L2000S...£349.95

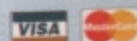
SPECIAL OFFER

A1200 without hard drive£299.95 A1200 with 340Mb hard drive£429.95
A1200 with 80Mb hard drive£349.95 A1200 with 510Mb hard drive£499.95
A1200 with 170Mb hard drive£379.95 *** Call for more good deals**

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.



PD Utilities



When is an AGA slideshow maker not actually AGA? This and other questions are answered by Anthony Brice as he goes off on his public domain rounds in search of new utilities to put through their paces.

SuperCat V1.3 recording database

One of our Super CU CD-ROMs featured an earlier demo version of SuperCat. The author, Mark Sweeney, was more than pleased that the demo appeared on that CD and has overhauled his program to make

it even better. This new version, SuperCat 1.3, has a database of cover disks from all of the well known Amiga magazines, including CU Amiga Magazine of course. Created using the wonderful CanDo multimedia program, SuperCat features a very nice interface which is both very easy to use and well laid out. It now includes a very powerful search engine which saves you time digging through your disk boxes for that obscure disk. You can also extend the database as you add to your collection. This really is the best example of a disk logger that I've ever seen. As an added bonus when you buy the program from the author you get a free copy of DidIt, a database of famous people featuring a similar interface. At £2.50 a copy it's a bargain to snap up. And check out the wonderful mug-shot of the author in the program info section. Anyone got a nail file to break him out?



Utility of the Month



AminetPath: N/A
Available from: Mark Sweeney, 15 Birchfields, Longsight, Manchester M13 0X. Price: £2.50 including free copy of DidIt.

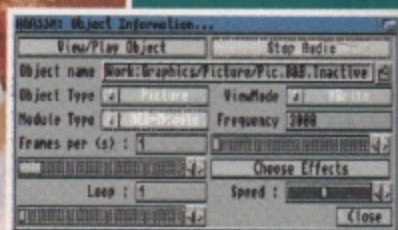
92%

Agassm slideshow maker

Although this is billed as an AGA slideshow maker it's not limited to AGA Amigas. I'm not sure why the author didn't rename it after pointing out this fact to us in the documentation but stranger things have happened at sea. This is a demo version of the full program which is available as licenceware. It's an OK little program but it's let down by the lack of a save option, no install script (which you get when you buy the full program) and a horrible nag requester which pops up periodically to remind you that it is a demo. The lack of support for datatypes is too restricting as this means pictures have to be in IFF format before you can use them with your slideshows. Fortunately, to make up for this there are some impressive effects for your scripts such as bi-directional scrolling, faders and spirals to make your slideshow more interesting than the usual flick picture methods. There are also options for playing music, animations and scripts at key points and an ARexx port for more versatile control.

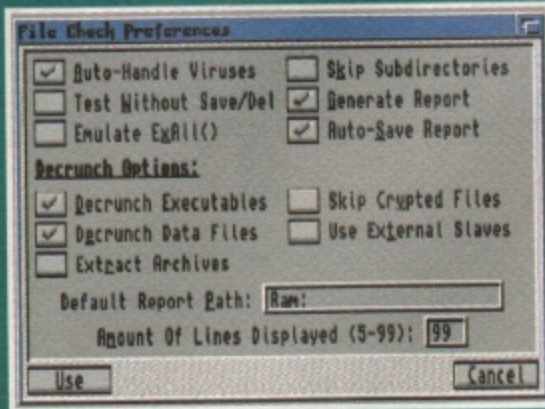


AminetPath: gfx/show/agassm.lha (210k)
Available from: Your Choice PD, 39 Lambton Road, Chorlton, Manchester M21 0ZJ. Tel: 01618 818 994.
Price: £1.00 per disk of Aminet files plus 70p P+P.



83%

VirusZ II V1.35 virus killer



VirusZ now holds the rank of the Amiga's premier virus killer since Virus Checker ceased development. It is an essential tool no Amiga user can afford to be without. We've all heard horror stories about viruses

that can do silly things like display daft pictures right down to the really malicious ones that can destroy all the data on your hard drive. VirusZ is the Amiga's equivalent of Domestos and kills all known viruses stone dead. And, as the updates to this program are released so regularly, it's definitely the leader in the field. It saved a particular CU CD-ROM from the Happy New Year virus as it was the only one that could recognise it. The question is not how valuable a virus killer on your computer is but can you afford to get caught out by not using it. Don't take the chance. Get this now.

AminetPath: util/virus/VirusZ_II135.lha (187k)
Available from: Your Choice PD, 39 Lambton Road, Chorlton, Manchester M21 0ZJ. Tel: 01618 818 994.
Price: £1.00 per disk of Aminet files plus 70p P+P.

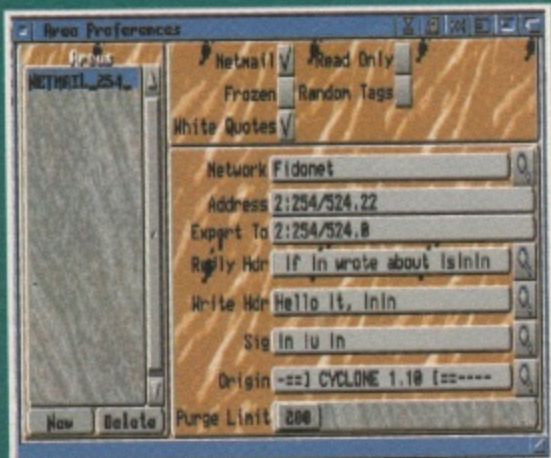
89%

Cyclone V1.10b fidonet mail reader

For the last three years, Spot has stood the test of time as the leader of Amiga Fidonet offline readers. The likes of Thor, Mail Manager and April have all taken their share of the user base but Spot has always been the favourite. Now Cyclone, after a year-long wait, has arrived and the situation looks likely to change. Spot hasn't been in development for two years while Cyclone is new, uses MUI, looks fantastic, and has all the features of Spot as well as a whole lot more. MUI is likely to put off a few but Cyclone promises a lot. For example, there is a separate tool for importing and exporting all mail packets to make upgrading easier. You also have options for coloured text, HTML reading, Amiga Guide and a whole host of configuration options. Cyclone is still at beta stage, hence potentially unstable, but it has a supportive author and is worth checking out (OS 3+ only).

AminetPath: comm/mail/cyclone110b.lha (256k)

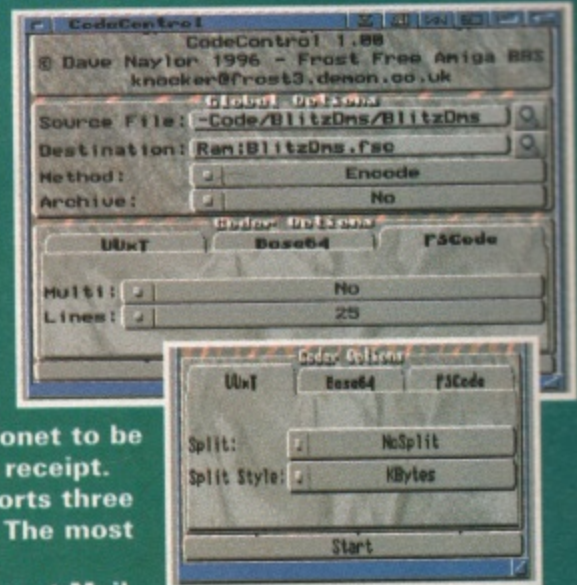
Available from: Your Choice PD, 39 Lambton Road, Chorlton, Manchester M21 0ZJ. Tel: 01618 818 994.
Price: £1.00 per disk of Aminet files plus 70p P+P.



87%

Code Control GUI

CodeControl is an ARExx script that uses the wonderful MUIRexx extension to get the best out of UUencode and UUDecoding tools. It places files in ASCII messages which can be sent over the Internet or Fidonet to be easily decoded on receipt. CodeControl supports three different formats. The most common is MIME (Multipurpose Internet Mail Extensions) on the Internet and UUencode with Fidonet technology. Finally, there's support for FSCode which works just as well but never caught on. You use Code Control to select the file you want to encode and then paste the output text into your message. This works very well and saves a lot of time trying to do the same thing via the Shell, especially with the strange command line arguments these binaries use. You also have configuration options based on which format you are using and this lets you split files amongst several messages. To restore them later the user can save the messages as ASCII text and then run Code Control over any one to retrieve the file. It works surprisingly well with an intuitive Magic User Interface GUI. Highly recommended.

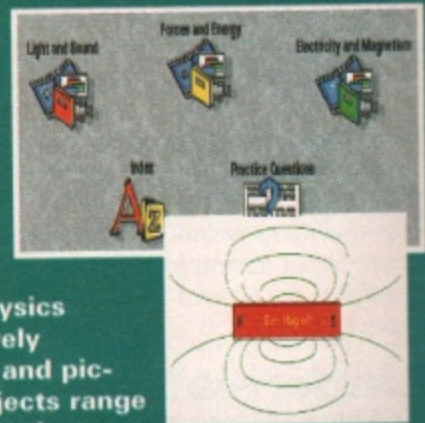


AminetPath: util/conv/codecontrol.lha (49k)
Available from: Your Choice PD, 39 Lambton Road, Chorlton, Manchester M21 0ZJ. Tel: 01618 818 994.
Price: £1.00 per disk of Aminet files plus 70p P+P.

90%

GCSE Physics Tutor (2 disks) physics tutorials

Here's something which we don't see that often on the Amiga yet it could be invaluable to a large number of students. Physics Tutor, spread across two disks, features several lessons on physics and in some cases uses examples from GCSE Physics exams. The presentation is lively enough as it uses animations and pictures as well as text. The subjects range from light and sound, forces and energy, electricity and the wonderful world of magnetism. The tutorials disk uses a multiple choice format and you get a hint button with the actual lessons. The second disk contains examination questions but there's no hint button this time. Each section has a set of questions at the end to test what you've learned earlier. And to top it all there's an invaluable index option and a quick reference guide. Students should lap this up.



AminetPath: N/A
Available from: Norwich PD, 43 Motum Road, Norwich, Norfolk NR5 8EH. Tel: 01603 504 655. Price: £2.95.

82%

What's on Super

Here's your guide to all the hot stuff on this month's CD-ROM with details of how to work it all.



As with our prior cover CDs, CUCD6 can be used either by booting on a CD32 or A1200/4000 with adequate CD32 emulation. The CD will not autoboot under any Kickstart earlier than 3.0. If using the CD via Workbench and intending to run software directly off the CD then it's important to first click on the 'Init CD' icon.

This sets up various assigns and makes MUI 3.6 temporarily available if it is not already installed.

It's worth noting that running software directly from CD is a touch-and-go business. While we've gone to a lot of effort to make many programs run from the CD, others may have to be dragged to your hard drive either manually or by running an included installer. 'Init CD' also runs the New Icons patch so don't be surprised if the icons change to more attractive designs afterwards.

A word on demos and games

Demos and games are almost never coded in a so-called OS legal way. That means that while they may work for us, they might not work for you for several reasons.

Either your hardware set-up is slightly different or some third party software running on your Amiga may upset the demo or consume resources that the demo/game requires. Please do not assume the CD is simply 'faulty' if any of this software refuses to run.

There are things you can do to make the software more likely to run. Closing down any running software, exiting screens and such forth will free up resources. It might be better to cut to the chase and copy the demo/game onto your hard drive and then boot with no startup sequence. This involves resetting and holding down both mouse buttons, then press start with no startup-sequence.

You'll then be placed into the AmigaDOS so you'd need to know enough about that aspect of your Amiga to navigate to where the offending software is and run it. As a general rule, if the game or demo still doesn't work then it's incompatible with your machine. Some demos will only ever work when run in this fashion. If you get a requester asking for a specific volume then the software needs 'assigns' set up and so it's fairly likely it has an installer that should have been run.

Underwater Capers

This month's cover game is the bizarrely titled Seemore Doolittle's Underwater Capers.

This horizontally scrolling shoot 'em up was written using Reality Game Engine, the new games authoring software which promises to allow people with no programming experience to write professional quality games.



Audio tracks

This month we feature a special selection of remixed audio tracks from Australian musician Samuel Gilbert. Based in Adelaide, Samuel has used OctaMED since the first versions and draws on a wide variety of sources for the sound samples to set the atmosphere in his unique uncluttered compositions.

His work shows a maturity and professionalism concerning both the technical quality and the clear scoring of the music. He cites the Prodigy and Aphex Twin among the inspirations to the jungle style underlying some of these works.

Samuel tells us that his music reflects his moods at the time of writing; by the sound of these tracks he must be feeling complex and laid back while he was slaving over OctaMED.

They are titled as follows;

Track	Title	Length
2	Believe Me	4:50
3	Hypnosis	4:55
4	Emerald Dreams	4:55

The audio tracks can be played with any normal CD player and can be found as tracks 2, 3 and 4 respectively. Some audio CD decks may mistake the first track as audio when it is in fact the data track. This will result in them playing awful noise so don't risk it and spool on to track two right away before the CD starts playing. Enjoy!

What's in your drawers

When the CUCD6 icon is opened from the Workbench, you will see that we haven't made any major changes in the layout for once! Those of you who have used CUCD5 mounted on last month's cover should find things reasonably familiar. We are of course always trying to perfect the layout of the CD, and have tweaked the standardisation a little bit. Some readers have requested we try to make more of the software run straight from the disc, and these tweaks should help that. The disc is now structured like a standard Workbench disc to simplify its usage.

The Workbench 3.1 drawers such as Prefs, System, Utilities and Tools are in the root directory. There's no Support drawer and everything previously found in this drawer has been moved into Tools, System and Utilities as appropriate. The Magazine drawer has also moved into the CUCD drawer.

In the root directory of CUCD6

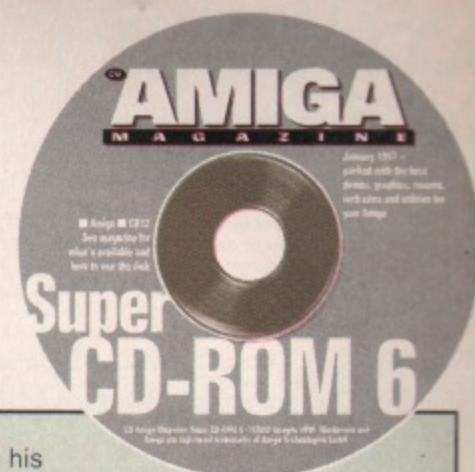
Imagine 4.0

The star turn on this month's cover CD is the most up-to-date version of the most popular 3D rendering software on the Amiga. The Imagine directory contains both Imagine.fpu for users with floating point units and Imagine.int for those of you still without an FPU. Make sure you use the FPU version if you have an FPU installed in your machine, it's a lot faster!

Imagine will run direct from the CD, however if you plan on using this software much, you would be advised to install the software to your hard drive. There is an installer icon in the Imagine directory. You'll also find over 100Mb of objects and other support data and software for Imagine within the main Imagine drawer.



er CD-ROM 6?



Utilities

You will find Multiview, More, Clock and some tools for working with Newlcon images in this drawer.

Tools

Contains the Workbench 3.1 Tools drawer.

Prefs

The Workbench 3.1 Preferences drawer and New Icons prefs.

System

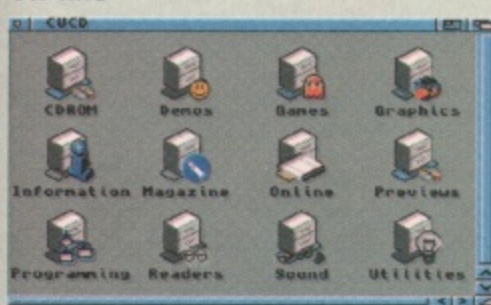
The 3.1 System drawer in addition to the Support drawer from CUCD4. The latest versions of MUI 3.6, PPSHOW, Visage, Flick, Parnet, Newlcons, HappyENV, GMPlay, Play16, DeliTracker, OctaMEDPlayer and SuperView are all crammed here to aid access to the rest of the CD. There is also an up-to-date version of VirusZ.

WWW

There's 45Mb of Internet WWW sites which can be browsed directly off the CD without need of an Internet connection. Special CD Amiga versions of the premier Web browsers, AWeb and IBrowse, are provided to access the sites where an improved main menu system is now included for easier navigation around this treasure trove of information and entertainment.

Inside the CUCD drawer;

On-line



Another collection of goodies for Internet users. Included is a full Aminet index, a MUD system, the latest release of Miami, Webdesign software and much more.

Programming

This month we have a developer's system for Directory Opus 5.5, some Blitz FAQ web pages, and Gnu-C and MUI directories containing plenty to keep coders busy.

Graphics

CUCD6 has plenty in the graphics directory this month to keep your eyes happy. There is a big directory of anims, some 64 colour icons, CyberGraphix support files, Star Trek Workbench patterns, the Artstudio package including a demo of the latest v2.0 release and plenty more.

Readers

We've put in quite a lot of readers work on this month's CD. Picture files are now in separate directories for IFFs and JPEGs, although credits for both directories can be found in Credits. The Utilities drawer



contains a database program, LZHUtills, Icon support, some C support utilities, a program for producing banner text on your printer, and as always, more. The mod collection contains plenty of tunes including a nine disk collection sent in by David Melville. Under Anims you'll find some real oddities and some nice work from Dale Hemenway,

who clearly has too much time on his hands. There are plenty of readers' games too, including an excellent variation on the Tetris theme, a fast two player split-screen 3D racing game and for the nostalgic PC haters out there a text adventure called Curse of the PC!

CD-ROM

Here you'll find software for CD-ROM users, including the AMICDFS2 filing system, a demo of Make_cd (a new CD-ROM writing package from Germany) and a new audio CD player.

Demos

As usual we've included all the latest top 'scene' demos including the Aircombat demo, which is quite a treat for users with 8Mb machines and many many others. There's hours of demo viewing entertainment to be found here.

Previews

There is a preview this month of Almathera's latest package for the multimedia / desktop video users, rather appropriately called DTV.

Information

Here you'll find a massive AmigaGuide to the shared libraries of the Amiga which should answer a lot of questions about this often tricky subject. There is also a guide to the A1200 with some in-depth technical specs and IFFs showing memory structures and block diagrams.

Utilities

There is plenty here this month to make your Amiga a more exciting place to visit. MPLS patch is a MUI system for sharing file formats, a tooltypes editor and an assortment of other wonders, including version 3.6 of Shapeshifter, the amazing shareware Mac emulator which basically gives you a whole new computer for the cost of the shareware registration.

Sound

More mods to amuse the ears, a MIDI player, Hippoplayer and the bizarre AlgoMusic.

Games

Entertainment central with a collection of PD and demo games. As always we can't guarantee that they'll work on your particular Amiga so do read whatever documentation is provided, checking system requirements and so on. Be sure to check out Uropa2, a fast combination 3D isometric/raytraced game set on Jupiter's moon and DOOPSI, a powerful but easy to use object oriented graphic adventure authoring system, which you can use to write your own version of Monkey Island. Lots of fun to be had here.

Driving CUCDs

Generally driving CUCDs is as simple as clicking on an icon of something you want to run, play, see etc. You should find it will automatically activate a player, viewer or run the program without further ado. Of course if you access CUCD from a directory utility, then you can use your own preference of players, viewers etc on the specific files.

We can't emphasise enough the importance of clicking on any readme or other documentation files inside each directory. There's simply too much material for us to detail here so you'll have to explore, read the documentation and see if each program or whatever is of use or interest to you.

So have fun exploring CUCD6 and don't forget to send us any work of your own so we can include it on later CDs! Also feel free to write into the magazine and tell us what you'd like to see on future CDs or how you'd like to see them organised. Address all letters of this topic to CD Editor.

CD-ROM Scene



CU Amiga Magazine's newest recruit, Andrew Korn, tucks into this top selection of CDs.

Imagine 3D PD

If you have ever wanted an object for Imagine that you couldn't be bothered to make yourself, it's probably on this disk. There are 275Mbs of object files here, covering everything from the obligatory Klingon cruiser to a toilet, taking in Stonehenge and Boeing engine parts on the way. Most of the objects are complete with the textures to render them straight away. However, you will need the full texture set from the FPU version to use them all.

There are also almost a thousand textures in their own directory in IFF24 and TARGA formats, ranging from small but nicely tessellating brick textures to a lovely 2Mb earth map. These are mostly really useful textures; the kind of thing which you can



actually imagine (sorry) wanting to use more than once. If you've been looking for a realistic green stucco effect, or a pink marble, this is the place to look. For added realism, why not apply one of the supplied bump maps? There is an index directory

covering the full range of textures, which makes hunting down the one you want much easier. However, the index doesn't include the objects. Some of the objects are accompanied by an IFF or JPEG sample render in their directories; most aren't though. This means you need to quick render to really evaluate them properly. It would have been nice to have had a printed booklet showing all the textures and images but you can't expect everything.

This disc is almost as much fun to browse through as it is to use. I now know what a

Mitsubishi Zero looks like, and the space directory is pretty much a history of the sci-fi movie. I'm not sure I could ever find it in me to render an NTSC monitor, but it's there if you want it. If you are a regular Imagine user, buying Imagine PD 3D could be the answer to a lot of wasted time and aggravation.

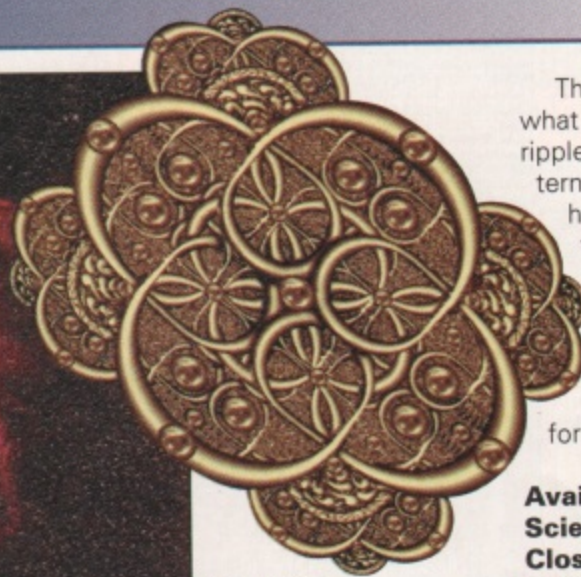
Available from: Weird Science, 1 Rowlandson Close, Leicester, Leicestershire LE4 2SE. Tel: 0116 234 0682 Price £19.95 plus £1 P+P.

88%

Multimedia Backdrops

Multimedia Backdrops is a collection of 100 multimedia backdrops. If 100 seems like a surprisingly small number for one disk, it is because the backdrops are stored in IFF24, TARGA and TIFF formats for easy use on PCs and Macs as well as on Amigas. The files are also stored in both NTSC and PAL resolutions at 752 by 480 and 768 by 576 pixels respectively.

There is no doubt that this is an easy CD to use. All the images are indexed in five pages of thumbnail copies for easy reference, the indexes in all the above formats and JPEG too as



The images are pretty much what you would expect: water ripples, carpets and brick patterns. The artwork is of a fairly high quality but a lot of it is, frankly, rather dull. There are better collections out there, and unless the thought of file format conversion makes you break into a sweat, I would look for one of those.

Available from: Weird Science, 1 Rowlandson Close, Leicester, Leicestershire LE4 2SE. Tel: 0116 234 0682 Price £29.95 plus £1 P+P.

an added bonus. The multi-format system means you can use the pictures straight off without any kind of file conversion, which some people will consider a real plus. As far as I am concerned,

that is the problem with this disc. Given that each image is on this disk in six different formats, it seems a bit like buying a sixth of a CD. Converting file formats is really not much of a problem these days and this seems rather wasteful to me.

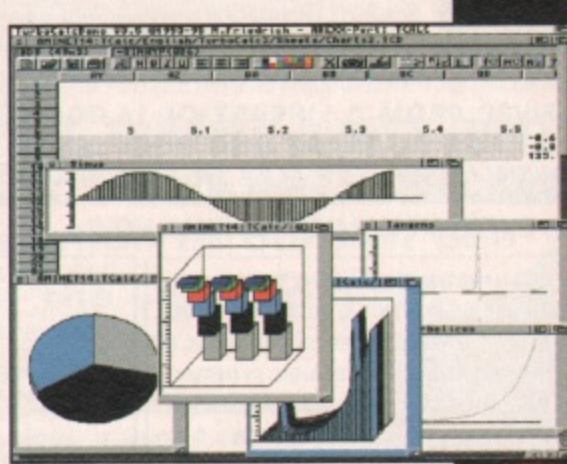
62%

Aminet 14

Another month, another Aminet CD. This regular round up of all the best uploads to the official home of all things Amiga PD contains the usual eclectic mixture; 135Mb of mods, 288Mb of pics, 109Mb of business software and a few 100Mb more of assorted comms stuff, text files, utilities, games and demos.

The compilers of the Aminet collection like to theme their discs, and this one is no exception. It is a business special, with a full version of TurboCalc v2.1, a German spreadsheet which Amiga Magic Pack purchasers will already own, but for anyone looking for a spreadsheet, this is worth the price of entry alone. Although it doesn't have the power of its bigger PC and Mac cousins, it is probably the most powerful spreadsheet package available for the Amiga. Alongside this is a cut-down demo version of v3.5, which promises to add a few more power functions and close the gap a little on what is available on the other platforms.

The business section also contains a fair assortment of



demos of commercial releases and utilities, including, wonder of wonders, a patch to force Imagine to use the standard Workbench ASL requesters. There is a directory full of databases, mostly episode guides for trekkies and video collection cataloguers, but there is also an electricity consumption database written in Amos for the truly deranged amongst you.

On the entertainment side, there is the usual assortment of pictures, animations, demos and music. The game directory contains the inevitable Worms



backdrops, which vary from the laughable to the hysterical and a brave and intriguing attempt at a multiplayer PD Colonization clone.

I wouldn't say this was the most impressive Aminet collection there has ever been, but the easy to use AmigaGuide front end gives you access to a library of software so large and varied, you are bound to find wonders in it.

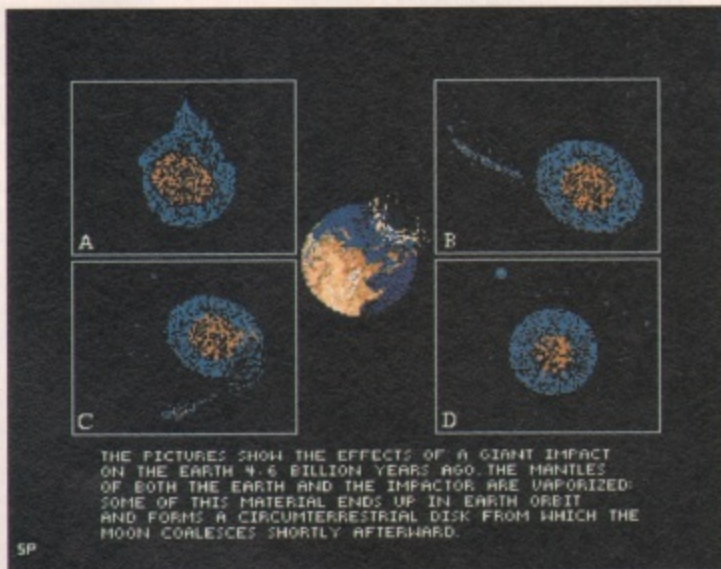
Available from: Weird Science, 1 Rowlandson Close, Leicester, Leicestershire LE4 2SE. Tel: 0116 234 0682 Price £14.90 plus £1 P+P.

90%

The Learning Curve

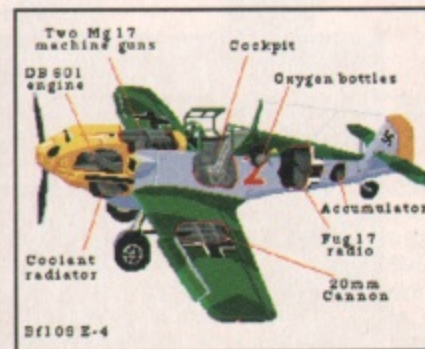
650Mb doesn't seem so much when it is gobbled up by huge graphic and sound files. When, as with this CD, the majority of it is text, you realise how much it really is. Frankly the amount on this disc is breathtaking. If you ever get stranded on a desert island with only one CD, I recommend you take this one.

The Learning Curve claims to be educational software; it is more like a small library. It is organised into subject areas from aircraft to science (no zoology?), each area containing a wealth of text files, graphics or utilities. For instance, under philosophy/modern I found directories covering Abbott to Voltaire, and these are no brief overviews. Under Voltaire is the complete text of Candide, and under Abbot is the whole of Flatland. In the section entitled



'religions' I found the Egyptian book of the dead, which I have been after for ages, and the complete works of Shakespeare are bound to be useful.

If the collection of literature and philosophy isn't to your taste, you can try the science section and learn how engines work or what the stars looked like the day you were born. For the more bloodthirsty the aircraft



directory contains specifications and diagrams of all the weaponry used in the Gulf War and a lovely anim of a Russian Mig aircraft crashing at the Paris Airshow.

Being an arty type, I rushed off to explore the art directory. It was well supplied with PD and shareware paint packages, fractal software and stereogram generators and includes the wonderful Minimorph. The classic art directory was the only real disappointment. Although the pics were well digitised, the selection of the Mona Lisa, a Constable

collage and a rogues gallery of impressionism was uninspired. The Learning Curve is meant to be for adults as well as children; apart from the junior education directory it is an encyclopedia resource, not an educational tool. Although the

junior education directory contains plenty of nice little educational games and tools, if you do buy this CD for your kids they probably won't learn much - you'll be far too busy playing with it to let them have a go.

Available from: Weird Science, 1 Rowlandson Close, Leicester, Leicestershire LE4 2SE. Tel: 0116 234 0682 Price £19.95 plus £1 P+P.

93%

V12-PD

Dept CU1
PO Box 14
Lincolnshire
LN11 8LF
United Kingdom
01507 450114

**10 PD DISKS FOR A FIVER FROM A LIBRARY OF 16,000+,
BLANK DISKS WITH LABELS AT 2.50 FOR 10, TRADE AND BULK DEALS ON BLANKS
MUCH, MUCH CHEAPER THAN ANYWHERE ELSE IN THIS MAGAZINE!**

SPECIAL OFFERS, EXTREMELY LIMITED, RING NOW...

**BULK BLANK DISKS AT OUTRAGEOUS PRICES,
AS WELL AS PD. 500 DISKS OF PD FOR A STUPIDLY
LOW PRICE OF 120 QUID! OWING TO A SUPERB NEW
SUPPLIER OF BLANKS, ALL OUR BLANK PRICES ARE
ONCE MORE AVAILABLE, RING OR GET A CATDISK FOR
FURTHER DETAILS.
REGULAR ORDERS GET HUGE DISCOUNTS,
RING FOR FURTHER DETAILS!**

**HAVE YOU ANY OLD HARDWARE YOU WANT TO TRADE IN
FOR DISKS? OLD PRINTERS, MONITORS, HD'S, DISK DRIVES,
CD'S, COMPUTERS, ANYTHING CONSIDERED FOR AMIGA, PC
OR MAC. BULK PD OFFERED OR BULK BLANKS IN RETURN
AND YOUR OLD GAL WILL GET A NEW HOME! RING FOR A
DEAL ON ANY TRADE IN. WE ALSO SELL ON
RECONDITIONED HARDWARE AS AND WHEN IT IS AVAILABLE**

**OTHER SERVICES INCLUDE FLATBED SCANNING, DIGITISING, SOUND
SAMPLING, MEMBERSHIP, PD SWAPS, FOREIGN PD AVAILABLE IN
LARGE NUMBERS, BRAND NEW AND DIRECT FROM THE AUTHORS!
OUR MEMBERSHIP FOR ONE YEAR'S CATDISK UPDATE (24 DISKS!) IS
ONLY £8.00. GET THE LATEST PD AVAILABLE WITHIN MINUTES OF IT
BEING RELEASED, AND OUR FAB DISKS FOR A YEAR WITHOUT BOTH-
ERING TO ASK FOR IT EACH MONTH. PLATINUM MEMBERSHIP IS
£15.00, AND ENTITLES YOU TO 10% OFF PD, A YEAR'S CATDISKS AS
THEY'RE RELEASED, 30% OFF SCANNING, 30% OFF BLANKS AS PD,
25% OFF DIGITISING, 30% OFF SAMPLING, ETC, ETC!
CATCH IT WHILE IT'S HOT!**

HAPPY CHRISTMAS FOR ALL AT V12-PD !!! HO HO HO.....

A DOUBLE CELEBRATION, WISHING EVERYONE A HAPPY CHRISTMAS AND ALSO V1-PD A 2ND BIRTHDAY! YES, WE'RE NOW THE BIG 2 YEARS OF AGE! LUMMY HOW TIME FLIES. ALTHOUGH THIS IS OUR LAST ADVERT IN CU FOR A SHORT PERIOD, WE ARE NOT LEAVING THE AMIGA SCENE, SO CATDISKS AND ORDERS WILL BE AVAILABLE ALL YEAR ROUND. TO TAKE ADVANTAGE OF THIS, WE OFFERING EVERYONE A CHRISTMAS PRESENT OF MEMBERSHIP FOR ONE YEAR FOR THE KNOCKDOWN PRICE OF 4 QUID! YES 4 MEASLY QUID!

SO, EVERYONE WANTS THE LARGEST AND FASTEST GROWING SELECTION OF AMIGA SOFTWARE-ON EARTH DELIVERED AT THEIR FINGERTIPS MONTH IN, MONTH OUT, NOW'S YOUR CHANCE TO GET IT! OH YES, WE'RE ALSO...

IAT PD COMPANY OF THE YEAR 1996.

AND NO IT WASN'T FIXED. WELL, HOW ON THIS GREEN, ROUND SPHERE WE CALL EARTH DID WE GET THIS AWARD? WELL, THIS IS WHY V1 GOT THE GOLD:

* THE LOWEST PRICES IN THIS MAGAZINE BY A VERY LONG WAY, DON'T TAKE OUR WORD FOR IT, LOOK AROUND, EVEN THE TINY ADS AT THE BACK AREN'T CHEAPER.

* 24 HOUR TURNAROUND. WITH OUR TURBO POWERED PD WE ALWAYS OUTSTRIP THE COMPETITION FOR SPEED. WE'RE NOT CALLED V12 FOR NOTHING!

* THE LARGEST SELECTION OF HIGH QUALITY PD ANYWHERE IN THE WORLD. OVER 15,000 TITLES AND ALL AT 50P EACH! IF YOU WANT IT, CHANCES ARE WE ALREADY HAVE IT AND 3 DIFFERENT PROGRAMS LIKE IT TOO! OUR ARCHIVED LIBRARY TAKES UP SPACE LARGER THAN TWICE THE ENTIRE AMINET, JUST TO SHOW WE AIN'T KIDDING.....

* UNDENIABLY THE BEST CATDISK IN THE WORLD. THERE QUITE SIMPLY ISN'T A CATDISK THAT HAS HAD SO MUCH TIME SPENT ON IT. SORRY BUT PERFECTION WAS DEMANDED IN A CATDISK AND WE BELIEVE WE'VE GOT AS CLOSE AS IT'S POSSIBLE TO DO WITHOUT LOOKING INHUMANLY SMUG ALL YOUR LIFE. AND IT'S FREE. SO GET ONE, MISTER.

* MORE WORLDWIDE SWAPPING CONTACTS THAN YOU COULD IMAGINE. PD COMES IN FROM ALL OVER THE AMIGA WORLD. THIS MEANS MORE EXCLUSIVE PD THAN YOU'VE EVER SEEN! AND ALL AT 50p EH, I CAN'T IMAGINE HOW IT'S DONE.....

* FRIENDLIER SERVICE THAN YOU COULD EVER DARE TO EXPECT. NO QUIBBLING RETURN POLICY GUARANTEED, AND THAT'S A PROMISE. SO, WE KEEP BLITHERING ON ABOUT HOW CHEAP WE ARE, WHAT ARE YOU GONNA HAVE TO DO TO FIND OUT OUR PRICES, SLAP US AROUND, TWEAK OUR TOES, MAKE US EAT COLD PORRIDGE ALL DAY, WELL, NO ACTUALLY, COS THE DARLIN' LITTLE PRICES FOR V1 ARE:

1-5 DISKS = 65P EACH

6-9 DISKS = 60P EACH

10+ DISKS = 50p EACH

20+ DISKS + 10 FREE = 10.00 INC P+P
P+P IS ONLY 50P ON ANY SIZE ORDER!

**SPECIAL CHRISTMAS PRESENT VOUCHERS AND STOCKING PACKS ARE NOW ALSO AVAILABLE!
CASH, CHEQUES AND P.O.'S ACCEPTED. MAKE PAYABLE TO V12-PD**

SO, OF COURSE WITH THE AMIGA MARKET IN A BIT OF A CLOUD, EVERYONE NEEDS NEW SOFTWARE IN ABUNDANCE. WELL WE CAN SUPPLY IT. NO ONE BEATS OUR PRICES, TAKE OUR WORD FOR IT, NO ONE IS IN THE SAME BALL PARK AS US. WE HAVE THE LARGEST AMIGA PD CATALOGUE IN THE WORLD, OVER 13 GIGS OF PD MATERIAL, THAT'S TWICE AS MUCH AS THE ENTIRE AMINET SERVICE, SO WHY BOTHER BUYING A MODEM? WE CAN GET THE PD TO YOU FAR MORE CHEAPLY THAN ANY ONLINE SERVICE AROUND AT THE MOMENT.

24HR TURNAROUND IS NO PROBLEM, IN FACT IT IS GUARANTEED ON ALL NORMAL ORDERS. 1.3 SUPPORT? THOUSANDS OF DISKS FOR A500'S ETC. AGA SUPPORT? EVERY AGA TITLE YOU CAN IMAGINE, AND THEN SOME! WE HAVE EVERYTHING FROM EDUCATIONAL SOFTWARE FOR TODDLERS TO GLAMOUR ENTERTAINMENT FOR ADULTS, THOUSANDS OF GAMES FOR ALL AGES, UTILS IN THEIR TENS OF THOUSANDS, MUSIC, ART, ANIMATIONS, OH BROTHER, ALL I CAN SAY IS, IF YOU NAME A SUBJECT AND WE DROPPED ALL THE DISKS WE HAD ON IT ONTO YOUR BONCE, YOU WOULDN'T ASK US AGAIN. BUT YOUR SOLICITOR MIGHT.....

AND OF COURSE, THE FIRST STEP INTO V12 PALACE (TAKE THE 12TH TURN OFF FROM THE M180) IS THE CATDISKS. WHAT DO YOU WANT FROM A CATDISK, COS IT'S LIKELY WE WILL HAVE INCORPORATED IT INTO THIS BALLISTIC LITTLE DOUBLE BARRELLED BABY! OVER 45,000 LINES OF TEXT, IT WILL AUTOMATICALLY DETECT WAHT MODEL OF AMIGA IT IS IN AND CHANGE AS BOOTS TO USE THE SYSTEM TO BEST EFFECT, HAVE A HD AND WANT TO INSTALL BOTH DISKS TO IT? NO PROBLEM, IT'S ONLY ONE MOUSE CLICK AWAY, AS WELL AS ANOTHER ICON TO REMOVE IT ALL TOO! DON'T HAVE A HD BUT WANT TO INSTALL IT TO RAM INSTEAD? NO PROBLEM EITHER, OPTIONAL RAM INSTALLATION FOR OVER 1500% SPEED INCREASE, AND ALL IN 1.5 MEG OF RAM (CHIP OR FAST)! HAVE THE STANDARD 1 MEG AND WANT TO RUN IT COMBINED FROM RAM AND FLOPPY? NO PROBLEM EITHER!! IT WILL INSTALL CERTAIN REGULARLY USED PARTS OF THE CAT FOR A 100% INCREASE IN SPEED! A MOUSE DRIVEN INTERFACE, ANIMATIONS, MUSIC, PICS, STILL HIRES LACED GRAPHICS (EVEN ON AN A500!) AND THE HUMOUROUS LISTINGS THAT WE ARE WELL KNOWN FOR. OH GO ON, SEND FOR IT. IT'S GOT GAMES TOO NOW!!!!

FOR A CATDISK, RING THE NUMBER ABOVE, OR WRITE AND ASK. IT'S FREE THIS MONTH SO GET IT AND START SEEING HOW A PD COMPANY SHOULD BE! WHAT HAVE YOU GOT TO LOSE? WE DON'T BITE YOU KNOW. WHEN YOU'RE LOOKING.....

WELL ANOTHER MONTH, ANOTHER VERY BADLY RUSHED TOGETHER ADVERT...NOTHING CHANGES. JUST THINK I'LL LEAVE YOU WITH A SMALL QUOTE FROM THE V12 BOOK OF WISDOM (AVAILABLE AT ALL SECOND RATE BOOK SHOPS), WHICH IS: YOU CAN BE BAD ALL YEAR. JUST BRIBE SANTA.....

GREETES THIS MONTH GO OUT TO WOLFGANG, TOPDOG, FREAK AND BUDDA OF NFA, ICEMAN OF CARNAGE, ICON OF LSD, MR SPOON, MICHAEL CARTER, JOHNNY 5, STEFAN MANSIER, THE BEYOND THE FRONTIER CREW (HI), ROB DAVAIU, RIGSBY, GUNTERHEIM SUPPLIES, MADONNA, KYLIE, DANNI, BONJOVI, KISS, ANDY GIBSON (DMC DESERVES

FLATBED SCANNING SERVICES

FLATBED SCANNING IS NOW AVAILABLE TO A PROFESSIONAL STANDARD, WITH DPI UPTO 2400 X 2400 DPI, EVERY FILE FORMAT FROM ILBM TO JPEG, AND EVERY RESOLUTION FROM LORES-NTSC TO SUPERHIRES-FULL OVERSCAN PAL AND CUSTOM RESOLUTIONS BEYOND THAT. WE OFFER THIS SERVICE OUT TO ANY PD COMPANY, OR ANY AMIGA BASED COMPANY AT DISCOUNT TRADE PRICES, AND ALSO TO ANY AMIGA OWNING INDIVIDUAL AT THE VERY LOW PRICES, RING US FOR DETAILS. WE ARE AT LEAST 3 TIMES CHEAPER THAN DEDICATED SCANNING BUREAUS. ANY AMIGA COMPANY WHO WISHES TO OFFER OUR SERVICE CAN ARRANGE AN AGREEMENT WITH US FOR SOME SERIOUS DISCOUNTS, SO MAKE THOSE SCANNING DREAMS COME TRUE! REMEMBER ALSO, OUR DIGITISING SERVICE, WHEN ALLIED WITH SCANNING, CAN OFFER COMPUTER REPRESENTATION OF ANY OBJECT, ANY PICTURE UP TO ABOUT 4 SQUARE METERS(!) WITH NO LOSS OF QUALITY. PLEASE RING FOR FURTHER DETAILS.

We stock all the collections including Assassin's 1-250, Fred Fish 1-1000, Scope 1-220, Amigan, Arug, New Zealand, Imagine Object collection, Clipart collection, Barbie, Amos, Legal Tools 1-149 and thousands more. we now also sell CD's cheaper than everyone else, every Amiga CD available is, erm, available from us!

16,000+ titles, that's more than a library with less than that!



CU Amiga Magazine wishes its readers a very merry Christmas. We've got a cracking tutorial section as our last one of the year. So enjoy.



Soundlab p88

78 Imagine 4.0

We kick off a new series on our fabulous Imagine 4 cover disk this month with a look at the new features included since 3.0.

84 Wired World

How to create tables in a readable form on your Web site is the next installment of our ongoing comms tutorial.

86 Net God

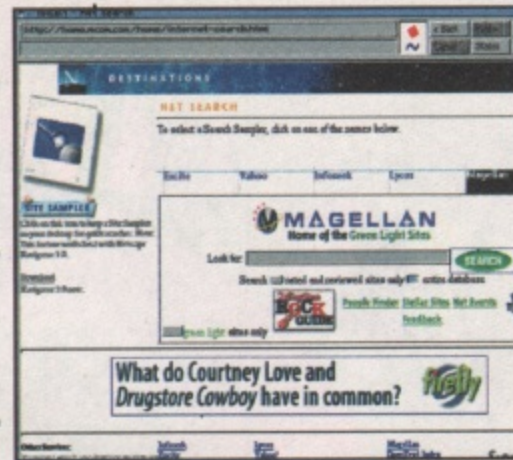
Never stuck for an opinion on any matter, Net God has something to say about giving shareware authors their dues.

87 Ultimate Amiga Quiz

Think you know about the Amiga? Prove it and win a massive goodie bag full of exclusive and obscure Amiga prizes!

88 Sound Lab

Digital Compact Cassette, or DCC, gets a thorough test this month in a Sound Lab special report. Digital mastering for £249? Yes please!



Wired World p84

96 Masterclass

James Dean, Marilyn Monroe, Martin Luther King were all great icons of the century. Find out about the unsung icons of your Workbench.

98 Q&A

Mat and Tony don their woolly thinking caps (for some extra warmth) to answer your questions on all things Amiga.



Masterclass p96

101 FAQ

Get those grey matter cells working overtime and try a little programming in Assembly.

Feedback

76 Art Gallery

Our picture of the month has a nice warm Christmassy feel to it, just to get you in the festive spirit. And there are plenty of other top notch pieces of art as well.

100 Points of View

More informed and inflamed opinion pieces from the staff at CU Amiga Magazine. Tony, Mat and Lisa let off some steam.

102 Backchat

Barclays Bank gives the Amiga a plug and we kick off our shopwatch listing. If you want to send any entries for the listing please fill out the form on page 103.

Amiga Workshop



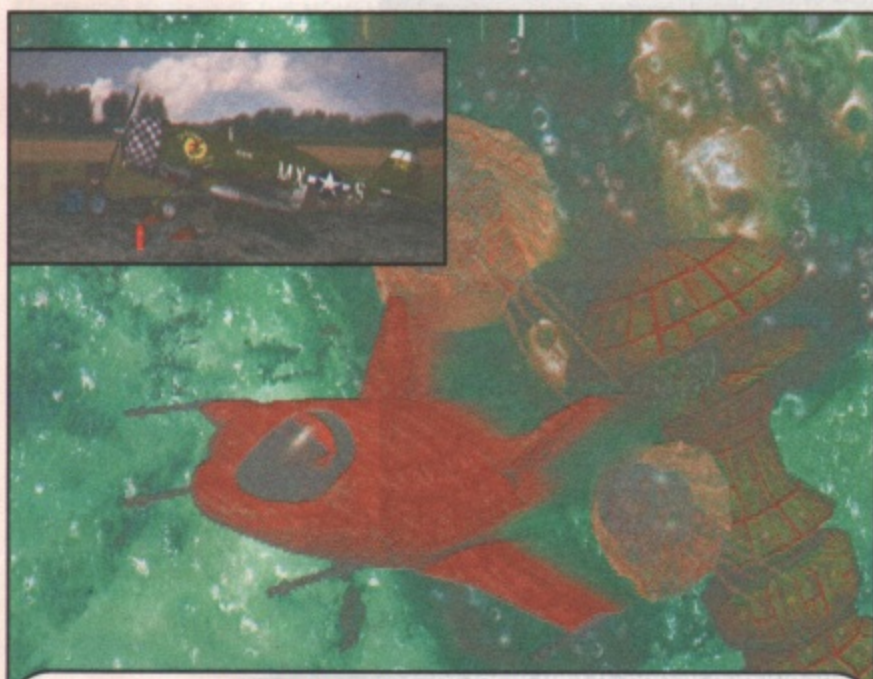
Art Gallery



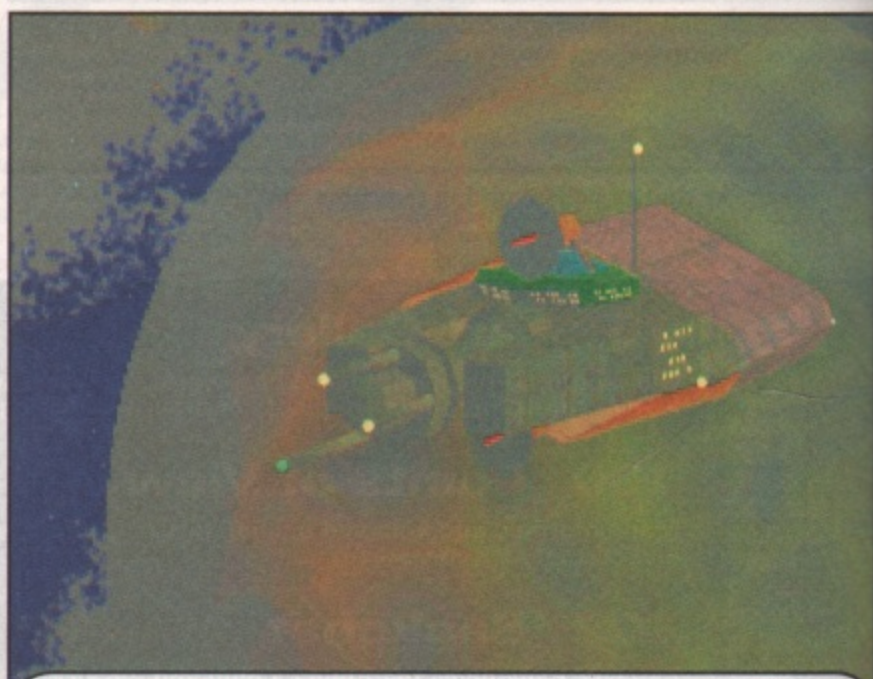
Festive art, that's what we need this time of year. See right for proof. Ahh, doesn't it just make you feel all warm and cosy inside?



Artist: These two images are from Brainstorm Multimedia (tel: 01732 844307), Mark Roules and Andy Price, who have been creating art and music on the Amiga for six years. **Amiga:** A1200, 6Mb RAM, 80Mb HD **Software:** DPaint5

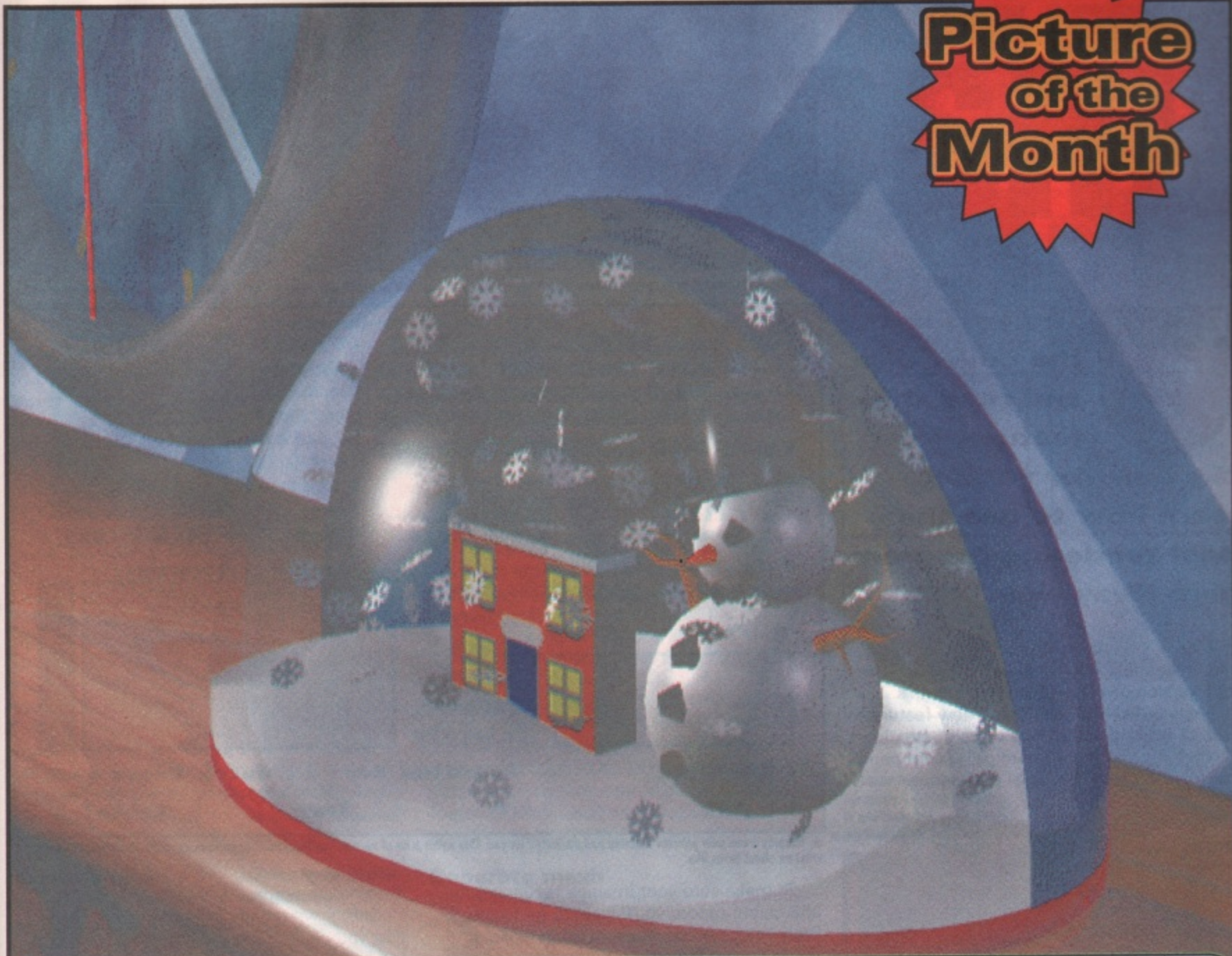


Apologies to Derek Thompson whose artwork shown here appeared last month under the wrong name.



Artist: J.R. Tolson, Goole. **Amiga:** A1200 **Software:** Imagine, DPaint4.

Picture of the Month



Artist: Mark Sheeky, Cheshire.
Amiga: A1200/030

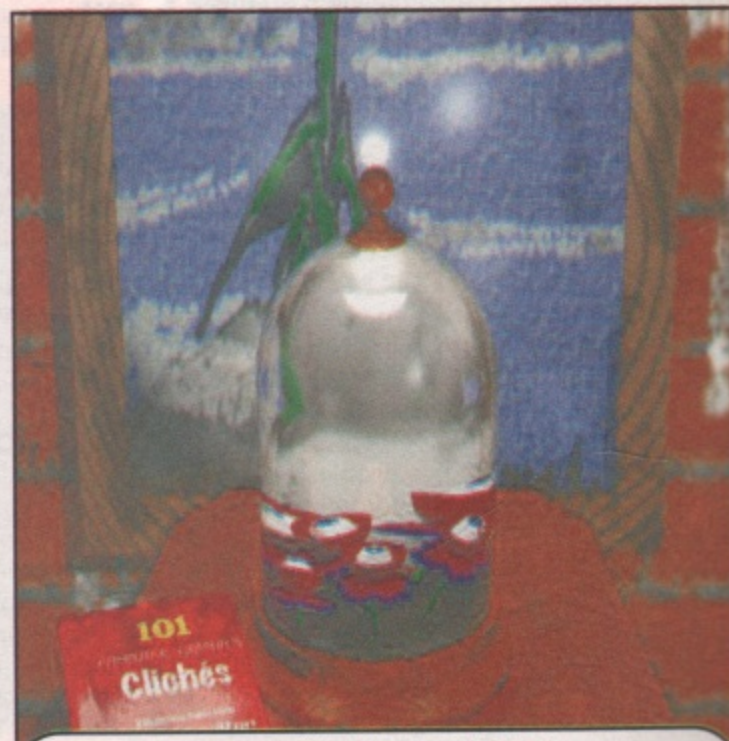
Software: Imagine 4



©Andy Kinsella 1995. "MADE IN AMIGA"

Artist: Andy Kinsella, Lancashire.
Amiga: A1200

Software: Imagine 3.0, ImageFX, DPaint5



Artist: Andy Kinsella Amiga: A1200
Software: Imagine 3.0, ImageFX, DPaint5

Imagine 4.0

PART 1 You've got the cover disk and read the feature. Now

it's time for you to learn how to use the best rendering program give-away ever.

Imagine is one of the most powerful image rendering systems available. The version given away on this month's cover disk includes brand new features which add whole new ways of creating images. Nothing on the Amiga, except perhaps the professional level package LightWave, can get close.

Over the next few months we'll be explaining what these new features are, how they work and how you can use them to their best advantage in your own projects. Whenever possible, we'll include some examples on the cover disk or CD-ROM so you can try them out for yourself.

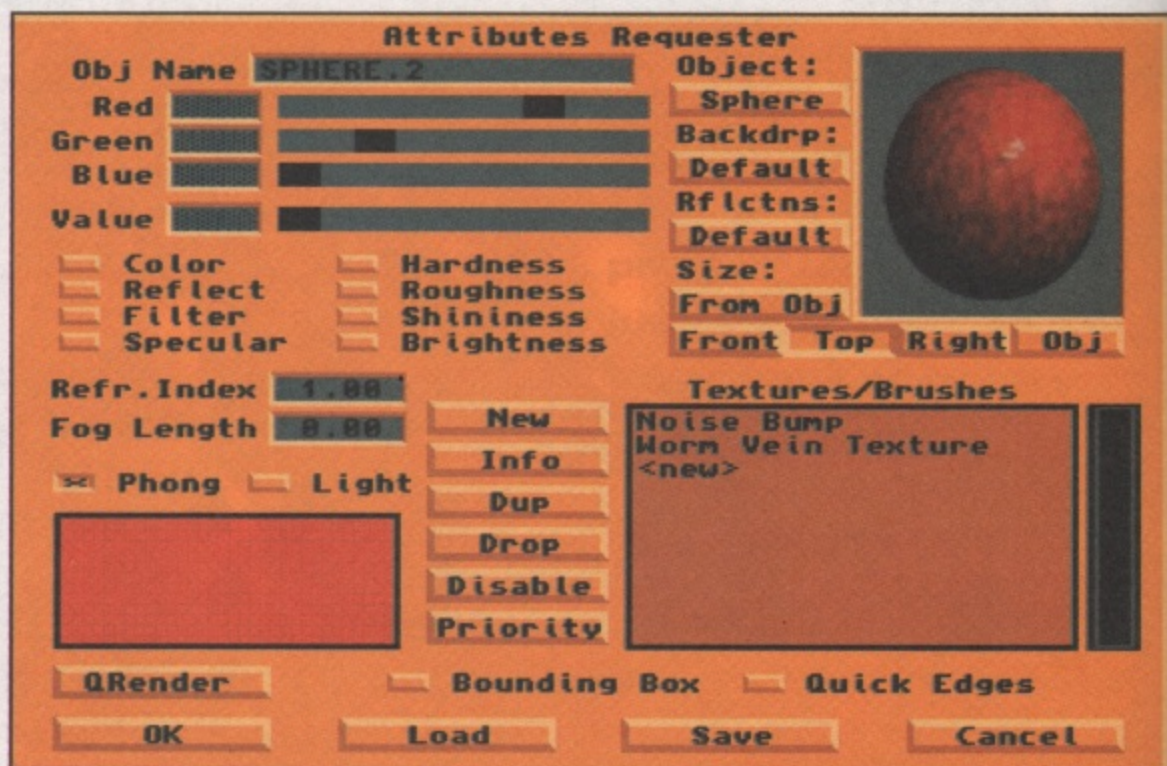
As Imagine 4 works much the same way as previous versions, you can safely refer to the tutorials in previous issues for any extra help that you may need (Imagine 3 tutorials ran from January 96 to November 96).

Also, we'll hopefully be putting these tutorials onto a forthcoming CD-ROM cover disk in HTML format for easy access and to save time having to relocate all the old issues of CU Amiga Magazine that they appeared in.

New AGA modes

Support for AGA screen modes is one obvious new improvement in Imagine 4 (as well as some support for larger screen modes used by graphics cards). Most importantly, this allows an editor display of 256 on-screen colours and this enables textures and attributes to be test-rendered before you apply them.

If you have a reasonably fast AGA Amiga (i.e. an A1200 with a 030 or better, or an A4000) then you should try this graphics mode as it will help you get a feel for how the attributes work. There is a pay-off in terms of speed but it's worth it especially when you are getting to know how the program works.



▲ Imagine 4 can now preview textures and attributes for you. This saves a lot of time as you don't need to perform an entire Quickrender to see what an effect looks like.

To make sure your Imagine is running in 256 colour mode, you'll have to go to the Preferences editor. You'll need to make sure the following are set properly:

Mnemonic	Value	Comment
USAA	T	Use A(G)A chipset if available
S256	T	Run 640 by 480 Imagine in 256 colour mode
RTGS	T	Show real-time grey scale image
SMOD	0	Imagine screen width 0=640

With these settings saved, quit and restart Imagine. When you go to the Detail editor and adjust an attribute, you should see a new 256 colour preview.

Blobbing out

Blob modelling is a new feature to Imagine 4. Creating realistic organic shapes has always been tricky in rendering programs but Imagine tries to make it easier by introducing the concept of blobs.

A blob is a group of spheres, with a special skin applied to them to join them up. Think of some marbles inside a balloon with the rubber stretched in all directions by the marbles. If you can manage to picture this, not only do you have a very overactive

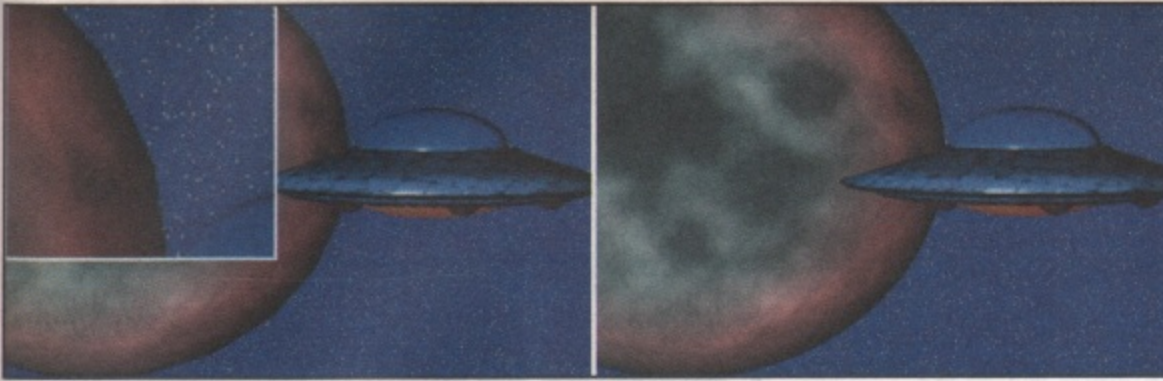
imagination but you've sussed out blobs.

Before we go any further, it's essential that you understand the difference between the two different types of Sphere which Imagine uses. There's the Sphere which is added when you use the Add Primitive option (F5) and there is the Sphere which is added when you use the Object menu option Add Sphere.

The Sphere added via the Primitive menu is an object constructed from facets which behaves a lot like a Sphere. In fact, if you don't look too closely, the object created with the default settings is often perfectly acceptable. However, zoom in a little and you start to see that the outline is composed of a series of straight lines and isn't a perfect sphere at all.

You can adjust the number of edges and points when creating the sphere object, and eventually you'll get to the point when it looks good enough. The bad news is that the more points and faces you add, the more memory is consumed and the longer the render times become.

To help counter this problem, Imagine offers another Sphere: the perfect or CSG Sphere. Although this sphere looks like any other in the editor views, it's entirely different. When it comes to rendering, Imagine knows that it is a perfect sphere (and not an object which happens to look like one) and treats it accordingly. As a result, the CSG



▲ The image on the left was rendered in Scanline mode, the image on the right was Ray Traced. Notice how the curvature of the planet changes (shown in magnified inset) and yet the curved surfaces on the flying saucer remain the same.

Sphere is rendered a lot more quickly and takes up less memory.

So why use the other sort of Sphere at all? The CSG Sphere has some severe limitations. First of all, it cannot have its shape altered. You cannot squeeze or stretch it: if you did, it wouldn't be a sphere any more and so Imagine couldn't use its short cuts when rendering.

Secondly, when rendering in Scanline mode, the special Sphere rules cannot be applied and the CSG sphere is automatically converted back into a facet-based object.

For example, say you want to create a planet for a space animation. You use the CSG Sphere, apply some textures and place in the middle of a starfield. You then create a spacecraft and have it fly past the planet.

If you render the scene in Ray Trace mode, everything will look fine. The planet will have a smoothly curved surface. However, use the faster Scanline mode, and

the limb of the planet will look as if it's been constructed from straight lines (because it has).

Imagine 4 helps a bit and allows you to control the number of points used when a CSG Sphere is rendered in Scanline mode. If you go to the Preferences editor, you'll find an option called SPHP. Increase this number, and the Sphere will appear smoother.

A load of spheres

The point of this, is that Blobs can only be constructed from CSG Spheres and no other object. With that out of the way, it's time to create some blobs. Starting a new project in the Detail editor, add three Spheres using the Object menu item Add Sphere. It's just as easy to add one sphere, and then Copy and Paste. Arrange them as in the first picture just below the eight examples of different attributes shown right. Once you've selected a blob you can now use the Blob options. There are three options at the bottom of the object menu which are as follows:

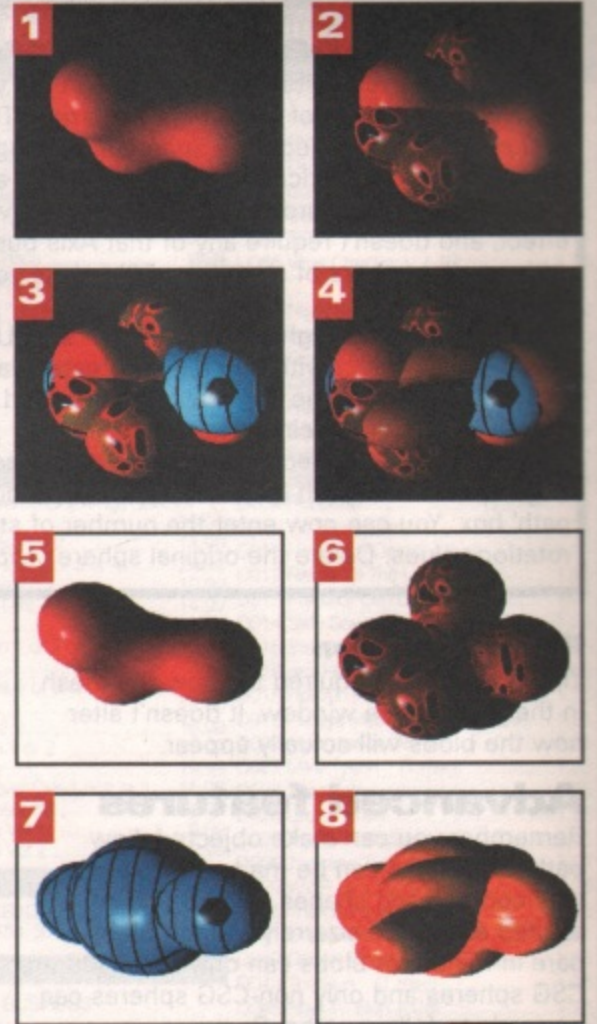
CSG Sphere	Ordinary Sphere
It's a perfect sphere	Limited by the number of points
Uses a small amount of memory	Uses memory depending on points
Cannot be altered	Can be reshaped.
Cannot be edited as points/faces	Can have points/faces moved or deleted
Renders perfectly in Ray Trace	Obvious facets in all render modes

Generate mesh

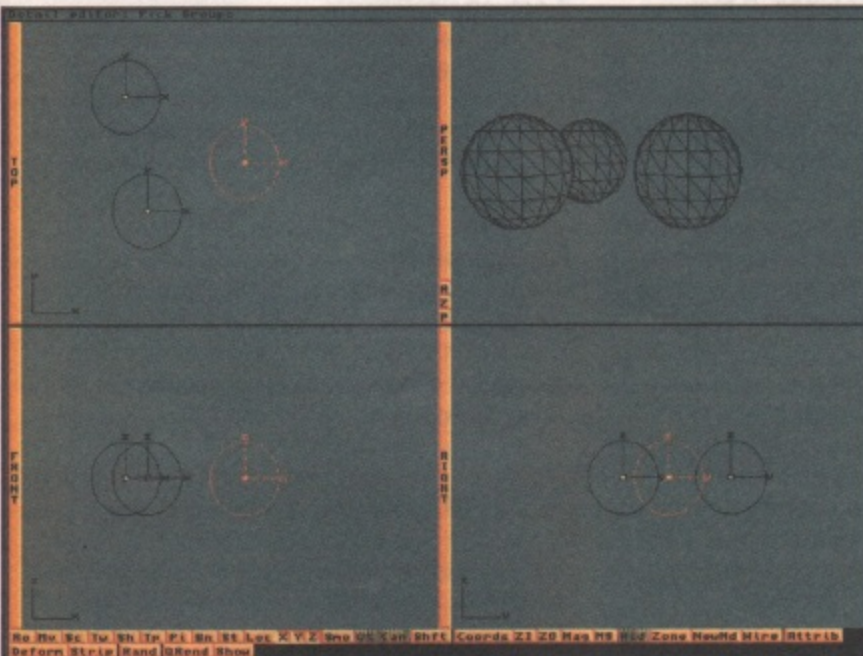
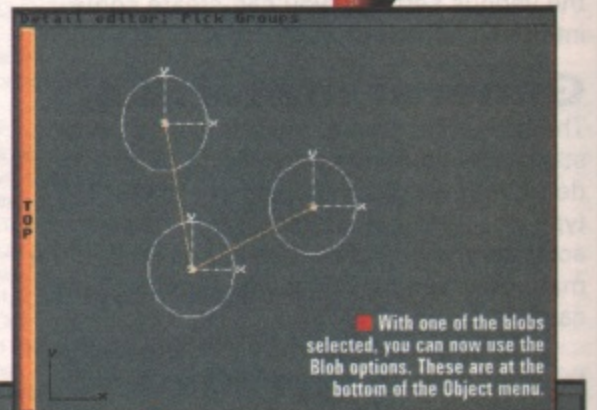
This creates the skin which joins the spheres together, creating the blob.

Blob Attributes

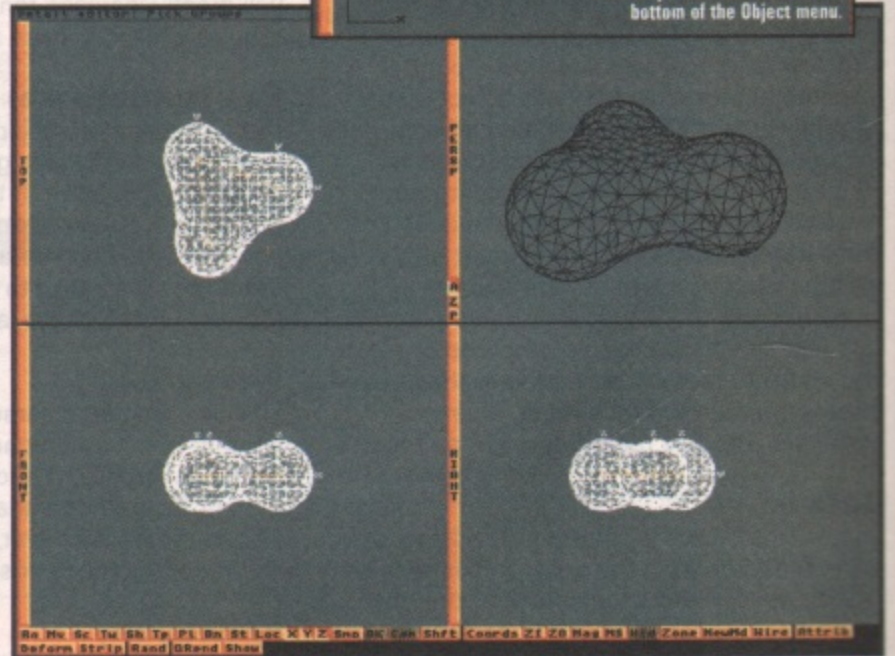
This allows the blob to be fine tuned (!) by adjusting the detail in the mesh, and the strength of the attraction between them. Think of the how the marbles in the balloon can stretch the rubber tightly or not so tightly.



▲ Above: examples of different attributes using the blob to add to the scene. Try altering Strength for some weird results.



▲ Now select them all and use the States menu to Group them all together. You'll see a line appear, joining their axes together, as shown above.



▲ When you select Generate Mesh, the blob will be created. You can see the effect immediately in all three windows.

How to make your own starfield

I've had a few requests regarding the 'Create your own Starfield' project in the November issue of CU Amiga Magazine. There appears to be a problem assigning an Axis object to a Sphere and using that as the path. If you remember, this spherical path was then used as a way of scattering lots of smaller star objects around. Here's a simpler way to achieve exactly the same effect, and doesn't require any of that Axis business. Remember to start off with small numbers of stars (say, 50) unless you have a lot of memory (say, 8Mb or more).

Create a small, bright, object as your star. Use the Cone primitive to create a tiny pyramid object with four sides. Create a large sphere object. If you have lots of memory, up the number of points used to define the circle. Stick with the details for the time being.

Select the star object, and use Mold/Replicate. Now enter the name of the large sphere as a path (you won't be able to do this until you click in the 'Along path' box. You can now enter the number of stars, and play with the scaling and rotation values. Delete the original sphere. And that's it!

Persp Mesh Den

This is the detail required to show the mesh in the perspective window. It doesn't alter how the blobs will actually appear.

Advanced features

Remember you can make objects follow paths and paths can be made to trace out very complicated shapes. Before you get all excited about the bizarrely-shaped blobs, bare in mind that blobs can only be based on CSG spheres and only non-CSG spheres can be made to follow paths. Bummer.

If you want to construct complicated shapes and blob-ify them, you'll have to place them all manually.

Note that you can stretch the distance between blobs, and with a little tinkering with the various settings, you can create some interesting shapes.

General materials

The key to successful rendering is to understand how your image rendering program deals with various materials. No matter the type of scene you are creating or how accurate the objects which appear in it, if the materials used looks false, the entire scene can be spoilt.

All rendering programs allow fine-tuning of the appearance of objects through several different attributes. These attributes control how the object effects the light around it. A glass object for example, will reflect some light (glass is reflective) but also let light pass through it (glass is transparent). Glass will also cause the light to be bent as it passes through it (glass has a refractive index). The glass itself may be coloured, and it may have a rough or a smooth surface.

By altering the value of all these parameters you can create exactly the type of glass you want: in fact, by playing with these parameters you can create a huge variety of materials. The key parameters are as follows:

Colour

The most obvious parameter. As you would expect, this defines the base colour of the object, nevertheless the colour of the object in the final render will depend on the colour of any lights illuminating the scene, as well as other object attributes.

Bright

Some programs allow objects to be 'bright', which means they are unaffected by any lighting in the scene. A bright object will not be shaded, and will always be visible even if there are no light sources. However, this doesn't necessarily mean they are light sources themselves. Bright objects are useful for adding detail: for example, a large spaceship may have lots of windows on its surface and these could be quickly made from small bright rectangles.

Light source

Sometimes an object can be turned into a light source, which means it can illuminate other objects. The colour of the object may affect the colour of the light it emits.

Transparency (filter)

A measure of how much light an object lets pass through it. Most objects will be 0% transparent, i.e. opaque. However, glass and water are 90% or more transparent. Most programs let you control transparency for each colour separately.

For example, a piece of blue glass will let only blue light through, and will block red and green light. Transparency is one setting which will greatly increase render times. It may require a full Ray Trace to be seen properly.

Fog (turbulence)

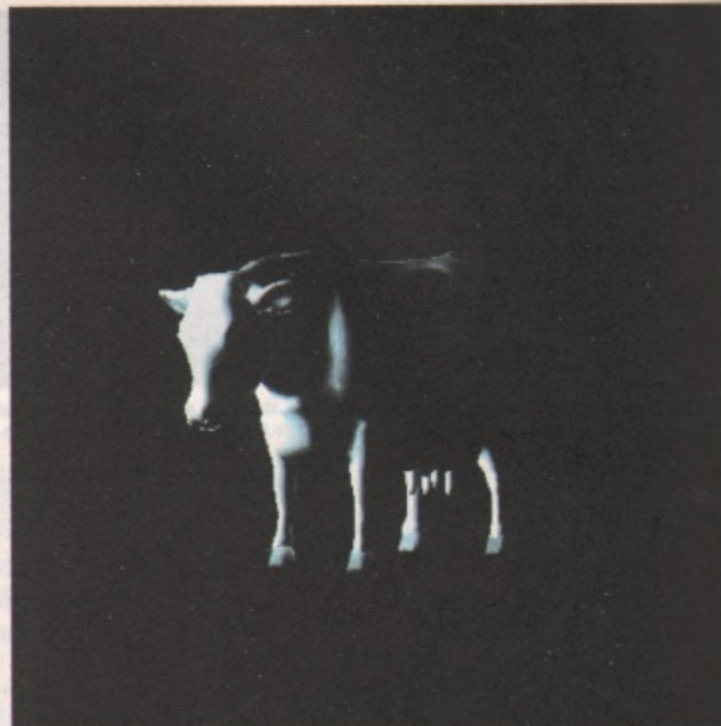
Not all transparent objects let light pass through as clearly as a glass window. Think of a thin piece of tissue paper, or even frosted glass. This setting allows you to define how the light is disrupted as it passes through the object. It's useful to make effects such as fog, or to make visible laser beams.

Phong

This is a shading characteristic (there is another less used technique called Gourad shading). An object such as a sphere will benefit from Phong shading, as it will smooth all the edges. However, a cube object won't as it needs to have crisply defined edges.

Reflectivity

An object can reflect light to varying degrees. A mirror will reflect close to 100% of the light



▲ Cattle in space! The famous Imagine cow, this time surrounded in a complicated starfield object which animates and pans properly.

which is incident upon it. The surface of a swimming pool, or a highly polished desk will also reflect light. The colour of the reflected light depends on the colour of the light incident, and the colour of the object. This is another attribute which greatly increases rendering times.

Specularity and hardness

Objects which are smooth and hard will have a small dot of reflected light on them: the size of the spot depends on the hardness of the object.

This is quite a subtle effect, but when you experiment with the settings you soon see the difference it can make. It's these values which enable you to tell the difference between a ping pong ball and a snooker ball.

Refractive index

As light passes through an object which is more dense than the air around it, it is bent. This is how lenses work and why the bottom of a swimming pool looks closer than it actually is.

Most rendering packages will attempt to copy this effect, by allowing the refractive index of a material to be altered. An index of one means that the light is not bent. It only takes slight variation to obtain realistic glass or water.

Roughness

Some programs allow the surface of an object to be rough and scatter light upon it. This effect is best left to textures though, especially if the object is too animated. ■

John Kennedy

Whatever next?

That's it for our first tutorial on this great package that you'll find on this month's cover disk. Next month we'll be looking at textures and brushmaps. Our generic 3D rendering series will also resume then.

POSTAGE & PACKING
UK - INCLUDED
EUROPE - £ 2.00
REST OF WORLD- £ 3.50

Premier Mail Order

TEL : 01268 271172
FAX : 01268 271173

Please Send Cheques/POs Made out to Premier Mail Order or Visa/Mastercard/(Switch + Issue No) & Expiry Date to:
Dept:CU12 9-10 THE CAPRICORN CENTRE, CRANES FARM ROAD, BASILDON, ESSEX SS14 3JJ
Mon-Fri 9am-7pm Sat 10am-4pm. Please note: Some titles may not be released at the time of going to press.
Most titles are despatched same day, but can take up to 28 days. VAT is included on all titles

	500	1200	CD		500	1200	CD		500	1200	CD		500	1200	CD
Attack Sub	10.99			Prem Man 3 Multi Edit Sys	10.99			TRIPLE ACTION 2 - SecondsOut, Hunter, Lancaster	24.99			Multimedia Toolkit 2	24.99		
AS20 DESKTOP/MINUTE/PACK-Workworth				Prime Mover	17.99			TROLLS	3.99		19.99	Network CD2	14.99		
Arch Manager, Disk Paint 4, Dennis				Pushover	8.99			TURBO PACK 3	3.99			Octamed 8	24.99		
Archer		12.99		Realms	10.99			Universe	4.99		8.99	Professional Fonts & Clipart	9.99		
A320 APPROACH TRAINERS	9.99			Rise Of The Robots		12.99		VIRTUAL KARTING		12.99		Professional IFF & PCX Library	19.99		
Aibus A320 V2.0	16.99			Risky Woods	10.99			VITAL LIGHT	4.99		4.99	Professional Utilities 1-1500	19.99		
Aaddin		19.99		ROADKILL		7.99	7.99	WEMBLEY INT SOCCER		7.99	7.99	Sound Library & GFX Library	19.99		
Arden Breed 3D 2		22.99		Road Rash	10.99			WEMBLEY RUGBY LGE7.99				Textures 1	32.99		
Archer Macleans Pool	10.99			Rugby League Coach	19.99			WHITE DEATH	4.99			The Beauty Of Chaos	9.99		
Assassins Games		19.99		Ruffian	13.99			Wolfchild	4.99			The Colour Library	9.99		
Award Winners 2	19.99			SENSIBLE GOLF	14.99			Wonderdog	4.99			The Light Rom	32.99		
A17 FLYING FORTRESS	12.99			Sens Wrld of Soccer 95/96	16.99			WORLD CLASS RUGBY 954.99				The Light Rom 2	32.99		
Aanshee		7.99		Shuttle	12.99			WRECKERS	3.99			The Light Works	24.99		
Ards of Prey	12.99			Skitchin	17.99	17.99	17.99	Zoo	8.99		8.99	UPD Gold	24.99		
Black Crypt	10.99			SLAMTILT	19.99			EDUCATIONAL				World Of Clipart	9.99		
Bastor	17.99			Sleepwalker	8.99	8.99		10/10 Dinosaurs	12.99			World Of GIF	9.99		
BUTZ BASIC 2.1	18.99			SOCCER STARS 96	22.99	22.99		10/10 Early Essentials (3-7)	12.99			World Of Photo	9.99		
Bitz Tennis	19.99			Soccer Team Manager	10.99			10/10 English (6-16)	12.99			World Of Sound	9.99		
Bloodnet	14.99	14.99		SPECIAL FORCES	8.99			10/10 Essential Maths (5-12)	12.99			Over 18's CDROM			
Body Blows Galactic		22.99		Speris Legacy		19.99	19.99	10/10 Essential Science (5-12)	12.99			Glamour Titles - Over 18 Only Amiga CDROM			
Bravo Romeo Delta	8.99			Spherical Worlds	17.99		17.99	10/10 French (6-16)	12.99			Adult Sensations	19.99		
BREATHLESS		22.99		Star Crusader		14.99		10/10 German (8-16)	12.99			Asian Dream Girls 1 or 2	14.99		
BRUTAL FOOTBALL		8.99		Star Fighter		19.99		10/10 Junior Essentials (5-11)	12.99			Asian Pleasures 1 or 2 or 3 or 4	29.99		
BRUTAL PAWS OF FURY		19.99	14.99	STARLORD	8.99			10/10 Maths Algebra (6-16)	12.99			Coloureds & Asians	10.99		
Budokan	10.99			STREETFIGHTER 2	18.99			10/10 Maths Geometry (6-16)	12.99			European Dream Girls 1 or 2 or 3	14.99		
Burntime	17.99	17.99		STRIP POT	7.99	7.99		10/10 Maths Numbers (6-16)	12.99			Hot Pie	9.99		
Cannon Fodder	12.99			SUBVERSION	4.99			10/10 Maths Statistics (6-16)	12.99			Hot Spot Women 1 or 2 or 3	15.99		
Cardiacc	8.99			SUPER LEAGUE MANAGER	7.99	7.99	7.99	10/10 Spelling Punctuation	12.99			Naughty Ones	3.99		
CHAMPIONSHIP MANAGER 219.99				SUPER SKIDMARKS	7.99		7.99	10/10 Structured Spelling	12.99			Oriental Fantasies 1 or 2 or 3	15.99		
CHAOS ENGINE 2	19.99	19.99		SUPER STREETFIGHTER 2 TURBO		14.99	14.99	Better Spelling (8-10)	13.99			Photo Studio	15.99		
CLB FOOTBALL THE MANAGER 7.99				SUPER TENNIS CHAMP 7.99		5.99		Better Maths (12-16)	13.99			Pin Up Girls Vol 2	16.99		
Club & Country	7.99			SUPER TENNIS CHAMP 2 DD		5.99		Cave Maze (8-12)	10.99			Pixels of Passion 1 or 2	29.99		
Core A1200 Bundle - Skeleton Krew,				Supremacy	10.99			Fraction Gobins (8-13)	10.99			Sexy Sensations	19.99		
Cosmic Spacehead	17.99			Syndicate	12.99			Insight Dinosaurs	14.99			Scandinavian Cover Girls 1 or 2 or 3	15.99		
COVERGIFL POKER	7.99			TEST MATCH CRICKET 4.99				Junior Typist (5-10)	10.99			Women From Lesbos 2	15.99		
Craft For AMOS	17.99			The Clue		19.99		Kid Fix	10.99			World Of Pinups Vol 1	9.99		
CRICKET MASTERS	18.99			The Games	10.99			Magic Maths (4-5)	13.99			World Of Pinups Vol 2	12.99		
Deluxe Paint V	59.99			Total Football	22.99			Maths Dragons (6-13)	10.99			BLANK 3.5" DISKS			
Desert Strike	10.99			Touring Car Challenge	12.99			Maths Mania (8-12)	13.99			RECYCLED DS/DD Low Density			
DOG FIGHT	8.99			Tower of Souls	19.99	19.99		Picture Fractions (7-10)	10.99			10@ 2.99 20@ 5.50 50@ 12.50 100@ 22.50			
Dune 1 or 2	12.99			Traps & Treasures	17.99		17.99	Reasoning With Trolls (5-12)	10.99			PD & Shareware			
Dungeon Master 2		22.99		Treble Champions 2	4.99			Tidy The House (6-10)	10.99			BUSINESS			
Emerald Mines		12.99		Turbo Trax	19.99			ROBIN HOD (8+)	13.99			B001 A-Gene (1 meg)	1.25		
ENIGMA		19.99		Turning Points	12.99			Scrooge - Xmas Carol (8+)	13.99			B004 Ami Cash	1.25		
Epic	12.99			UFO	12.99			The Three Bears (5-10)	13.99			B005 Amibase Prof	1.25		
EUROPEAN CHAMPIONS	8.99			Ultimate Golf	8.99			Wind In The Willows (6+)	13.99			B006 600 Business Letters	1.25		
EXILE	7.99	7.99	7.99	Ultimate Soccer Manager		19.99		Wizard Of Oz	13.99			B011 A-Graph	1.25		
EXILE DATA DISK	5.99			Uncovered	17.99			JOYSTICKS & ACCESSORIES				B013 Analytic ALC	2.50		
Extractors		19.99		VITAL LIGHT		4.99		100 Capacity 3.5" Disk Box	7.99			B015 Stock Analyst	1.25		
EXTREME RACING	7.99			Watch Tower	16.99			4 Player Joystick Adaptor	4.99			B017 Budgets V1.34	1.25		
EXTREME RACING D/D5.99				Wheel Spin	19.99			Accelerator 68020 EC Base for A500/+	95.99			BUSINESS			
F19 STEALTH FIGHTER 12.99				Wing Commander	12.99			Amitek Fusion Genlock	94.99			B002 The Bible (4 Disks)	4.99		
F29	10.99			Winter Gold	12.99			Analogue Joystick Adaptor	4.99			E002 World Databank	1.25		
F117A	8.99			Wizkid	10.99			Automatic Joystick/Mouse Splitter	14.99			E006 Total Concepts	1.25		
FEARS		7.99		World Cup Golf		29.99		CH FLIGHTSTICK (ANALOGUE)	(AAR) 29.99			E007 Bank Talk	1.25		
FIELDS OF GLORY	12.99	8.99		World of Football	19.99			External 880K Floppy Drive	59.99			E008 Dunks DTP	1.25		
FOOTBALL MASTERS	16.99			World of Soccer	4.99			Internal 880K Floppy Drive A500	47.99			E009 Colour The Alphabet	1.25		
FOOTBALL STATSWIFFO	14.99			Worlds at War	6.99			Internal 880K Floppy Drive A600/A1200	49.99			E010 The Highway Code	1.25		
FORMULA ONE MASTERS 16.99				WORMS	9.99	9.99		JUPITER JOYSTICK	7.99			E011 Junior Maths	1.25		
Gamer Grid Collection-Bump N Burn + Jetstrike +Nick Faldo's Golf			19.99	WORMS DIRECTORS CUT	18.99			Mouse	10.99			E012 Electronic Train Set (1 MEG)	1.25		
Gearworks	7.99			XP 8	19.99	19.99		Mousemat	1.99			E013 Learn & Play 1	1.25		
GLOOM		7.99	7.99	ZeeWolf	12.99			Joystick/Mouse Extension Cable	6.99			E014 Learn & Play 2	1.25		
Gloom 2		19.99		ZEE WOLF 2 - WILD FIFE	22.99			Joystick V Splitter	4.99			E015 Treasure Hunt	1.25		
GLOOM DELUXE	7.99			SPECIAL OFFERS				Logic 3 Delta Ray Autofire JY156	10.99			E016 Wrathful One	1.25		
G GOOCH-2ND INNINGS 4.99				BADLANDS PETE	4.99			Logic 3 Alpha Ray - Autofire	10.99			E017 Story Land 2	1.25		
G GOOCH-WC TEST MATCH 7.99				Body Blows	12.99	12.99		Logic 3 Sigma Ray - Autofire	12.99			E018 Wotitsname	1.25		
G GOOCH-W CLASS CRICKET 7.99				Bubba n Stix	4.99	4.99		POWER SUPPLY UNIT	39.99			CREATIVE			
G Gooch-94/95 D/Disk	4.99			BUBBLE & SQUEAK	7.99	7.99	7.99	Quickjoy Pedals SV129	9.99			C002 Label Designer	1.25		
G Gooch-Battle for Ashes 4.99				CHAOS ENGINE	6.99			Quickjoy II Turbo SV124	10.99			C003 Super Fonts	1.25		
GUARDIAN		7.99	7.99	CHUCK ROCK		4.99		Screenbeat 3 Speakers SB203	12.99			C005 Deluxe Paint Tutor	1.25		
Hard Nova	8.99			Chuck Rock 2		4.99		Screenbeat 4 Speakers SB204	11.99			C006 Shadow Demo Maker	1.25		
Help! Completion-Sensible Soccer Euro Champs, Push Over, Road Rash, Cool Spot, The Humans, Desert Strike			12.99	ClockWiser	9.99	9.99	9.99	Screenbeat 5 Speakers SB205	11.99			C009 Illinois Labels	1.25		
HUMANS 3		14.99	14.99	COALA		12.99		Screenbeat 25 Speakers SB 225	21.99			C011 Word Power	1.25		
IMPOSSIBLE MISSION	8.99	8.99		COLONISATION	12.99			Screenbeat Pro 50 Speakers SB250	32.99			C012 Font Farm	1.25		
Immortal	10.99			Cool World	8.99			Screenbeat RCA Adapter Cable	1.99			C013 Wine Maker	1.25		
Indianapolis 500	10.99			Corporation	4.99			Screenbeat Power Supply	7.99			C014 Assassins	1.25		
International One Day Cricket 4.99				Dennis		12.99		Thrustmaster XL Joystick (AAR)	27.99			C016 Garden Designer	1.25		
INTOS - AMOS	16.99			Dragonstone	4.99	4.99		SO HO CDROM				C017 X Beat	1.25		
Jimmy White's Snooker	12.99			FIRE FORCE		4.99		Amiga Tools 3	24.99			UTILITIES			
John Madden Football	10.99			FIRE & ICE		6.99		Amiga Utilities 2	19.99			U003 The Workshop	1.25		
KGB	12.99			Football Glory	8.99	8.99		Aminet Set 1 or 2	24.99			U008 Asteroid	1.25		
Kick Off 3		9.99		GLOHAMFONSH-FOOTBALL 3.99		4.99		Aminet 7,8,9,10,11 or 12	14.99			U010 Autograph	1.25		
Kick Off 3 Euro Champs		9.99		GLOBAL EFFECT		4.99		Aminet 94-02	9.99			U014 Panasonic Printer Driver	1.25		
KICK OFF '96		12.99		Heimdal	4.99			Amos CD	19.99			U015 H.P. Printer Driver	1.25		
Kingpin	10.99	12.99	12.99	Heimdal 2		7.99		Animations	19.99			U016 Seiksha Printer Driver	1.25		
LEGENDS		8.99	8.99	HYPERDOOME		4.99		Artwork Colour	9.99			U017 Cannon & Citizen Printer Driver	1.25		
Lure Of The Temptress															

100+ DEMOS

A very impressive collection of over 100+ demos.
100+ DEMOS PACK ONLY £6.99

COMMODORE C64 GAMES PACK

45 C64 GAMES..£3.99
100 C64 GAMES..£6.99
200 C64 GAMES..£13.99
500 MEGA C64 GAMES PACK...£21.99

SPECIAL AMIGA PACKS

MEGA 1000
Spectrum Games pack
Only £29.99 +£2.50 (p&P)
(All on floppy disk)

ALIEN & UFO

Alien & UFO (9 disk) only £8.99

UFO THE CLOSE ENCOUNTER

101 GAMES PACKS

the original 101 games pack. Amazing value over 100 assortment of various types of games. Very easy to use menu system, suitable for all Amiga. only £9.99

101 GAMES PACK II
only £10.99

101 GAMES PACK III
only £11.99

Various pack

All pack below come on 5 disk only cost £4.99 per pack

Clip-Art

CG-fonts

3D Object

Other

EDUCATIONS

E021 STORY LAND II interact puzzle games rec
E023 TALKING COLOURING BOOK talking Dpaint brrl
E024 EASY SPELL II improve your kid spelling
E025 SCRABBLE requires 2-4player. Brilliant
E027 OSWALD Very colourful large cartoon game
E030 EVOLUTION breed your own hybrid
E031 IQ TEST + IQ GAMES pack 1 excellent
E033 TYPING TUDOR very good typing tutor
E038 AMIGA TUTORIAL 7 part tutorial
E039 COMPUTER CARE how to care about AMIGA
E051 INVISIBLE WORLD brilliant recommend
E075 WORLD-WAR 2 graphics tutorial on worldwar
E094 HIGH WAY CODE TUTOR on highway code
E96 READ & LEARN (2D) THREE LITTLE PIGGY Story
with speech & graphic. brilliant recommend
E097 BACK TO SKOOL (3) collection of the best
E100 LITTLE TRAVELER information on world wide
E101 WORLD GEOGRAPHY world with map & text.
E103 DISCOVERY OF THE ATOM. Tutorial
E109 MR MEN OLYMPIC (2D) many event to complete
E118 WORKBENCH 2 tutorial on Work Bench 2
E121 PICTURE PUZZLE brilliant JIGSAW type games
E122 WORD FACTORY Brilliant, teach kid words
E126 CHILDREN SONG 2 contain 5 excellent song
E175 FRANTIC GUIDE TO COMPUTER(2D)brilliant
E256 EARLY LEARNER teach kids how to read

PRINTER PACK II

A Brand new collection of printer software, Need to print a picture, neat text booklet etc. etc. Must for any person highly recommend, run on all Amiga system

KID DISK PACK 1-3

Brilliant collection of education programs ideal for teaching various subjects while retaining the fun and games element.
5 disk set only £4.99

EDUCATION PACK 1....£4.99

Various education programme & education games
5 disk set only £4.99

EDUCATION & 21 GAMES

Collection of the best mixture of education games, math, physics, dinosaur ect & 21 games pack. Compatible with all AMIGA
5 disk set only £4.99

EDUCATION & 21 GAMES II

NEW All new education pack & 21 games, highly recommend
5 disk set only £4.99

AMIGA GAMES PACKS

BOARD GAMES PACK II

A super collection of the very best board games ever released include monopoly, scrabble, chess checkers etc. Highly recommend run on all Amigas
5 disk set only £4.99

BOARDS GAMES 3

The very latest board games pack 3, This pack contains 23 all new board games, Must for all board games fans
5 disk set only £4.99

Other

VARIOUS WORKBENCH ESSENTIAL UTIL.

OVER 18 ONLY DEMOS PACK 1,2,OR,3.
LOTTER WINNER PACK
1000S GAMES HINT & CHEAT II

HARDS-WARE Project 3

Build dozen of project included an accelerator for £15, put your Amiga in tower case, use PC part eg Disk drive, ect H recommend, not suitable for beginner
3 disk set only £5.00

AGA/A 1200/A4000

AGA008 KLONDIKE DELUXE AGA (3D) best A1200 card games with glamorous lady as cards face 18 + only
AGA013 MOTOR INVADER 2 (2D) Brilliant INVADER game
AGA021 MAGIC WORKBENCH improve the your WB & add some function to your WB really BRILLANT
AGA41 ADULT SLIDE Vol 1-9 (2 disk each)
AGA62 BODY SHOP VOL 1-7 (2 disk each)
AGA80 FITCHICK vol 1-3(2disk each)
AGA102 AGA DIAGNOSTIC - new system tester
AGA138 OFFICIAL WORKBENCH 3 Harddrive installer
AGA139 WB3 HARDDISK PREF & INSTALLER installing
AGA140 CROSS DOS PLUS v5.1 read/write PC files
AGA145 BIG TOPS (18 + only)HMMmm
AGA170 CINDY CRAWFORD Vol II (2disk)
AGA174 MAGIC WB EXTRA vol 1 & 2 (2disk)
AGA230 LOVE 2 disk-simply brilliant DEMOS
AGA295 DE-LUXE MONOPOLY- Board game.
AGA296 DONKEY KONG Arcade classic conversion
AGA297 BOMB PAC Extremely good to play
AGA299 DE-LUXE SCRABBLE-new version
AGA303 PAMLA ANDERSON (2) 18+ only
AGA321 HOT-BABE 1 (2) MUST BE OVER
AGA322 HOT-BABE 1-5 (2) PER VOLUME
AGA393 PC EMULATOR V3- Latest PC emulator
AGA400 HYPER RACE (2) Super racing games
AGA410 CINDY CLAWFORD (3) new
AGA411 ELLE MACPHERSON (3)
AGA412 CLAUDIA SCHIFFER (3)
AGA413 BIG GIRLS II (2)
AGA414 GIRLS GIRLS (2)
AGA418 FEMALE BODY BUILDER (3)
AGA419 EXCELLENT CARD GAMES 3 latest
AGA421 COLOUR WB make your WB more colourful
AGA422 RIDGE RACER Demo on the Amiga,
AGA431 Explain Amiga workbench error code ect.
AGA432 BEACH BABE (5)-Over 18 only
AGA429 POWERDROID-96 New Asteroid
AGA430 ULTIMATUM -The ultimate 3D Tank Battle

GAMES

G356 WONDER LAND amazing graphic recommend
G435 ROULETTE american roulette excellent
G438 TRAILBLAZER 2 C64 conversion
G441 ETYPE 2 - Simply the best asteroid
G455 CASTLE OF DOOM VG graphic adventure.
G567 STARBASE 13 (2D) Brrl file MONKEY ISLAND
G657 AMOS LOADS MONEY best FRUIT-MACHINES
G659 MR MEN OLYMPIC (2D) many event
G673 BOBBY GARDEN + DIGGER (NEW) Brilliant
G680 SPACE-INVASION 2 - Fantastic Galaxian
G686 AMIGA-BOY-Game boy emulator + tehriz
G772 UN-SENSIBLE SOCCER very similar to Sensible soccer games. RECOMMEND
G798 6 EXCELLENT CARD GAMES collection
G839 BOULDER PACK 640 BRAND NEW LEVEL on 6 disk must for all Boulder dash fan
G870 CHESS II & CHECKER the best around
G892 PINGO 2 - Maze type games. Recommend
G893 SUPER OBLITERATION similar to PANG
G896 ULTIMATED QUIZ -pub style quiz machine
G892 BANDIT MANIA - fruit machine demo
G898 ULTIMATE FOUR TENNIS (2disk)
G842 MACDONA-LAND-similar to ZOOL (not A1200)
G943 JOUST III - C64 games with update graphic.
G944 DELUXE GALAGA V2.6-Very Latest Galaxian.
G956 TRAIN-DRIVER SIMULATION-realistic train sim.
G958 KNOCK-OUT - Mini derby destruction.
G960 MORTAL KUMQUAT 3 - Wind but fun best-emul
G961 CODE NAME NANO- Thrust clone (NANO FLY 2)
G962 MICRO MARKET V3-Get rich by buying shares.
G973 SPELL TRIZ -addictive-tehriz but with letter
G975 H.E.R.O.-games convert from the Atari 2600

ARCADe GAMES III

Brand new arcade games pack 3, This pack includes a new collection of the best arcade games, just like pack 2 highly recommend
5 disk set only £4.99

CARDS GAMES PACK II

This collection is very similar style to the above. The disk are packed with some of the most playable & best card games for the Amiga. Included are all the popular card games, MUST FOR ALL CARD GAMES FANS. Run on all Amigas
5 disk set only £4.99

CARDS GAMES PACK III

Brand new cards game pack III, This pack contains 21 all new cards games, include blackjack, poker, Klonike etc. amazing value recommend
5 disk set only £4.99

PUZZLE GAMES PACK II

This 5 disk pack contain 19 puzzles type games all selected for their quality and originality. highly addictive no Amiga should be without. Runs on all Amigas
5 disk set only £4.99

PUZZLE GAMES PACK III

This puzzle pack 3 contains 19 more all new puzzle game like othello, noughts & crosses, quadrix ect. too many to list. run on all Amigas
5 disk set only £4.99

MINI WB GAMES PACK II

This is a very unusual but extremely fun to play. What mini wb games is just like normal games except it's just tiny screen size, example: play pacman on 64 in. & you can play low games at the same time. Amazing. Run on all Amigas ect (WB 1.3)
5 disk set only £4.99

MANGA AKURA (6disk)

6 DISK PACK WITH MANGA AKURA GAMES, DEMO, ANIMATION, SLIDESHOW, ECT MUST FOR ANY MANGA FAN RUN ON ALL AMIGA.
6 DISK SET ONLY 5.99

AMOS PACK

A 10 disk collection full of example of top programe written in amos, also include are massive collection of demo, library, code ect all written in AMOS ideal for any one want to get the most of AMOS. HIGHLY RECOMMEND
10 DISK PACK...ONLY £ 9.99

UTILITIES

U024 D-LOCKS protect your disk & files
U334 EMULATOR COLLECTION II (lot of emulator)
U490 207 utilities-COMPILATION
U620 HOW TO CODE IN C (2disk) + many examples
U622 ACTION REPLAY V1.5-cartridge on disk
U623 ACTION REPLAY V4 (A1200 ONLY) same as above
U650 COPY & CRACK TOOL 2 powerful copy program
U680 NEW SUPER VIRUS KILLER(not WB3)kill 316-999
U714 ENGINEER KIT various test kit for Amiga
U739 TURBO IMPLODER V3.1 powerful disk cruder
U746 3D GARDEN DESIGNER can view from any angle
U740 CROSS DOS 5.1 plus read/write PC->AMIGA disk
U752 EPU STACKER double the storage of your DRIVES
U846 C64 emulator V3 (2DISK) latest
U848 SPECTRUM EMULATOR V2-latest
U849 VIC20 Emulator include ton of games
U887 DISK RERPAIR KIT 4-disk repair, undelete,ect
U1012 TEXT-ENGINE V5 (not WB1.3) very latest wordprocessor with spell checker. highly recommend
U1013 DIARY-2000 use just like the real diary
U1016 ULTRA ACCOUNT - very good account program
U1022 PRO-FOOTBALL 1.(12) football predictor
U1025 MESSY SID 3 - Latest PC->AMIGA disk convert
U1026 HD GAME INSTALLER 4 - Install more games
U1027 SOFT-MEMORY-Double Your Coughler memory.
This does not require HD or MMU.
U1028 MAGIC-USER-INTERFACE V3.1 NEW version
U1029 ORIC 48K EMULATOR (Not 1.3) At last it Work
U1030 MSX II Emulator V2.1. (WB3.0) MSX computer
U1031 900 AMIGA GAMES HINT, & CHEAT V4 (2 disk)
U1033 CANNON printer driver for BJ210,910,4000 & 4050
U1034 WITCHES COOK BOOK- anti-aging cream in form of many receipt on this disk

FREE Mouse Mat

Worth £2.99

Order any 3 pack on this page & claim your free mouse mat worth £2.99 free, please add anextra 41p stamp for the mouse mat postage

INTERNET PACK

These 2 disk are specially design for Any Amiga user who do not have access to a CD rom drive or the INTERNET, But want to obtain mass of software for the minimum cost!! Each pack contained 10 disks, all the software are pack with LHA which when unpack you could end up with 30+ disks full of software, LHA UNPACKERS IS INCLUDED, not for complete beginner.

VARIOUS LATEST UTILITIES 10 DISK PACK...£9.99
VARIOUS LATEST GAMES 10 DISK PACK...£9.99
MIXTURE OF UTILITIES & GAMES DISKS OF ABOVE...£9.99

All disk of above are latest & constantly up date with the latest software

HOW TO ORDER

To order any pack or title on this page just write the pack name or the title name, & send it with your order to (address right)

ALL ORDER SAME DAY DESPATCHES VIA FIRSTCLASS POST
ALL PACK ARE COMPATIBLE WITH ALL AMIGA UNLESS STATE

PRICE & POSTAGE

ALL SINGLE DISK ARE £1.00 PER DISK
ALL PACK (DISKS) PRICE AS STATED
PLEASE ADD 70P PER ORDER FOR P&P

PAYMENTS

WE ACCEPT ALL CHEQUE, PLEASE MADE CHEQUE PAYABLE TO O.N.I.S.
WE ALSO ACCEPT POSTAL ORDER...PLEASE SEND ORDER TO

O.N.I.S

PLEASE SEND ORDER TO

9 WILL STREET
LOZZEL
BIRMINGHAM
B19-1PP

Tel: 0374-678068



A Microvitec Monitor



If you're looking for the ultimate monitor for your Amiga, the Microvitec M1764 is the one. Rated at 91% in our review, its larger than life 17 inch screen can handle all AGA and ECS screen modes and is perfect for use with 24-bit graphics cards. With scan rates ranging from 15kHz to 64kHz it can sense and display any screen mode you can throw at it, giving a pin-sharp image every time.



"The monitor the Amiga has been waiting for"

Mat Bettinson, CU Amiga Magazine

14" and 15" models also available from your Microvitec dealer. All prices exclude VAT.

14" £299

15" £349

17" £499

Your chance to win this monitor!

This highly desirable monitor could be yours. For your chance to get your hands on one for free, just answer the question below and fill in the rest of the details on the form. The winner will be chosen at random from all the correct entries. The closing date for entries is January 20th 1997. The editor's decision is final. This competition is not open to employees of EMAP Images or Microvitec.

Q. What is the range of scan rates available from the M1764?

A.

First Name Surname

Address

..... Postcode

Daytime telephone number

Please tick this box if you do not want to receive any more information on Microvitec.

Gasteiner
TECHNOLOGIES LTD.



EYETECH

Wired World

Steaming on with some more advanced HTML techniques, we get started with the tricky subject of 'tables': how to create them and how to get them looking all neat and tidy.



Price lists, inventories, results and tables are tricky enough to get up and running on your Web site, let alone trying to get them looking good. It's especially hard when you are using HTML as it's difficult to decipher exactly which bit of text should go where. To make things easier and without resorting to the <PRE> statement for pre-formatted text, we are going to need some sort of text formatting and GUI elements to box out the text items to get it working and looking all right. However, this would be impossible to do even if we used lots of in-lined pictures. Few if any browsers could be coaxed into displaying the page as it was intended. Enter the HTML 3 standard of 'tables' to solve this problem. Though this is even more complex than Forms, thankfully the simple elements can be grasped quickly.

Currently, tables are not supported by all the browsers. IBrowse supports tables in both the demo and commercial versions whereas only the commercial version, not the demo, of AWeb 2.1 supports tables. Sadly, the freeware browsers, Voyager and AMosaic, do not support tables. The author of Voyager hints, though, that a forthcoming commercial version may do so in the future.

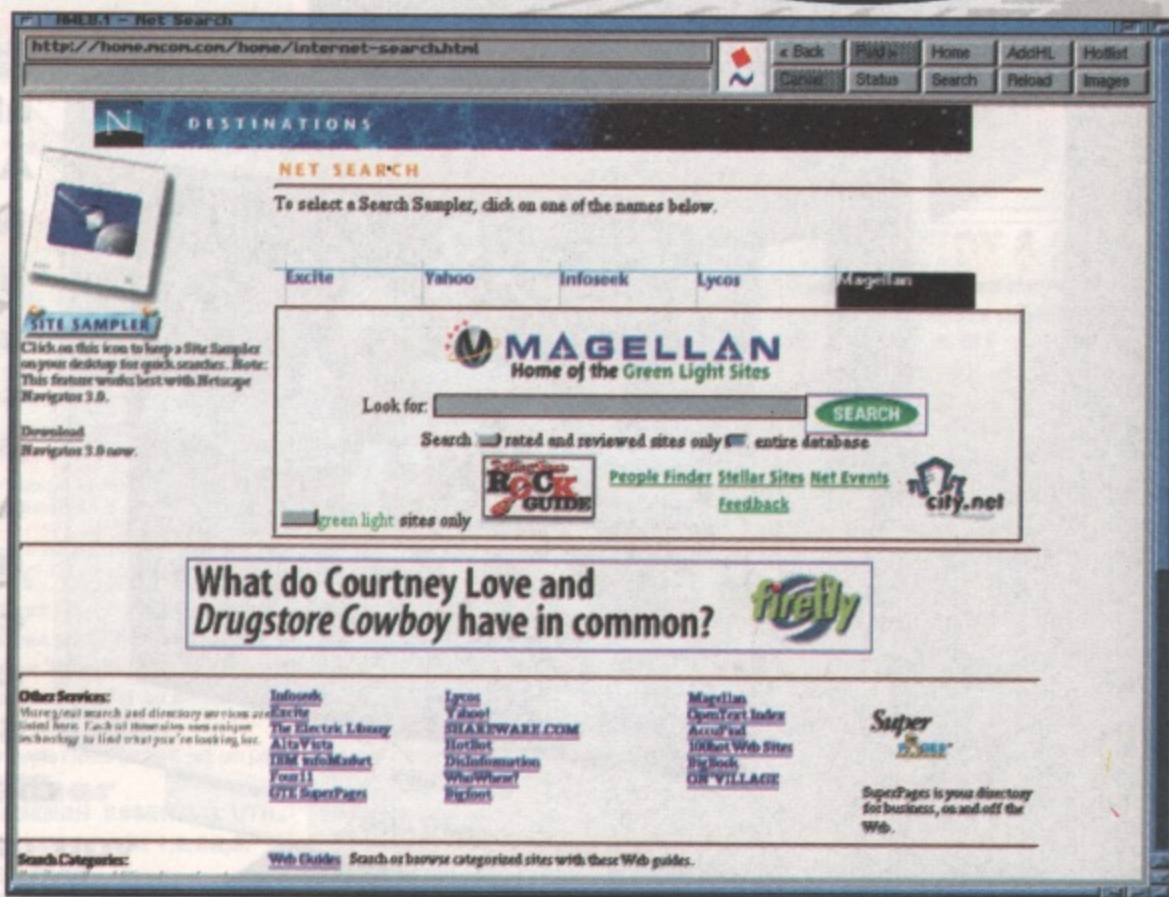
Borderline

There are two main modes for tables. You can either have a GUI border around the 'elements' or not. To start off a table you must use the <TABLE> tag. So, depending on whether you want a GUI border or not you would use either the <TABLE> or <TABLE BORDER> tag. You can also align your table using the ALIGN attribute: ie <TABLE BORDER ALIGN=centre>, though IBrowse seems to ignore this.

To begin, let's try creating a simple table. Say we wanted to implement a table of leading Amiga browsers' features. Here's some

Comparison of Amiga browsers				
	IBrowse	AWeb demo	AWeb 2.1	Voyager
Tables	Yes	No	Yes	No
Frames	Links	No	Links	No
MUI	Yes	No	No	Yes
News	No	No	No	Yes
Prog load	Yes	No	No	No

▲ Here's our example of a basic table. The HTML mumbo jumbo that you see on these pages actually makes this happen.



▲ Here's an example of invisible tables put to use to lay out a page with pictures and text exactly where desired.

```
example HTML code of how we'd do it; (→ means do not enter a return here.)
<TABLE WIDTH="50%" ALIGN=centre BORDER>
  <CAPTION>Comparison of Amiga →
  browsers</CAPTION>
  <TR><TH><TH>IBrowse<TH>AWeb demo
  <TH>AWeb 2.1<TH>Voyager
  <TR>Tables<TH>Yes<TH>No<TH>Yes<TH>No
  <TR>Frames<TH>Links<TH>No<TH>→
  Links<TH>No
  <TR>MUI<TH>Yes<TH>No<TH>No<TH>Yes
  <TR>News<TH>No<TH>No<TH>No<TH>Yes
  <TR>Progload<TH>Yes<TH>No<TH>No →
  <TH>No
</TABLE>
```

Right now it might all look like voodoo but in a moment all will become more clear. The first 'TABLE' tag has a new attribute called 'WIDTH' which specifies how much screen space, in percentage terms, the table will take up. For example, if the table was to be positioned to the left or right of an image it

would then represent the fraction of the remaining screen space.

The ALIGN=centre command places the table in the centre of the screen and BORDER turns on the GUI draw functions. Unfortunately, IBrowse seems to ignore the ALIGN attribute inside the TABLE tag so the table will always be left justified.

Next, there's the optional <CAPTION> tag which simply places text at the top of the table, which will run along the width of the table until you place a </CAPTION> to terminate it.

Columns and rows

Now we come to the meat of the matter: the <TR> tags, which stand for Table Rows. When one is specified, the following statements apply to the next row of the table. Our first Row is a list of browsers.

In order to be able to read the table correctly we need leave the first 'cell' blank. To do this, we've put in an extra two <TH> tags,

the first one of which has no text and so will be empty.

So we move on through all of the cells on that row with the <TH> tag and a name of a browser. There's no limit to the cells we can have BUT remember there will be as many 'Columns' for the entire table as the largest amount of cells you specify on the longest row. We are using five columns here and moving on to the next row with the next <TR> tag, we set up the features of the browsers one by one.

After each feature, we specify a <TH> to move to the next column and an entry for the browsers in each row. For example, the second row is tables and it has IBrowse in the second column so we place Yes after the first <TH>. This formula continues to the end of the table where we finish it off with a </TABLE> terminator.

What may not be instantly apparent is how the table is actually drawn up. This is done quite easily: the browser examines the entire table and finds the number of columns. It then makes each column wide enough to house the longest text string in any row. This width will then be used for every row.

The browser will also most likely choose a font size which will best fit the boxes defined. One important thing to remember is that these kinds of tables can't be displayed until the entire page is downloaded (not the pictures) so to save time don't make your table too large.

Remove the border

Now to try something different. Take that HTML code and remove the BORDER statement from the <TABLE> tag at the start. Reload in your browser and voilà! We have no boxes around the cells at all but the text remains in exactly the same position. This is extremely useful when the need arises to justify text in a particular way. Small in-line images could also be included as bullet points or buttons etc. The text in the cells can also be made into HREF links.

We need limited cells to occupy a single column and row at a time. There's special COLSPAN and ROWSPAN attributes to do this as they can be enclosed inside the <TH> tag to expand a cell's size. Here we partition off 'IBrowse' and 'AWeb' across two cells and include 'Commercial' and 'Demo' underneath. This replaces the first <TR> line in the previous example with these two;

```
<TR><TH>ROWSPAN=2><THCOLSPAN=2>→
IBrowse <THCOLSPAN=2>AWeb<TH>Voyager
<TR><TH>Commercial<TH>Demo<TH>→
Commercial<TH>Shareware<TH>1.0
```

Comparison of Amiga browsers					
	IBrowse		AWeb		Voyager
	Commercial	Demo	Commercial	Shareware	
Tables	Yes	Yes	No	Yes	No
Frames	Links	Links	No	Links	No
MUI	Yes	Yes	No	No	Yes
News	No	No	No	No	Yes
Prog load	Yes	Yes	No	No	No

▲ To create some sub-categories all we have to do is add ROWSPAN and voilà there they are.

Note that we've expanded the columns to six now and so an extra <TH> needs to be added onto the following <TR> tags. The trick here is the <THROWSPAN=2> which has made the top left blank cell two rows deep. It's assumed to be there on the next <TR> line so we don't add a <TH> for it. Also because the IBrowse and AWeb headings have two cells underneath, we must also make them two columns wide and for this we use <TH COLSPAN=2>. We do the same for Voyager.

Assumed cell

The second line now has an assumed cell (which could have contained text on two lines if there was a
) and then has the next headings defined across as normal only this time they fit underneath the above headings which are two columns wide. Once defined, we can change the look of the table by using a special option to the BORDER attribute.

Inside the TABLE tag, BORDER can be made equal to a width of the border. Normally it's a simple line but if we were to do <TABLE BORDER=5> suddenly a nice bevelled edge appears around the table five pixels wide. It certainly draws attention to the table which is great for price lists. The following is an example:

```
<TABLE WIDTH="50%" ALIGN=centre →
BORDER=5>
```

Comparison of Amiga browsers					
	IBrowse		AWeb		Voyager
	Commercial	Demo	Commercial	Shareware	
Tables	Yes	Yes	No	Yes	No
Frames	Links	Links	No	Links	No
MUI	Yes	Yes	No	No	Yes
News	No	No	No	No	Yes
Prog load	Yes	Yes	No	No	No

▲ Here's our finished table; large heading, left most item texts justified centre, total in bold and a nice bevelled edge.

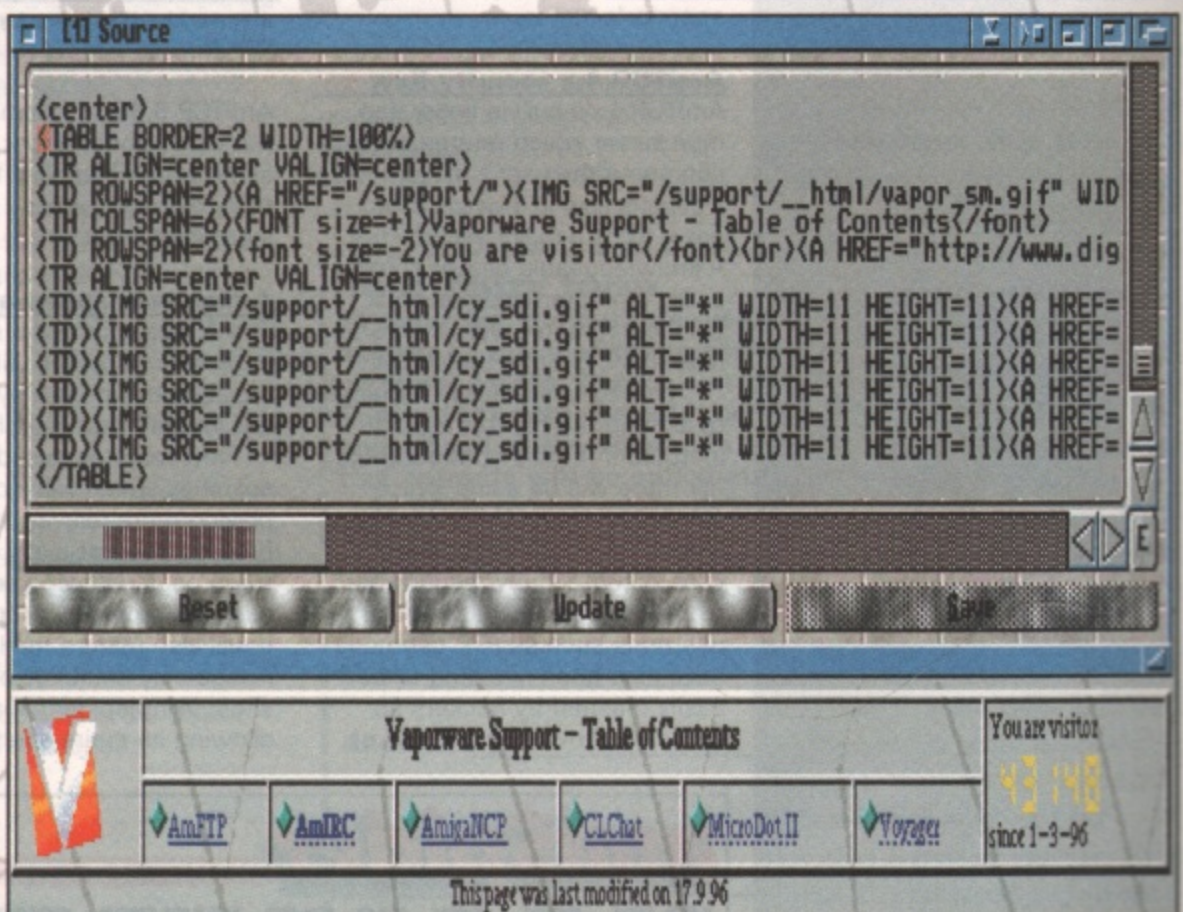
```
<CAPTION><H2>Price list for →
Browsers plus Miami</H2></CAPTION>
<TR><TH><TH>IBrowse<TH> → AWeb demo
<TH>AWeb 2.1<TH>Voyager
<TR ALIGN=right>Standard<TH> →
£29.95<TH>Free<TH>£39.95<TH>Free
<TR ALIGN=right>With MUI<TH> →
+£15.00<TH>Not need<TH>Not →
need<TH>+£15.00
<TR ALIGN=right>With Miami<TH> →
+£25.00<TH>+£25.00<TH>+£25.00 →
<TH>+£25.00
<TR ALIGN=right><B>Total →
</H3></B><TH>£69.95<TH>£25.00 →
<TH>£64.95<TH>£25.00
</TABLE>
```

We've thrown in a few tricks here, firstly our BORDER=5 attribute to TABLE which adds something extra to our table. Then notice the addition of a <H2> heading size inside <CAPTION> where we've made a larger table heading. Next we've right justified all of the far left cells with an ALIGN=right attribute inside the first <TR> tags on each row and finally, the Total is made bold. We can use style tags but not headings or font sizes inside tables. ■

Mat Bettinson

Whatever next?

Next month, we'll look at creating some dynamic and attractive pages by combining tables (with no frames) with our previous techniques to achieve a special lay-out. Drop me an Email to mat@mats.net if there's some web secrets in particular you'd like revealed as it's time to put these techniques into practice. Until next time.



▲ A good example of a small and attractive table, this time used to frame the links to other pages. Note the included pictures and the nice box for the page counter.



Net God speaks

What's going to be in your Christmas stocking this year? I won't put in print what I'd like in mine. But while we all wait in eager anticipation spare a little thought for shareware authors. I'm saying this because I've noticed a disturbing demo-hopping trend amongst shareware users lately. For example, one guy recently commented on the IRC, "I only moved to AWeb because my IBrowse demo timed out." This is not on. Need we remind him that there wouldn't be the excellent development of Internet applications that we have today if this attitude was the common one? We all have some essential shareware lying at the heart of our system so why not scribble a cheque to the author(s) and give them a little something for Christmas? They deserve a reward for the work they've done in the past and hopefully this will encourage them to continue any of their planned new developments for the future. Ultimately what I am saying is to wish them a Merry Christmas as I do to you.

Surf's up!

CU Amiga Magazine steps in to solve a potential security risk, ARCnet is on the IRC and version 2.1 of AWeb is here.

ARCnet moves to IRC

The only Amiga-run IRC network, ARCnet, is now accessible via the IRC.

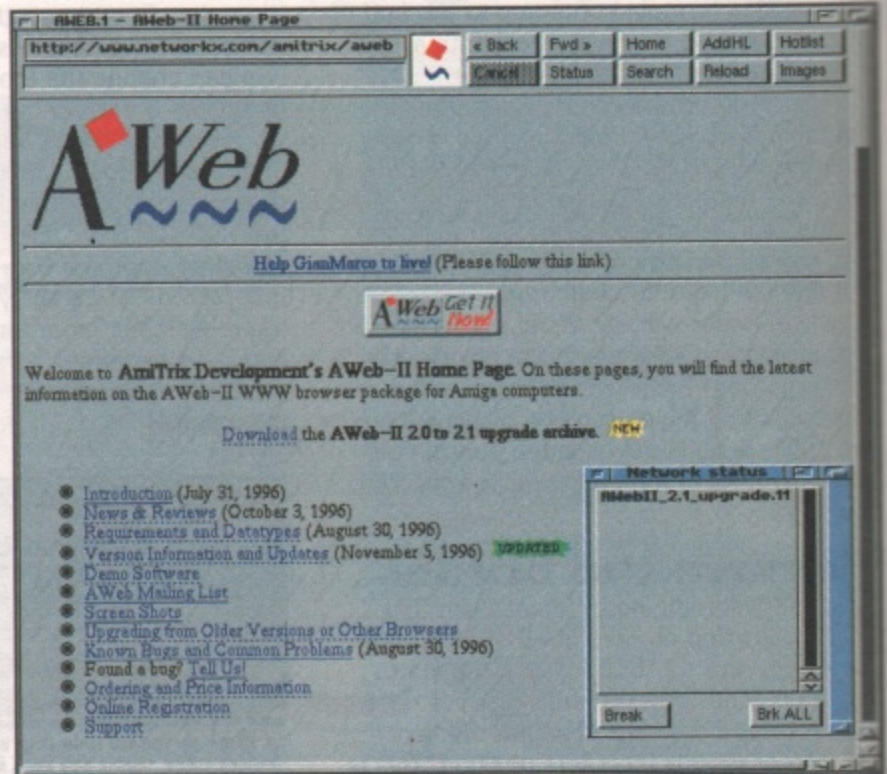
ARC has always run on a proprietary system written by prolific Amiga Internet programmer, Oliver Wagner. However, standard IRC clients found it difficult to use when they tried to connect via a built-in hack. To solve this problem Mr Wagner has ported the Undernet IRC server to run on the Amiga so that ARCnet can connect to an existing network of Undernet servers. As before, the bulk of the Amiga users hang out in channel #Main but this time it may be accessed via irc.men-tasm.com port 6667.

ARCnet is growing increasingly popular now so why not pop this site into your IRC client and drop in for yourself but don't be surprised if everyone has channel operator's status.

AmiTCP 4.x security flaw

AmiTCP 4.x's built-in finger daemon server which returns information about the user's system has a serious flaw in it which could prove to be a major security risk. A knowledgeable hacker could easily run commands on your machine remotely via an unfortunate 'back door' in the server.

Thankfully, it's easily remedied by editing the file Amictcp:db/inetd.conf. In this configuration file there will be a line which starts with 'finger'. Remove this line and resave the text file and your system is now secure. Be warned though, other popular daemons such as FTP daemons have also been revealed to be easily crashed by hackers so run at your own peril. Users of



▲ Version 2.1 of AWeb is here. Anyone who already has version 2.0 will receive this latest update free of charge.

AmiTCP 3.0 and Miami need not worry about finger but the same warning applies to third party daemons adding to their inetd configuration.

Amiga web spider announced

The Amiga's first web site search engine, amiCrawler, will be replaced this month by amiSpider, the Amiga's first search spider.

New features include faster searches which will include displaying more relevant matches first, indexing of every word of every page, allowing searches such as 'browser comparison' etc. It will also feature the largest Amiga-only database of Amiga sites, using spider capabilities allowing an entire site to be

indexed just by providing the home URL. AmiSpider will also determine when a link is no longer valid and automatically remove it from the database. The site can be visited at <http://www.amicrawler.com/spider/>.

AWeb-11 v2.1 Update!

AmiTriX Development has announced the release of version 2.1 of the popular WWW browser 'AWeb' by Yvon Rozijn. The update, which is free to customers that have purchased the v2.0 package, is now available from their web page at <http://www.networkx.com/amitrix/>.

AmiTriX would also like to apologise for the delay in making the update available, but illness and some last minute changes made it un-avoidable.

There will be v2.1 AWeb-11 packages ready for shipping to new customers by the time you read this. AWeb-11 v2.1 costs £39.95 and is available from Blittersoft on 01901 261466. ■

amiSpider AMIGA SEARCH ENGINE
ADD URL COOL NEW FAQ FILES HEADLINES STATS SURVEY

▲ AmiSpider, the Amiga's first search spider dances in to take amiCrawler's place. AmiCrawler was the Amiga's first web site search engine.



The Ultimate Amiga Trainspotter Quiz

So you think you know about the Amiga? Prove it!

Games

1. Which classic Amiga game from Cinemaware features battles between the Saxons and Normans?

2. Name the main programmer responsible for Kick Off, Kick Off 2 and Goal!

3. Which martial arts game featured a secret hot key which caused the combatants pants to fall down?

4. What form of light refreshment is being sold by a bloke in the audience of Speedball 2?

5. Which cute Amiga platform game shares its name with a food consisting of fried potato, onion and cabbage?

History

6. What was unusual about the inside of the original Amiga 1000 casing?

7. In what year was the first Amiga put on sale to the public?

8. Which major software developer supplied the original Amiga BASIC for 1.3 Amigas?

9. Commodore took over the

Welcome to The Ultimate Amiga Trainspotter Quiz! In a bid to find our most Amiga-wise reader, we've compiled this competition quiz and amassed a tempting goodie bag of Amiga rarities and collector's items as a unique prize for the winner. This cornucopia will include: a box of Commodore matches, an Amiga Technologies mug, a framed 'Cover of the Month' from CU Amiga Magazine December 1994, a complete set of CU Amiga CUCD-ROMs, an issue of CU Amiga Magazine signed by the team, some obscure old games, an original 'iris' proof of the latest CU Amiga Magazine cover, lots of CU Amiga Magazine mini-books and some good stuff too that's bound to amaze and amuse your friends. All aboard!

development and manufacturing of the A1000 from which company?

10. Name the man widely regarded as the "Father of the Amiga" due to his development input.

Hardware

11. List all of the custom chips in the A1200 with female names.

12. What is the clock speed of Fat Agnus on an A500?

13. Which B52s song titles are written on the motherboards of the A500 and A1200?

14. How large (in Kilobytes) is the Kickstart of a CD32?

15. In which chip is the RS232 Serial UART housed?

Systems

16. If when listing a file you saw the flags '-p-rw-d' what

would this tell you about that particular file?

17. What type of multitasking does the Amiga use?

18. What is the maximum length of a Fast Filing System filename?

19. The 'Right Amiga' key of certain A500s is marked with a different symbol. What is this symbol?

20. Name the man behind the original Rexx language upon which ARexx is based.

Miscellaneous

21. Name the 3D rendered CD32 game inspired by the film Fantastic Voyage.

22. What do the letters AGA stand for?

23. How many grooves are there along the back edge of an A500?

24. How many colours can be displayed simultaneously on a HAM-8 screen?

25. What does the 'CU' in CU Amiga Magazine stand for?

Your entry form

To enter the competition, use this page (or a photocopy) to answer as many of the questions as you can and fill in your personal details. Entries can only be accepted in this form. The entrant with the most correct answers will be announced as the winner. In the case of a draw, one of the tied entrants will be pulled at random from a hat.

In order to give overseas readers a chance, the closing date for entries is 30th January 1997. The winner will be announced in the April 1997 issue of CU Amiga. Multiple entries will not be accepted. The editor's decision is final.

Name _____

Address _____

Postcode _____

Telephone number _____

Digital Compact Cassette

Digital recording for £249 sounds too good to be true. Could DCC be the ideal mastering format for skint musicians?

You've probably heard about DCC before. It was launched a few years ago in an attempt to replace the old analogue cassette standard, bringing it up to date with clean digital technology. For one reason or another it still hasn't made a dent in the home, car or portable hi-fi markets, but neither has it gone away. Around the same time, Sony tried a similar thing with MiniDisc, a recordable magneto-optical format that looks like a miniaturised cross between a CD and floppy disk. MiniDisc failed on its first attempt too, but now both formats are attempting to make a comeback. While MiniDisc four-track Portastudio-type recorders are now appearing for musicians with small studios and big budgets (prices start at around £900), DCC remains by far the cheapest entrance into digital mastering.

Price is the key element in the favour of DCC as a digital mastering format. While the cost of industry standard DAT (Digital Audio Tape) recorders remains artificially inflated to at least £500 for the cheapest unit, with an asking price of £249 DCC has a niche whether or not it eventually conquers the hi-fi market. This article looks at DCC as a potential digital mastering solution for musicians on the tightest of budgets.

The basics

First of all then, let's take a look at DCC's basic principles and how it operates. It works by recording a digital signal onto magnetic tape. The incoming

sound is sampled as a 44.1kHz 18-bit waveform and then passed through a special kind of data compression in order to fit a relatively large amount of data onto a small amount of tape. This is a 'lossy' compression method which removes parts of the sound that it thinks you won't notice. It's very efficient and so it only requires a fairly simple tape mechanism (excluding the compression components), unlike DAT which uses a mechanism that's very much like a miniature VCR.

DCC was designed to wean people off analogue cassette tape and has many similarities to the old format. Its cassettes are the same size as analogue tapes but have their own unique subtly different design which has a retractable metal cover that protects the tape, rather like that on a floppy disk. DCC decks can also play analogue and DCC cassettes but recordings can only be

made on DCC tapes. DCC tapes can also contain data for track markers and track titles to be displayed during playback. The documentation also says pre-recorded tapes can contain whole lyrics, although we didn't come across any.

Is it an option?

The major factor here is sound quality. Does it match up to DAT and is it good enough for professional mastering? The short answer is yes for both, not that everyone will agree. Technically, the quality of recordings is not going to be as pure as DAT because of the compression method that discards certain parts of the sound.

However, you would need very good ears and an absolutely crystal clear production system to tell the difference between a recording made on the two systems. Looking at it realistically,

DCC is more than capable of doing justice to your musical creations. In most musician's setups there are bound to be other areas of production that introduce far more significant noise or colouration of the final sound (such as a noisy mixer, fuzzy effects, bad EQ and so on).

Compensating for the compression, the sound is recorded at 18-bit resolution, which in effect gives you more headroom when making recordings from analogue sources (compared to recording at the 16-bit CD standard). Due to a bit of a mess up with the operating system design this is particularly important, as setting optimum record levels is much harder than it should be, as we'll discuss shortly. But assuming you've got that covered, DCC makes apparently



■ Above: the portable DCC 134 and the hi-fi style DCC 951 unit.

DCC models: what's on offer

There are currently five main DCC models available from Philips. They all offer a fairly flexible array of options. In addition to those listed here, there's also a car stereo model available. The packages which are shown below in the table are based on prices and deals offered by DCC distributor SRTL (tel: 01243 379 834). A number of free DCC tapes are bundled with each of the models. SRTL also do a few bundles made up of various combinations of two different DCC decks.



pre-recorded tapes this is only worth considering as a complement to a non-portable DCC recorder. The FW 68 is a complete mini hi-fi system which comes complete with speakers, and integral amplifier, tuner, CD player and a dual tape deck in which one is DCC and the other is analogue.

The verdict

DCC may well become the home recording format of the future, but don't bank on it. It's certainly not happening as a format for pre-recorded music. Getting hold of blank tapes could be a problem. You won't find them in many high street shops although most good hi-fi and music shops will be able to order them for you. However, they are available from the hi-fi chain store Richer Sounds, which has outlets all over the UK.

Bearing these shortfalls in mind, it's really the £249 DCC730 or DCC 170 which look the most attractive options.

DAT is the ideal choice for anyone that can afford it, but if you don't mind making a few compromises, DCC is well worth looking into at half the price. It has very little 'pose factor' beyond the realms of your hi-fi system and you might even have to put up with a bit of ridicule from ignorant members of the recording industry. If that bothers you then forget it. However, it's recommended as a stepping stone to DAT. If it's the difference between getting your first record released or giving up and losing momentum due to lack of funds then it's got to be worth considering. Even if you get a DAT soon after with your first royalty or advance cheque, the DCC can still be put to good use in your hi-fi stack. ■

Tony Horgan

Model	Description	Free tapes	Price
DCC730	Hi-fi separate style record and playback unit	Five	£249
DCC951	Identical to DCC730 except for restyled front panel	Ten	£279
DCC170	Portable Walkman-style record and playback unit	Five	£249
DCC134	Portable Walkman-style playback only unit	Three	£150
FW68	Mini hi-fi system with speakers, CD, tuner and additional analogue tape deck	Ten	£399

perfect copies. If you use either of the digital inputs (optical or coaxial) then this is all done automatically.

So it's fine as far as sound quality goes, but what if you're the only person you know who has a DCC machine?

At the moment it wouldn't be much use sending out demos to record companies on DCC for the simple fact that hardly any will have a DCC machine to play them on.

When it comes to getting your music put onto CD or vinyl you'll also have the problem that the cutting house are unlikely to have a DCC machine. In this case you would have to take your own machine, which may or may not be practical depending on which DCC model you have and how flexible the cutting house is. The portable recorder and playback units would obviously be more suitable for this.

Work it

DCC tapes use an A and B side format with an auto-reverse mechanism to switch sides (like a VCR there's only one way in which to insert the tape). Track markers can be inserted as and when you record each piece of music or you can put them in after you've made your recording. So for example, if you were recording a continuous live mix tape from two record decks in which one record fades into the next, you could add markers on the tape once the mix was finished. Notes or track

titles can also be added as and when required.

Off the record

Setting the recording level should be a very simple affair with a standard volume bar display as used on most analogue tape decks and DATs. However, a rather confusing dual numeric display is used instead. When set in record/pause mode with an incoming signal, the first number displayed is the continuous peak level, while the second number is the amount of headroom you have left before the sound will clip due to overloading. Both measurements are given in 'dB'. While this must have sounded very logical to the boffins who designed the system, most people will find it very confusing. The dB scale can be tricky to understand and the manual makes little attempt to demystify it. This will lead many to simply use the 'Over' indicator which appears whenever the incoming signal is too loud.

Most other operations are fairly simple and straight forward, although the system does have a few quirks. Now and again (for whatever reason) the mechanism has a tendency to thrash around with a newly inserted tape, as if it's confused or maybe trying to get a grip on the information on the tape.

One discovery during our tests was that it's quite possible to buy 'bad' tapes that for one reason or another will not work on any DCC recorder. We had a

brand new BASF 90 minute DCC cassette that refused to work on four different decks. While a poor quality blank tape will normally still work on an analogue system, digital systems like things more cut and dried: either it works or it doesn't.

Which DCC?

Philips have made a fair attempt at producing a DCC machine to suit everyone. The DCC 730 is fine for anyone with a hi-fi separates system or a home studio set-up. Technically identical is the DCC 951, which offers a new style front panel (and some extra blank tapes) for £30 more. If you want portability then there's the DCC 170, a robust metal-cased Walkman-type unit that offers the same features as the 730.

The playback-only DCC 134 is another portable option, but with the lack of commercial



▲ The DCC730 at just £249: is it the answer to the penniless musician's prayers?

FORE-MATT Home Computing
 Dept. CU, PO Box 835, Wootton Bassett, Wilts SN4 8RX
 01793 853802

PD / Shareware / CD-ROM
FREE CATALOGUE DISK
 (FREE P&P and FREE updates)

PD / Shareware from only **50p** / disk

CD-ROM

Oh Yes...More Worms!	£8.99
Assassins Games 1	£7.99
Network CD	£5.99
Multimedia Toolkit	£5.99
Multimedia Toolkit 2 (2cd)	£19.95
Grolier Encyclopedia 2	£25.95

10% Discount on first order!
 Many more titles in stock
 Blank disks : DSDD 30p each DSHD 35p each
 Please add 50p P&P per order

Wet Paint Video
Production & Retail

214 Moor Lane Upminster, Essex RM14 4PQ
 Wide range of audio, video and computer media
 and products in stock.

Premium Brand Products At Low Prices
 All with a money back GUARANTEE

Sony Playstation +2 Games £250
 Fuji Video SD180x3 £5.55, SD240x3 £6.99
 TDK Audio D90x6 £5.30
 TDK Alkaline Batteries £1.79
 Fuji HD Discs £3.99 box of 10

For your free price guide call:
 Derek : 01708 225560
 Tim : 01277 226339

ALL PRICES INCLUDE VAT but exclude P&P
 Sorry but we are unable to accept Credit cards at this time

CLASSIC AMIGA
PD Software

Phone for a
FREE catalogue disk
0161 723 1638
 SHOP OPEN
12-9pm DAILY
FULL RANGE OF CD ROMS & CD32
GAMES NOW IN STOCK

11, DEANSGATE
RADCLIFFE
Manchester

MAGIC PD
 We will supply PD/Shareware disks
 for a magical price from as little as

50p each!

We stock:- Fred Fish, Assassins, Scoop, Jam,
 Demos, Fonts, Music, Clip art, Games, Utilities
 and many more. We have over 12000 disks to
 chose from! Send a SAE for free cat disks to:-
MAGIC PD, c/o s.l.e.d.c., Enterprise way,
Middleton Road, Leeds, LS10 3EZ

MAGICAL DISK PRICES	MAGIC PACKS
1-9 - 70p PER DISK	ie:- A 10 DISK PACK COSTS
10-19 - 65p PER DISK	ONLY FIVE POUNDS!
20+ - 60p PER DISK	

P&P 80p ON ANY SIZE ORDER.
 2 FREE DISKS FOR EVERY £5
 YOU SPEND

THERE'S OVER 150 PACKS TO
 CHOOSE FROM!

KEW = II
 SOFTWARE

Est. 1989

THE BEST IN QUALITY PD & SHAREWARE
 SUPPLIED ON BRANDED DISKS ONLY!

The LEADER -
 OTHERS CAN ONLY FOLLOW!

FREE FRIENDLY HELP BY
 POST or PHONE ANYTIME!
 FREE CLUB MEMBERSHIP

PICK YOUR OWN PROGRAMS!
 BY NAME, NUMBER AND SIZE!
 IT'S EASY!

500k makes 1 bootable disk!
 800k makes 1 non bootable disk!

CATALOGUE WITH FULL DESCRIPTIONS & INDEX ONLY £1
 Phone for the LATEST PROGRAMS! 1-3 disks £1.50,
 4 or more ONLY £1.25

P.O BOX 672
 South Croydon
 Surrey CR2 9YS
 Tel: 0181 657 1617

FREE P&P

AMIGAHOLICS PD
 THE 100% AMIGA PD LIBRARY - WE DON'T DO PCs ETC

THIS MONTHS-SPECIAL OFFERS ON FAX MODEMS
GET SURFING WITH THESE LOW, LOW PRICES

14400 EXTERNAL FAX MODEM only £74.95
 28800 EXTERNAL FAX MODEM only £119.95
 33600 EXTERNAL FAX MODEM only £139.95

These modems are the Highly regarded "Mr. Modems" and are
 Fully BART and CE Approved. Cables, Software, Power Supply
 and Delivery included in this Very Special Price.

Short of Storage Space? Not any more, with the OMEGA ZIP
 DRIVE. With interchangeable 100 MEG disks your Storage and
 Back-Up problems are over. Storing large Graphic or Music
 files and making removable Back-Ups quickly & easily, the ZIP
 DRIVE is the complete answer to your future storage problems!
ONLY £149.95 including one 100 Meg Disk and Delivery
 (SCSI INTERFACE REQD)

Send Cheques (with card No. on back) or Postal Orders to:
 AMIGAHOLICS PD, Dept CU, 236, Chester Road North,
 Kidderminster, WORCS, DY10 1TE

DON'T FORGET >>>> FREE P&P <<<<< ON ALL ORDERS
 Send an SAE or 2 First Class stamps for a PD Catalogue Disk
 which includes music and games as well as all the listings

DELTRAX PD(CU)
 36 BODELWYDDAN AVE,
 OLD COLWYN, COLWYN BAY,
 CONWY LL29 9NP
 TEL/FAX 01492 515981

AMIGA & IBM PC

NEW CATALOGUE
 AVAILABLE NOW!

PUBLIC DOMAIN/SHAREWARE

ONLY **95p** PER DISK

PLUS 60p P&P PER ORDER
 STATE WHICH **FREE** PRINTED
 CATALOGUE YOU REQUIRE

NO MERCY SOFTWARE
 Titles from 20p up to 45p
 One **FREE** disk with every 10

Phone Now for **FREE**
 catalogue disk - 01845 501326
 Phone before 5pm - Get it tomorrow

Full Amine! Access
 Gigantic Games Collection
 Vast collection of Adult disks
 Huge quantities of Utilities
 Plus all the usual stuff.....

FREE

Fast turn around. All guaranteed
 Help line - 01609 771596

No Mercy Software, 3 Hillside,
 Dept CU, GT Thirkleby, Thirsk,
 North Yorks, YO7 2AX, 01845 501326/526412

ADVANCE COMPUTER TECHNOLOGIES (UK) LTD
 Suppliers of surplus computer equipment

AMIGA PSU'S
ONLY £20!
 Surplus stock with
 30 day warranty.

Send Cheque/PO to :
 42 Nether Hall Road, Town Centre,
 Doncaster, DN1 2PZ
 Tel : 01302 811140 Fax : 811141
ALSO AVAILABLE RAM, HDD etc....

MICRONINE SOFTWARE

ADULT CD-ROMS

World's Best Butts	£15.00
Bra Busters	£20.00
Girls, Girls, Girls	£10.00

ADULT FLOPPY'S

Asian Collection	£4.00
Blondes	£4.00

Too many to list send for our **FREE** catalogue

SEND FOR OUR **FREE** CD & FLOPPY CATALOGUE
 YOU MUST BE 18 or OVER TO ORDER

Secret Subjects CD £10.00
 This CD exposes the computer underground
 Hacking, Phreaking, money making secrets etc...

11 Chapel Street, Rhydyfelin, Pontypridd
 Mid Glamorgan CF37 5RQ

PD POWER
 WE STOCK OVER 10,000 DISKS

50p per disk

NO MINIMUM ORDER
 1 **FREE** WITH EVERY 10
 For **FREE** CATALOGUE DISK +
FREE GAME + FREE COPIER
AND MORE

Please SAE to:
PD POWER (DEPT CU)
15 LOVETOT AVENUE
ASTON SHEFFIELD S31 OBQ
0374 150972

CAPRI CD DISTRIBUTION

ALL AVAILABLE
 TITLES IN STOCK **AMIGACD**

225+ CD TITLES / 150+ CD32 TITLES / 80+ CDTV TITLES

NEW RELEASES

MOVIE MAKER VOL. 1 £29.99	ZOOM RELEASE 2 £18.99
AGA EXPERIENCE 2 £19.99	HOTTEST 6 £19.99
EMULATORS UNLIMITED £19.99	AMINET 12 £14.99
AMIGA DEVELOPERS CD £19.99	MORE WORMS VOL. 1 £14.99
AMIGA UTILITIES 2 £19.99	SCI-FI SENSATIONS 2 £19.99
EPIC COLLECTION 2 £19.99	WORLD ATLAS £29.99
CS4 SENSATIONS 2 £19.99	SOUNDS TERRIFIC 2 £19.99
WORKBENCH ENHANCER £9.99	3D IMAGES £9.99
AMINET SET 3 £34.99	NFA UTILITIES EXPERIENCE £14.99
AMINET 13 £14.99	EPIC ENCYCLOPEDIA £29.99

BACK IN STOCK "HUTCHINSON'S ENCYCLOPEDIA £9.99"
 OFFER 1 :- "DARKSEED £14.99"
 OFFER 2 :- "SIMCITY £9.99"

THIS IS JUST A SMALL SELECTION OF THE TITLES & SPECIAL
 OFFERS WE HAVE. PLEASE WRITE IN OR RING FOR THE LATEST LIST.
 (PLEASE SPECIFY WHICH MACHINE &/OR CD DRIVE YOU HAVE)

CAPRI CD DISTRIBUTION
 DEPT CU1, CAPRI HOUSE, 9 DEAN ST, MARLOW, BUCKS, SL7 3AA
 (VISITORS WELCOME)

TEL/FAX 01628-891022
 TRADE ENQUIRIES WELCOME

MasterCard VISA

STARLIGHT SOFTWARE

NEW!	DEMOS	PRICES
Reality Demo Disk	Oxygene Vision (2)	93%
WFO Enemy Unclothed	VD/Fairlight Factory (2)	95%
Knights V2.42	Rabies (3)	93%
Shapeshifter V32A	The Dogs Cogs (3)	94%
Breathless AGA	Revolution (AGA)	
Champ Man Ed. (020+)	Severed (AGA) (030+4Meg)	
Master Blaster V.2.21	Tint (4) (96 winner)	
Edset (Settlers) (WB2+)	Parakrishna	
SWOSS Ed.		
Champ Man. Ed.		

GAMES	PRICES
Deluxe Galaga V.6 AGA	75p Per Disk
Midget Masacre	1 Free disk with every 10 ordered
Teeny Weenys	P&P 75p per order
Pro Football (2)	ATA LOGUE
Tubes V1.6	Free on first order or phone/SAE
Battle Dual V1.03	(?) No. of disks
Blob Combat AGA	
Flying Tigers	
Penguins	
Poweroids V1.1 (020 REQ.)	

MISCELLANEOUS
Web Browsers
Term V4.2
Metalooop (E-mail)
El's Guide to the Internet
Internet Utills II
Project UFO (6)
AmiTCP (2)
F1 GP Ed V3.16
F1 GP Accessories

Send Cheques/PO's to:
Starlight Software (CU)
725 Fountain Street,
Leeds LS27 0AL
Tel: 0113 252 7654
<http://www.raduga.demon.co.uk>

WEBRO PUBLIC DOMAIN

THE BEST AGA, Animations, Slideshows, Games, Spectrum Classix, Educational, Business, Music Modules & more ranging from A500 to A4000 users Plus classic titles and the latest releases.

FREE GAMES ON 2 CATALOGUE DISKS
* 10 = 1 FREE * 25 = 5 FREE * All New Disks
* Prices From 60p * Huge Database

PACKS OF 50 BRAND NEW DOUBLE DENSITY BLANK DISKS ONLY £15 plus P&P

PLUS ADULT TITLES (18 + only)

For our Excellent Catalogue Disks Please send 3 x 1st Class stamps (State Model) to:
WEBRO PUBLIC DOMAIN
DEPT 8,000 (CU)
15 CROWHURST
PETERBOROUGH
CAMBS PE4 6JY

SELECT SOFTWARE

FREE WITH ALL ORDERS * FREE * ONLY SELECT SOFTWARE GIVE YOU ALL THIS

- * 3 FREE disks per £10 paid
- * FREE disk boxes choose upto 100 capacity
- * FREE spare labels * FREE catdisks
- * FREE 1st class P&P next day despatch

All PD seen in this mag (incl. PD Soft & Amine!) BUT:
* Amended to work easily for beginners
* TDK branded disks at no extra charge
* Only best titles & latest versions
* Guaranteed - No quibble replacements

<ul style="list-style-type: none"> A1200/4000 UTILS W32 Beginner 1.4.33 Image Disk 3 AGA 78% HD Click 3 HD Click 3 SwacStarter AGA Symphony Pro 2.1 Nucleus Multimedia Shapeshifter 3.5 RD's Datsyptes Ionian 2.97 AGA 90% Logic on Floppy 3 Magic WB 2 AGA 90% Navigator 3D 2 AGA (2) EmuCP Emul/Games Eseypnt 1.25 (2) A1200/4000 DEMOS Asa Time & Emotion Artcore 82% Btyme Sensuality (2) Friday at Eight A1200/4000 GAMES Poweroids 1.3 D.Picment 1.6 AGA 88% D.Galaga 2.6C AGA 100% Megalab v3 AGA Breathless Demo AGA Action Replay Pro3 Diamond Caves Latest Cybertech AGA (2) Klonlike AGA 4 Floppy (3) Klonlike AGA 4 (4) (hd) Kelloggs Land AGA Psychoword Rocket 2 AGA Samurai Showdown AGA W12+ UTILS Lottery Mania Pro 4 Visual E Developer Pro Nucleus Blankers 2.1 Easy Web Page Maker (2) GenMidPlay 1.2 (2) Image Studio (hd) 90% Midnight Blaker 2.5 90% Menus & More 3.2 93% Scout Monitor 2.6 Pirates Control Utills AT Installer Kit 43.3 AmiCDFs 2.6 90% Ratzoide Kit 2.6 Mode Promoter 4.12 XP Kernal 2 XFD Master Picorg 3.11 & Dessaly 2 Fisco 1.2 Database (2) 95% Virus Workshop 6.1 Latest Viruscheckers 	<ul style="list-style-type: none"> Virus Xlnbr2.4 92% Blocis Editor 1.02 90% Flaquest Dupes Clone Recluster Creator Kit RD's Utills 46 RD's Utills 47 Powerdisk/Pro HD doubler XFK Utills and Tools Magimenu Progs & More Excutive 1.3 (hd) 95% MCP Latest (2) 93% Dopus Magic Companion Dopus 4 Utills 2 Dopus 5 Utills Dopus 5 Extras Toolstack 2.1a TurboCat 2.0 Logic Circuit Sim 1.1 URSAccounts 2.1 90% Accountmaster 3.92% BlzBankAccounts 2.25 DOCP3 Game Creator GRAC Adv. Creator Demo Experiment GRAC Game RD's Monitor Fix Disk Legal Games Install(3) (3mb) MUI UTILS (WB2+) <ul style="list-style-type: none"> MUI 3.6 and DevKit (2) ASL Requester Kit Everyday Organizer 2.1 RC Filemanager 1.29 64% Daily Backup 2.42 Nambar 1.13 64% Startmenu 2 Screenstab 2.1 Start Menu 2 Winzize Progs & More RD's MUI Utills 33 RD's MUI Utills 34 MUI Video Tiler 2.1 Voyager Latest MUI Reax 2.1b 94% WB2+ GAMES MegaTypoon 91% Battered Status 90% Psycheval 88% Deluxe Fraction 1.6 88% Pro 1.0uz 95% Rebrouder Fantasy Forces 1.0a Worms Demo D.CardGames 2 (4) (2.1.4) Blush 2.54 (3) (hd) 90% Balunacy Demo 90% 	<ul style="list-style-type: none"> Slicker 92% Torus 87% Smart Cards 2.1 95% Deluxe Galaga 2.6 100% Psychoword Scorched Tanks 1.85 UTILS ETC - ANY IBM Cache CDFS Pro-Football Back Up 5 Onform 2 TextEngine 5 Word Pro LZX Latest Plus Extras Fastview 2 DMS GUIs Stonecracker 4.10.3 Pro MFBbackup 2.4 DCopy 3 Pro Remdats 2.22 Supervise 4.2 Snoopdos 3 DMC Gold Demo Wordworth Fonts (5) Dark Fiction Beyond Sanita 4 Mag (2) Panasonic Print Driver Star Printer Drivers Pro Printer Drivers Magic Workbench 1.3 ART MUSIC ANY IBM Junior Picasso Disney Colour Clipart (2) HAM Slides Planes Spectrapaint 3.1 Amiga Glitter RD's Sound Samples (3) RD's Instruments (2) Delectrator 2.14 (WB2+) Star Trek: River Demo Oxarmad Latest Disk (WB2+) GAMES - ANY IBM T-Factor Shoot em up Super Foul Egg (Vulc) Step Five 90% M&S Tetris Compilation M&S Puzzlers Comp M&S Comical Comp M&S Arcade Classics (2) Magic Blaster Comp Bubble & Squash Demo Death Mask 3D Demo Pinball Dreams 2 Demo Pinball Fantasies Demo Argus Game Bread 98 SimCity 1.3 	<ul style="list-style-type: none"> Wreck Game Total War 1.9 Super Ham & Toons Bros Real Chinese Mahjong R3 Game Knights v2.42 Super Skiddy 3 85% Waynes World Pong Wheel Chair Gladiators Wally World (2) Coarse Fishing (2) 100% Antwars 1.9 Cosmic Racer Colour Mania CyberSphere Chaqueque (2) M.A.S.H. Green 5 Platform Puzzle Kung Fu Charles Shoot Em Up Twice 2 Solo Assault EDUCATIONAL - ANY IBM Star Trek The Game Star Trek Next Gen Quiz (2) AmigaWorld 3.1 (3) T Concepts Enclosures 3 Storyland 2 Game Barney Goes Camping (2) Barney Meets Santa (2) Medical Clipart (2) Firework Alphabet Red Dwarf Guide 1996 How The Earth Began Star Trek Voyager Guide Star Trek The Guide Oxarmad 5 Tutor (4) Kids Disk 7 ICONS & BACKGROUNDS NewsIcons 3 Kit (2) 90% AssIcons 1, 2 and 3 AssIcons 4, 5 and 6 AssIcons 7 and 8 NewIcons Backdrops NewIcons Backbench NewIcons Tools Magic WB extras 10 Magic WB extras 11 Magic WB extras 12 Magic WB Backgrounds (2) Rabbits MVB Icons 14 Star Trek Magic WB extras Iconographics v3 (3) Iconographics v3 (hd) (3) Iconographics More Icons Football Icons 96%
---	---	--	---

ALL DISKS £1 ASK ABOUT 10 DISK PACKS £5
Dept CU3 (S), 64 Stapleford Road, Luton. LU2 8AY ORDER LINE: 01582 36157
No Credit Card needed. Cheques payable to M.Wood

INSANITY PD

Quality Public Domain - Next Day Service
AMIGA & PC CD'S NOW IN STOCK
We now stock a wide range of the best Amiga, PC and CD - 32 CD's on the market. We can match all prices set by other companies, and you will find us up to 25% cheaper than the shops.

We also stock 1,000's of Public Domain titles including the entire Assassins and Amos collections plus a comprehensive range of the best Demos, Games, Glamour and Utility disks on the market.

For a disk featuring our entire listings and a free game, send 50p and an SAE to:

Insanity PD (Dept. CU1), 542 Grange Road,
Gillingham, Kent ME7 2UH
Tel: (01634) 852135 (after 6pm)
Please make Cheques payable to Mr A P Varley

FREEBOOTER PRODUCTIONS

PD LIBRARY
APPLY NOW FOR YOUR FREE CATALOGUE DISK

66 SYLVAN WAY
SEA MILLS
BRISTOL
B59 2LE
PRICES START FROM ONLY 25p!

Convert your Amstrad COLOUR MONITOR £10

Our custom made leads will convert your old Amstrad Monitor to work with your Amiga giving a crisp R.G.B. colour picture & optional quality amplified stereo sound.

	DIY	MADE
464/6128 (CTM644/0) Picture Only	£6	£10
464/6128 (CTM644/0) Inc Stereo Speakers	£31	£40
464/6128 PLUS (CM14) Inc Sound	£9	£15
464/6128 Green (GT-65) Picture Only	£6	£10

Dept CU, Hagars Electronics,
127 High Street, Sheerness, Kent ME12 1UD

Tel/Fax 01795 663336

Money back approval P&P inc.

CQ/PO DELIVERY 2 DAYS



PD DISKS GUARANTEED :

Next day despatch
Only quality, error free, environment friendly recycled disks, or TDK disks (add 15p) No HighD disks!
1 to 9 = 45p 10 to 29 = 35p P&P = 50p
Order 50+ and get a voucher for 10 FREE

7 FREE DISKS voucher with 3 disk catalogue (free with any order, or send 3 x 1st class stamps)

10 DISK PACKS - £2.40
Please state your workbench.

Big Name Games 1 or 2 * PD Mix 1, 2 or 3
AGA Demos & Games * Arcade Games AGA
Platform Games 1 or 2 * Useful Utilities
Mixed Fonts * Klondike Cardsets
Assassins Games Packs
..Plus another 150 Packs or choose your own theme for £2.90

Dept CU3 (F), 64 Stapleford Road, Luton. LU2 8AY
ORDER LINE : 01582 36157 No Credit Card Needed.

CHEQUES PAYABLE TO M.WOOD

Mr. Memory

SIMMs at unbeatable prices !

eg 72 Pin	8 Mb	39.00
72 Pin	16 Mb	84.00

Full range of SIMMs & DIMMs also available

100% pre-tested.... 5 year guaranteed... technical support

TEL 01483 727 333 • FAX 01483 747 722



PERIPHERALS	PRICE
100 CAPACITY LOCKABLE DISK BOXES	£4.49
10 CAPACITY BOXES (PERSPEX / WHITE)	£1.20
INK JET REFILLS (COMPATIBLE WITH 300+ PRINTERS)	£11.50
MOUSE MATS (RED/BLACK & GREEN)	£1.40
A1200 & A800 DUST COVERS	£3.49
DISK DRIVE CLEANER	£18.99
CRUISER MULTI COLOUR JOYSTICK	£12.99
COMP. PRO EXTRA CLEAR JOYSTICK	£12.99
COMP. PRO EXTRA MINI CLEAR JOYSTICK	£18.99
COMP. PRO SUPER CO32 CONTROL PAD (A1200 O.K.)	£18.99
960 DPI 3 BUTTON MOUSE (BLACK/BEIGE)	£14.99/£12.99
100%500 COLOUR WRAP AROUND DISK LABELS	£3.99/£7.99
1000 TRACTOR FEED LABELS (2 ACROSS)	£3.40

SPECIAL OFFER
33.6K/V34 DYNAMODE MODEM ONLY
£149.99
(Amiga Computing 92%)

Many more products available please phone

CHEQUES & POSTAL ORDERS PAYABLE TO:
ONLINE PD, DEPT CU-X, 1 THE CLOISTERS, HALSALL LANE, FORMBY, LIVERPOOL, L37 3PX

ONLINE PD

Tel: 01704 834335 / 834583 BBS: 01704 834583

SPECIAL SOFTWARE DETAILS	POSTAGE & PACKING
FULL OUR INTERNET PACKAGE (HD REQ.) - 24 DISKS.....£16.50	UK PD Orders .....75p Total
FULL OUR INTERNET & COMMS PACKAGE (HD REQ.) - 31 DISKS.....£21.75	General Peripherals .....£1.25 Each
COMMS PACKAGE - 7 DISKS.....£5.25 / KIDS DISKS (EDUCATIONAL) #1-7 DISKS.....£3.25	500 Labels .....£1.50 / 1000 Labels.....£3.50
MAGICAL USER INTERFACE PROGS. #1 & #2 - 12 DISKS PER PACK.....£8.25 EACH	Modems / Hard Drives Etc.....£7.50
ADOBE FONTS #1, #2, #3, #4 & #5 - 15 DISKS PER PACK.....£10.50 EACH	
COLOUR IFF FONTS #1, #2 & #3 - 15 DISKS PER PACK.....£10.50 EACH	
MONO IFF FONTS #1, #2 & #3 - 12 DISKS PER PACK.....£9.00 EACH	
IMAGINE TEXTURES / OBJECTS - #1, #2 & #3 - 9 DISKS PER PACK.....£6.75 EACH	
SPECTRUM GAMES #1, #2, #3, #4, #5, #6, #7 & #8 - 16 DISKS PER PACK.....£11.25 EACH	
SPECTRUM GAMES #9 - 11 DISK PACK.....£7.50 OR ALL 139 DISKS FOR ONLY.....£35	
COMMODORE 64 GAMES #1, #2 & #3 - 12 DISKS PER PACK.....£8.25	
COMMODORE 64 GAMES #4 - 11 DISK PACK.....£7.50 OR ALL 47 FOR ONLY.....£35	
CG (COMPGRAPH) CLIP ART #1 - 9 DISKS.....£8.75	
CG FONTS #1, #2, #3, #4 & #5 - 15 DISKS PER PACK.....£10.50 EACH	
CG FONTS #6 - 12 DISKS.....£8.25 / SAMPLES VARIOUS 300+ - 11 DISKS.....£7.50	
DESKTOP VIDEO #1 & #2 - 12 DISKS PER PACK.....£8.25 / VIDEO GOLD - 10 DISKS.....£8.75	
FREE P&P ON ALL ABOVE PACKS	

Phone for your FREE 3 disk catalogue OR send 39p SAE OR 75p (ALL ORDERS SENT OUT BY 1ST CLASS RETURN POST)

WE STOCK 11,500 + PD DISKS. SO IF THERE IS A DISK YOU ARE LOOKING FOR & CAN'T FIND IT. WE MAY HAVE IT! PHONE NOW & FIND OUT.

COLLECTIONS IN STOCK:
FRED FISH 1 TO 1000,
ASSASSINS GAMES 1 TO 261,
LSD UTILS 1 TO 149 + MORE

HARDWARE

Dynamode Modems (Incl. 2Yr Warranty & FREE £35 starter pack)

Modems in Beige colour to suit Amiga	Modem Only	Modem & GP Fax
14.4K/V32Bis.....(CU Amiga Mag 85%)	£79.99	£119.99
28.8K/V34.....(Amiga Shopper 95%)	£129.99	£169.99
33.6K/V34.....(Amiga Computing 92%)	£149.99	£189.99

All Modem packs come with Group 3 14.4k fax, BT & CE Approval, 112/96 page manual, serial lead, phone lead, installation guide, UK PSU, FREE PACK: 31 disk set of software for use with the INTERNET, BBS'S, FAX, COMMS/INTERNET GUIDES for 1st time users.

Our Modems are highly rated in ALL the Amiga Magazines

GP Fax (The Ultimate Fax Software Solution)	£49.99
A1200 Memory Boards (Incl. clock & FPU socket)	
0MB-£49.99 / 4MB-£84.99 / 8MB-£119.99 / 33MHz FPU-£34.99	
A1200 Magnum 68030/68040 & 68060 Accelerator/Memory Boards	£99.99
(Incl. clock & FPU socket OR built in FPU) Prices Starting From	
A500 / A600 Memory Boards A500 to 1MB	£19.99
A500+ to 2MB	£24.99 / A600 to 2MB
A1200 1Gig Hard Drive	£169.99
Other Hard Drive sizes available	EPCA



DPT CUI, F1 Licenceware,
31 Wellington Rd, Exeter, Devon EX2 9DU
Tel: 01392-493580,
E-mail: steve@f1lw.demon.co.uk
Internet: http://www.f1lw.demon.co.uk

The F1 CD-Rom Vol 1
Contains our first 100 titles
ONLY £14.99 + £1 P+P

The Amos Pro Compiler
on license from Europress
ONLY £14.99 + 75p P+P

WANT AMINET FILES?
Choose 12 disks of archives for just
£10 See our FREE Aminet cat for

VISIT THE F1 WWW SITE AND DOWNLOAD SOME FREE FULL TITLES, LIMITED PERIOD
http://www.f1lw.demon.co.uk

LATEST TITLES FROM F1 LICENCEWARE

F1-148 Above Top Secret (quiz game)	£4.99	F1-149 Distant Drums (war strat)	£3.99
F1-146 Classic Pucman (good clone)	£3.99	F1-147 Ult Quiz data disk 3	£4.99
F1-144 Edword 4.1 (registered Text Ed)	£3.99	F1-145 Keith's Quest (adventure)	£6.99
F1-142 The Experiment (graphic adv)	£5.99	F1-143 Boris xtra levels (600 levels)	£3.99
F1-140 Q: Whiz (quiz creator & player)	£4.99	F1-141 Outfall (VCool game)	£3.99
F1-138 J-Windows (Amos Intuition ext)	£4.99	F1-139 Arcade Darts	£3.99
F1-137 Beginners guide to WB 3 Vol 5	£3.99	F1-136 Guide To Blitz (reference)	£4.99
F1-135 Pitch 'N' Putt (golf game, 5 disks)	£7.99	F1-134 AmosZinc #11 (2 disk issue)	£4.99
F1-133 Boris Ball (Megaball beater, great)	£3.99	F1-132 Guitar Fret Master	£3.99

Please add 75p P&P to order. Includes free Cat Disk

OFFICIAL EDWORD PRO DISTRIBUTOR

We are proud to announce that F1 are now official and sole distributor for the Amiga's premier Text Editor, Edword Pro. Currently on V5.6 (which includes features such as text formatting and justification) Edword costs just £15.00 + 75p P+P.

AMIGA HELP-LINE

Not many people know that F1 has been helping many Amiga beginners with their problems on a voluntary donation basis, see our cat.

F1 Gold Titles

(All come with A5 printed manual)
GRAC V2.0 £6.99 D.M.C Gold V3.0 £6.99
Magic Paint Box £6.99 Grafix £6.99

REGISTERED SHAREWARE

DOOPSI GAME SYSTEM, £18
TRITUS, £12 R3, £12
TRAINDRIVER II, £15

NEW We are now official distributors of the excellent F1-GP editor, reg version costs £7.50

For our free Licenceware/Shareware and Aminet cat disks send us 2x1st class stamps for quick reply

ALL MAJOR CREDIT CARDS ACCEPTED

Order by Post/Phone or E-mail
(PGP accepted, Pub key on our Internet site and cat disk)
Please make all cheques payable to 'F1 Licenceware'



3.5" DISKS

	Premium DS/HD	Recycled DS/HD	Premium DS/DD	Recycled DS/DD
50	15.86	13.51	12.49	9.99
100	29.38	24.68	22.49	18.99
250	64.63	52.88	54.99	45.99
500	117.50	88.13	107.49	87.99

All disks carry our replacement or money back guarantee. Labels are included when ordering quantities of 50, 100 and 250 disks, but are extra on quantities of 500. 500 Labels 3.53

DISK STORAGE

100 Capacity Box 2.99
200 Capacity Drawer 7.99
Only when purchased with disks

ACCESSORIES

A500, A600, A1200 Dust Cover 3.50
Monitor Dust Cover 3.99
Quickshot Python Joystick 8.95
Quickshot Amiga Mouse 9.95
Post Free

All products are subject to availability. All prices include VAT. Please add 3.95 for delivery or 5.00 for overnight. E&OE

TRADERS! PHONE FOR OUR TRADE PRICE LIST.

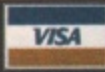


**SNAP
COMPUTER
SUPPLIES LTD**

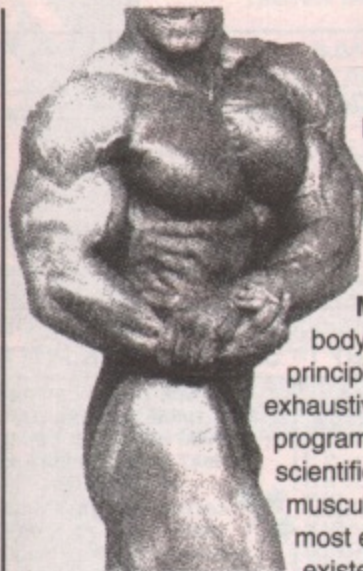
Unit 12,
The Sidings,
Hound Rd,
Netley Abbey,
Southampton
SO31 5QA



Tel: 01703 457111



BUILD MUSCLES FAST!



NEW! Fastest way to build muscles and strength without weights - EVER! Just 35 minutes daily in the privacy of your home will develop an amazing physique.

MUSCLE DYNAMICS is a new body building system based on principles developed after years of exhaustive research. It is a total exercise programme involving the very latest scientific breakthroughs in the field of muscular development. It is the fastest, most effective way to build muscles in existence.

Noticeable results in 28 days guaranteed.

Send for FREE Information Pack.

MUSCLE DYNAMICS, P.O. BOX 40, GATESHEAD, NE8 1PD
Tel: 0191-487 4087

MUSCLE DYNAMICS, P.O. BOX 40, GATESHEAD, NE8 1PD
Yes! I want to build muscles fast. Please rush me a FREE information pack!

NameBLOCK

AddressCAPITALS



.....PLEASE

.....Postcode
(A stamp for reply appreciated)



ASA
**KEEPING
TABS
ON ADS**

Amiga Mice

Replacement Mice	£6.95
MegaMouse 400	£9.95
MegaMouse Plus (3 Button)	£12.95
Optical Mouse	£29.95
Crystal TrackBall	£34.95
Pen Mouse	£12.95
(ideal for CAD)	
Auto Mouse/	
Joystick Switch	£12.95



Ram Boards

A500 512K Ram Board w/o clock	£15.00
A500+ 1Mb Ram Board w/o clock	£20.00
A600 1Mb Ram Board w/o clock	£20.00
A600 1Mb Ram Board with clock	£30.00
A1200 1Mb Ram Board with clock	£35.00
(limited stock)	
A1200 4Mb Ram Board with clock	£65.00
A1200 8Mb Ram Board with clock	£90.00
FPU 33MHz	£33.00

Controllers

AlfaPower Hard Drive controller A500	£99
AT-Bus Hard Drive controller A2000	£69
Oktagon 2008 SCSI controller	£99
Multiface III	£79
PCMCIA Controller for CD Rom for A1200	£69

Spider

NEW MULTI I/O CARD FOR AMIGA 1500/2000/4000

Active 8 port high speed serial card. Multiboard Support 57600 Baud rate on all channels simultaneously.£299

New AlfaQuatro

Specially made hardware and software. Allows 4 ATAPI devices, ie, 2 IDE hard disk & 2 IDE CD Rom to Amiga 4000 internal IDE controller, through Alfapower on Amiga 500/500+ and possibly Amiga 1200 comes, with full IDE Fix software£59

Connexion New Ethernet Card

FOR AMIGA 1500/2000/4000

Features:

- 10Mbit Ethernetcard for A2000/3000/4000
- 16 Bit-Zorro-Bus Design - gives highest transfer rates while minimizing CPU load

Speakers

Multi Media Speakers	
25 watt (pmpo)	£29.35
Multi Media Speakers	
100 watt (pmpo)	£39.95
Multi Media Speakers	
240 watt (pmpo)	£49.95
Multi Media Speakers	
300 watt (pmpo)*	£59.95

* 3D surround sound



92% AUI

Floppy Drives

External Floppy Drive for all Amigas	£39.95
Internal Floppy Drive A500/500+	£35.00
Internal Floppy Drive A600/1200+	£35.00
A-Grade Double Density box of 50 disks	£13.00
including colourful labels	



IDE Hard Drives

HARD DRIVES + AT-BUS CONTROLLER FOR AMIGA 500(+)/A1500/A2000/A3000/A4000

AT-Bus hard drive controller	£69.00
Alfapower hard drive controller	£99.00
Alfapower-540 540Mb hard drive	£199.00
Alfapower-850 850Mb hard drive	£219.00
Alfapower-1.0G 1.0Gig hard drive	£239.00
Alfapower-1.2G 1.2Gig hard drive	£259.00



Memory for Alfapower-Plus (new) marked Alfapower-Plus

2Mb SIMMS	£30.00
4Mb SIMMS	£30.00
8Mb SIMMS	£60.00
16Mb SIMMS	£90.00

Memory for Alfapower (old)

Every 2Mb Zip-Rams	£89.95
--------------------------	--------

IDE 2.5" Hard Drives

FOR AMIGA 600/1200

IDE-60 60Mb hard drive	£55
IDE-120 120Mb hard drive	£79
IDE-340 340Mb hard drive	£120
IDE-540 540Mb hard drive	£150

IDE 3.5" Hard Drives

FOR AMIGA 1200/4000

IDE-540 540Mb hard drive	£129
IDE-840 840Mb hard drive	£130
IDE-1.0G 1.0Gig hard drive	£175
IDE-1.3G 1.3Gig hard drive	£179
IDE-1.7G 1.7Gig hard drive	£195
IDE-2.1G 2.1Gig hard drive	£239

Miscellaneous Products

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
Colourful Mouse Mat	
Animal Jungle design and Dinosaur design	£5.00
Optical Mouse Mat	£5.00
2 in 1 Scanner/Mouse Pad	£9.95
Contoured Wrist Pad	£5.50
Plain Wristrest	£3.50
2Mb SIMMS	£30.00
4Mb SIMMS	£30.00

CD CLEANERS - 1/2 PRICE

CD Rom Cleaner	£3.00
Automatic CD Rom Cleaner (battery powered)	£10.00
Laser Lens Cleaner	£4.50

Complete CD Rom for all Amigas

Quad Speed CD Rom for A500	£129
(needs Alfapower V6.8 or higher)	
Quad Speed CD Rom for A600/A1200	£149
(inc CD32 emulation)	
Quad Speed CD Rom for A1500/A2000/A4000	£109

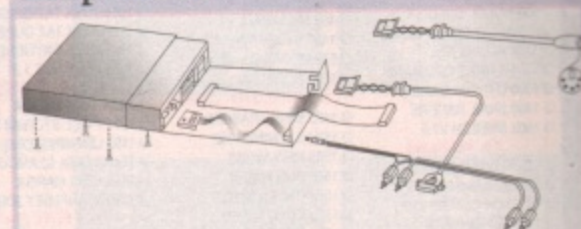


External IDE CD Rom Upgrade Kit

comprises of:

Metal case, screws, Power Connector (draws power from disk drive port) Power Connector (for optional external Power supply), IDE ribbon cable, Stereo Audio Cables (will require an interface).

Kit price £39



Special Offer for this Month

Quantum 850mb 3.5" HD	£125
Quantum 1.7Gig 3.5" HD	£195
Quantum 2.1Gig 3.5" HD	£230
2.5" IDE 60Mb Hard Drive	£55
2.5" IDE 340Mb Hard Drive	£120
2.5" WD 540Mb Hard Drive	£129

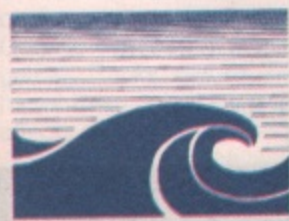
STAR BUY

Viper Board A1230 33MHz with 16Mb Memory	£199
8 Speed CD Rom Drive for A1200/A600	£189
Migraph's Multipass OCR Software with manuals (limited stock)	£20

Accelerator Boards

A1220 APOLLO Accelerator Board	£99.95
A1220 APOLLO Accelerator Board + 4Mb	£129.00
A1230 VIPER Accelerator Board 33MHz	£119.95
A1230 VIPER Accelerator Board + 4Mb 33MHz	£169.95
A1230 VIPER Accelerator Board + 8Mb 33MHz	£180.00

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 Access, Visa, Cheques & Postal Orders. E&OE. Prices subject to change without notice. Goods subject to availability. Specifications subject to change without notice.



GoldenImage (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



FREE FREE

GAMES CHEATS 1.4 EMULATOR

ON ALL ORDERS



FREE FREE

LIBRARY DISK POST & PACK

ON ALL ORDERS

- | | | | |
|---|--|--|--|
| <p>PLATFORM GAMES</p> <ul style="list-style-type: none"> 1330 CAPTAIN BONUS 1233 ROACH MOTEL 1445 10 C.W. GAMES 1553 LANCE-O-LOT 1482 CHARLIE COOL 1712 DITHELL & MUCUS 1701 ITS HIDEOUS 1684 THE BIRDIES <p>SPACE BLASTERS</p> <ul style="list-style-type: none"> 911 SOLO ASSAULT 906 OBLITERATOR 498 THE LAST REFUGE 1434 SPACE BLASTER 1473 EXENEX AROIDS 1706 THE ASTRO KID <p>ARCADE GAMES</p> <ul style="list-style-type: none"> 555 HUGO V2.5 DISK 273 KELLOGGS EXPRESS 1368 ALIENS F.F. 1338 STRIKE COMMAND 1500 U.P.D. 24 GAMES 1468 SNAIL RACERS 1502 SNEECH V1.5 <p>P.D. VERSIONS</p> <ul style="list-style-type: none"> 025 HUNTER PLUS 815 LEMMINGS PACK 023 RICK DANGEROUS 1457 T-FIGHTERS 022 THE GODS 026 ROBBOCO V2 1703 S.W.O.S. EARTH 1702 S.W.O.S. MOON <p>COMBAT GAMES</p> <ul style="list-style-type: none"> 941 FATAL BLOWS 938 MARTIAL SPIRIT 290 FIGHT WARRIORS 1238 WEAPON MASTERS 1428 CYBERGAMES 3DSK 1548 FIGHT A1200 <p>CLASSIC GAMES</p> <ul style="list-style-type: none"> 011 ASTEROIDS 693 MISSILE COMMAND 778 OVERLANDER 682 SPACE INVADERS 841 COOKIE 308 DONKEY KONG <p>DRIVING GAMES</p> <ul style="list-style-type: none"> 951 FLAMMING ENGINES 469 THE ROAD TO HELL 1417 MANG FENDERS V2 1466 A12 KNOCK OUT 1642 A1200 EX RACING 1686 HILL CLIMB 1705 A12 AER RACERS 974 F1 EDITOR 956 <p>SIMULATORS</p> <ul style="list-style-type: none"> 1329 BASEBALL GAMES 926 HELICOPTER 332 SEALANCE-SUB 333 BATTLE CARS V2 1273 A12 TRAIN DRIVER <p>SPORT GAMES</p> <ul style="list-style-type: none"> 1014 CRAZY GOLF 366 GOLF 18TH 2 DISK 822 CRICKET AMOS V2 830 TEN PIN BOWLING 104 FUTURE FOOTBALL 1171 2 DISK CRS-ANGLER 1373 ICE HOCKEY 1317 A12 GON FISHING 1465 A12 2DISK TENNIS 1251 TENNIS TOUR 1630 INTER CRICKET 1700 GOLF 9 HOLES 1667 TABLE TENNIS <p>HINTS & CHEATS</p> <ul style="list-style-type: none"> 418 1000 CHEATS 931 BACKDOOR V3 821 PASSWORD MANIA 813 GAME TAMER V4.5 820 MEGA CHEATS 881 SIERRA SOLUTIONS 1118 UP TO DATE V1 1358 GAME SOLUTIONS 1462 G-SOLUTIONS V2 1653 SOLUTIONS V3 1651 SOLVES 6 DISK <p>OVER 18 GAMES</p> <ul style="list-style-type: none"> 1328 ADULT JIGSAWS 1307 TERRORLINER V3 997 2 DISK ADVENT V1 1001 2 DISK ADVENT V2 101 TERROR LINER V1 1081 ADULT TETRIS 1176 A12 NUMBERS V2 1248 STRIP POKER 1145 A12 NUMBERS V1 1335 ADULT DROIDS 1533 DRAGONS BALL 1517 ADULT BOMBER 1514 STRIP SLOTTED 1643 TERROR LINER V4 1654 LEGO BREAKOUT | <p>TETRIS - COLUMNS</p> <ul style="list-style-type: none"> 294 KLACK-TRIS COLMS 107 TWIN-TRIS TETRIS 293 DR. MARIO COLMS 626 MEGA-BLOX TETRIS 1802 SUPER FOUL EGG 1627 PILL - MANIA <p>PAC-MAN GAMES</p> <ul style="list-style-type: none"> 230 SUPER PAC MAN 252 YUM YUM PAC MAN 1096 PUC MAN 1138 A12 CYBER MAN 1346 WABES PAC MAN 1648 A12 BOBS LEMON 230 SUPER PAC-MAN <p>BREAK-OUT & PONG</p> <ul style="list-style-type: none"> 003 MEGABALL V1 459 MEGABALL V2 1459 CYBERSPHERE 559 MEGABALL V3 1704 BORIS BALL <p>BOULDERDASH GAMES</p> <ul style="list-style-type: none"> 1423 MINE TRASHER 1527 ICE MINE PRO 1595 NEW MINES 1569 BUG MINES 1572 UNDER MINES 1573 GOLD MINES 1577 EMERALD HEAD 1580 EXPERT MINES 1582 DENMARK MINES 1583 STYX MINES 1689 RO-BOULD-IX <p>PUB-CLUB GAMES</p> <ul style="list-style-type: none"> 1304 CHECKERS V2 222 FRUIT MACHINE 375 CARDS SOLITAIRE 1246 AMIGA CRIBBAGE 1362 PUB DARTS TOUR 560 WORLD DARTS 1450 SAT SNOOKER 1112 A1200 X CARDS <p>BOARD GAMES</p> <ul style="list-style-type: none"> 910 NEW MONOPOLY STAT 631 SCRABBLE 476 CHESS GAMES 1433 LIFT & LADDER <p>ADVENTURE GAMES</p> <ul style="list-style-type: none"> 116 STAR TREK 2 DISK 297 NEIGHBOURS 2 DISK 1359 A12 ALIEN SPACE 1503 4DSK A.N.G.S.T. 1821 INTRO - GASH 1711 A12 INGENUOUS 1671 BREED 1996 <p>STRATEGY GAMES</p> <ul style="list-style-type: none"> 876 GLOBAL NUKE WAR 828 IND-ESPIONAGE 1182 A12 NIGHTMARE 1170 A12 LORDS 2 DISK 1347 BATTLE AT SEA 1431 UFO UNCLOTHED 1547 SOLD STAR TREK 1623 FLEET - ZMEG <p>PUZZLER GAMES</p> <ul style="list-style-type: none"> 953 CHANEQUE 2 DISK 914 JINX A1200 2 DISK 1135 SPRING TIME 1211 AMIGA GEMZ 859 10 PUZZLERS 1550 PUZZLER PITS 1546 EXPERT BALLS 1633 THE WOOGLIES <p>MANAGER GAMES</p> <ul style="list-style-type: none"> 876 SCOTTISH LEAGUE 404 METROS MANAGER 321 AIRPORT 322 MICRO MARKET 443 SLAM BALL 817 BLOOD BALL 1429 ULTI MANAGER 1699 PREMIER PICS <p>QUIZ GAMES</p> <ul style="list-style-type: none"> 1033 TAZ QUIZ NOT 1.3 1031 TREK TRIV 5 DISK 718 POP MUSIC QUIZ 309 THE QUIZ MASTER 482 WHEEL OF FORTUNE 1597 QUIZ 555 1683 HOLLYWOOD TRIV 1670 A12 DEATH ROW <p>LOGIC GAMES</p> <ul style="list-style-type: none"> 1037 MARBLES GAME 1035 ATOMIC GAME 119 DRAGON'S TITLES 112 DRAGON'S CAVE 1389 BOOMIN ECK! 1463 FULL SCNEBITZ 1477 BOMB MANIACS 1476 MARBEL-LOUS 1687 TILE MANIA | <p>AMIGA LEISURE</p> <ul style="list-style-type: none"> 205 AMIGA PUNTER 228 PERM CHECKER 1210 LOTTO LUNATIC 1438 A-GENE V5 1594 LOTTERY SYSTEM 1682 THE PHYSICIAN <p>A1200 MEGA DEMOS</p> <ul style="list-style-type: none"> 1270 DOOM RAVE 1220 AMIGA JAMMIN 1165 VENTILATOR 1414 2 DISK DOVE 1415 MYSTIC ILEX 1605 TAZ INTROS V3 1685 2 DISK JADE <p>AMIGA MEGADEMOS</p> <ul style="list-style-type: none"> 460 TEKNO RAVE 1015 2DSK TAZ QUEEN 1120 2DSK TAZ QUEEN 2 1104 2DSK OXYGENE 1084 ASCII NOT 1.3 <p>A1200 SLIDE SHOWS</p> <ul style="list-style-type: none"> 740 4 DISK MANGA 1271 PIXEL STORMS 1193 LEMMINGTONS 1040 3 DISK GLAMOUR 1646 MISS MANGA 1660 STARFLEET 3DSK <p>AMIGA SLIDE SHOWS</p> <ul style="list-style-type: none"> 704 REVELATIONS 061 PAT NAGEL'S GIRLS 936 AVIATION HISTORY 1060 SDSK LION KING 1498 NIGEL MANSELLS 1472 YABA DABA DO <p>ARTWORK PACKAGE</p> <ul style="list-style-type: none"> 485 KIDS PAINT 664 FUSION PAINT 063 ULTRAPAIN 349 SPECTRACOLOUR 748 ILLUSION PAINT 1460 A-Z PAINT PAD 1585 CARTOON STUDIO 1707 PERFECT PAINT <p>ARTWORK PROGRAMS</p> <ul style="list-style-type: none"> 1299 A12 MAGNI-CAD 1026 JPEG GIF VIEWTEK 071 GRAPHICS CON KIT 070 GRAPHIC UTILS 133 FRAC LAND BUILD 1026 PICTURE LAB <p>ANIMATIONS</p> <ul style="list-style-type: none"> 084 PUGGS IN SPACE 233 COOL COUGAR 651 FAIRLIGHT 242 831 RED DWARF 475 BAIT MASKING 463 MR POTATO HEAD 474 MISS MAMISELLE A12 865 TARTO MASTER 2 DISK 271 NEWTEK V2.2 DISK 347 NEWTEK V3 2 DISK 187 ANIMATION STUDIO 1449 BATMAN V JOKER 1447 2 DISK JAPMANGA 1695 BAIL OUT V2 <p>AMIGA VIDEO</p> <ul style="list-style-type: none"> 329 VIDEO INSCRIPT 750 VIDEOCRACKER 5 DISK 148 S-MOOVIE <p>MUSIC MAKERS</p> <ul style="list-style-type: none"> 220 FUNK KEYBOARDS 431 RAVE KEYBOARDS 661 MED WORKSHOP 4 DISK 202 MED V3.2 729 DRUM MACHINE 787 SONIC DRUM KIT 866 OCTAMED TUTOR 738 OCTAMED V2 136 THE ART OF MED 192 THE COMPOSER 618 MUSIC DATABASE 981 AUDIO ENGINEER 1268 HIPPO PLAYER 1681 PROTRACKER 3.5 <p>CLASSIC-POP</p> <ul style="list-style-type: none"> 1029 COTTONEYE SONG 201 PIANO CLASSICS 234 VIVALDI 2 DISK 342 AMIGA-DEUS 213 DIGI CONCERT V2 620 BAGPIPE MUSIC 248 EXPRESSION V2 473 RHYTHM'S DANCER 1357 2 MEG DACO VI <p>SAMPLES - MOODS</p> <ul style="list-style-type: none"> 660 KOR9 01W 8 DISK 206 SELECTION 7 DISK 847 SOUND FX 3 DISK 619 DRUMS 2 DISK 1686 URBAN 6 DISK 1588 DANCE 5 DISK 1258 MOVIE SAMPLES* | <p>AMIGA EMULATION</p> <ul style="list-style-type: none"> 423 2 DISK SPECTRUM 889 PC EM 2 DISK 327 ACTION REPLAY 955 DOWN TO A500 313 UP TO A500 PLUS 414 UP TO A1200 <p>DISK COPIERS</p> <ul style="list-style-type: none"> 380 NIBBLER (NIB) 727 MULTI TASK (MT) 158 X.COPY PRO 357 COPY AND CRACK 325 LOCK PICKER V2 1667 COPY & CRACK V2 <p>HARD DRIVES</p> <ul style="list-style-type: none"> 191 HD CLICK MENU 779 WB 3 INSTALL 780 WB 2 INSTALL 621 HD STACKER 665 MR BACK UP PRO 490 8 DISK MAGIC WB 957 GAME INSTALL V2 1141 GAME INSTALL V3 1199 GAME INSTALL V4 1692 A BACKUP V5 1674 CD ATAPI <p>PRINTING</p> <ul style="list-style-type: none"> 243 AWARD MAKER 4 DISK 065 AMIGA FONT 7 DISK 100 PRINTER DRIVERS 048 PRINTING STUDIO 345 BANNER MAKER 057 TEXT ENGINE V4 394 INVOICE PRINT 749 FORM PRINTER 1658 CARD AND LABEL <p>AMIGA BUSINESS</p> <ul style="list-style-type: none"> 832 DATABASES 2 DISK 082 ACCOUNT MASTER 240 ADDRESS BOOK 691 DAILY DIARY 470 LITTLE OFFICE 244 SPREADSHEET 535 UK S.T.D CODES 1464 DIARY 2000 1366 AMIBASE V4 <p>COLOUR CLIPART</p> <ul style="list-style-type: none"> 637 6 DISK COLBRUSH 633 7 DISK CLIP ART 901 9 DISK WORLD MAP <p>MONO CLIP ART</p> <ul style="list-style-type: none"> 172 15 DISK PORTFOLIO 558 7 DISK CLIP ART <p>AMIGA MODERN</p> <ul style="list-style-type: none"> 702 COMMS TUTORIAL 413 N.COMMS V3 079 OPTICOMMS V2 1032 MAX BBS PROG 1562 EASY D.M.S. <p>PROGRAMMERS</p> <ul style="list-style-type: none"> 1303 DOS - MANUAL 288 A-BASIC TUTOR 306 UNDERSTAND AMOS 722 TONS OF AMOS 1087 AGA DATATYPES 1691 NORTH C <p>DO IT YOURSELF</p> <ul style="list-style-type: none"> 1097 2DISK HELM 239 SLIDESHOW MAKER 808 MAKE A DISK 242 MENU MAKER 1154 HEDLEYGUIDE A12 1181 M.U.I. NOT 1.3 <p>MUSIC CONTROL</p> <ul style="list-style-type: none"> 505 A1200 VIRUS 160 M.V.K PLUS 1440 Z CHECKER V6.4 <p>AMIGA UTILITIES</p> <ul style="list-style-type: none"> 1030 A12 DIONIC TOOLS 612 4 DISK TOOL KIT 1629 UN-ARCHIVER <p>DISK & SYSTEM</p> <ul style="list-style-type: none"> 186 SYSTEM TESTER 467 FILE UNDELETE 194 DISK OPTIMISE 356 ENGINEERS KIT 245 FIX DISK 188 HARDWARE MANUAL <p>AMIGA EDUCATION</p> <ul style="list-style-type: none"> 786 GEOGRAPHY 532 MATHS 5 DISKS 644 ENGLISH 4 DISK 486 LANGUAGES 4 DISK 270 PLANETS 6 DISK 304 ENGINES 5 DISK 059 AMIGA TUTORIAL 1269 DPAINT 4 TUTOR 937 A1200 / 800 TUTOR 1361 2 DISK INTERNET 1360 AMIGA GUIDE |
|---|--|--|--|

DISK COST £1.50 EACH, NO MINIMUM ORDER, ALL VIRUS FREE AND USER FRIENDLY.
 All games are on 1 disk and run on all Amiga's unless otherwise stated
PICK AN EXTRA DISK FOR FREE WITH EVERY EIGHT DISKS YOU PURCHASE

UNDERGROUND PD, 54 CARMANIA CLOSE, SHOEBURYNESSE, ESSEX SS3 9YZ. TEL: 01702 295887

Name: Amiga Model:
 Address:
 Postcode:



**COMPUTER REPAIRS
SALES, SUPPLIES
& SERVICE**

* RAPID TURNAROUND
* 90 DAY WARRANTY

* Price includes PARTS, LABOUR & VAT
* Return delivery for computers (U.K.) add £5.00
power supplies / modulators add £3.50
Overseas please ring
Prices do not include hard discs / upgrades
* TO SAVE YOUR TIME & POSTAL COSTS
Please ring before sending your equipment

Hindley Electronics ComputerCare Ext. 1986

****REPAIRS****

A500/500+	£34.99
A600	£34.99
A1200	£43.99
POWER SUPPLIES	£19.99
MODULATORS	£19.99

PRINTERS & MONITORS PLEASE RING FOR DETAILS

INK CARTRIDGES

Canon BC01	£16.45
Canon BC02	£17.63
Canon BJC4000 Colour	£12.93
Canon BJC300/330	£13.50
HP 51625A Tri Colour	£24.50
HP 51626A Hi Capacity	£20.56
HP 51629A Tri Colour (HP600)	£24.99
Epson Stylus 800/1000-Black	£8.81
Epson Stylus Colour - Black	£10.56
Epson Stylus Colour - Colour	£19.96
Epson Stylus Colour II/III - Black	£17.50
Epson Stylus Colour II/III - Colour	£24.95
Olivetti JP150 / Citizen Project	
Twin Cartridge - Black	£10.56
Full Cartridge c/w Head - Black	£19.86
Colour Cartridge	£32.31
Inkjet refill kits from (40ml twin pack)	£7.99

Many other carts inc. laser carts available.
see our list or ring for details.

DISKS

BRANDED GUARANTEED QUALITY
 PER BOX OF 10 DSDD £3.50
 DSHD £3.99

MICE

HIGH QUALITY MICROSWITCHED
 COMPATIBLE AMIGA MOUSE FROM £7.99

DUST COVERS

A500, A600, A1200 one price £3.49

LEADS

COMPUTER TO TV	£1.99
AMIGA TO SCART	£9.50
MODEM 25P D TO 25P D	£7.99

SIMMS

8MB 72 PIN £46.99 16MB 72 PIN 70n £95.00

MISC

CD Single Jewel cases 59p ea. or 5 off £2.50
 6mm MOUSE PAD £1.16
 RED, BLUE, GREY, YELLOW OR BLACK

THE ABOVE ARE JUST A FEW EXAMPLES OF OUR RANGE OF PRODUCTS

**** RING FOR A COPY OF OUR MAIL ORDER LIST ****

REPAIRING COMPUTER HARDWARE FOR TEN YEARS

47/49 RAILWAY ROAD, LEIGH, LANCS. WN7 4AA
 ☎ (01942) 261866 / 672424 FAX (01942) 261094
 EMAIL 100577.1461@COMPUSERVE.COM

All major credit cards / Switch accepted. Add £1.50 P&P on small quantity purchases / bulk purchases - ring for details. All prices include V.A.T. We reserve the right to refuse any repair. Prices subject to change without notice. Terms & conditions available upon request

HORNESOFT PD

DEPT (CU1) 23 Stanwell Close, Wincobank, Sheffield, S9 1PZ
 Tel: (0114) 2967825 Fax: (0114) 2492950 Email:

OVER 17000+ DISKS AVAILABLE

For a copy of our superb easy to use catalogue disk send 2 X 1st class stamps also included is a free utility of our choice on the catalogue.....

BELLE'S PAINT v2.0

Belle's paint is an easy to use paint package which contains many innovative ideas. Originally designed for children the program has now grown to include "dot to dot" module, an entire image processing suite, enhancements to the video titling system plus many other refinements. A superb paint package at a great price. Main features include: FULLY PRINTED MANUAL, USES COLOUR & IFF FONTS, LINKS PICTURES FOR TITLING WITH SCREEN WIPES, CONTAINS 8 DOT TO DOT PICTURES FOR KIDS, LARGE SELECTION OF STANDARD PAINTING TOOLS. To use belle's paint you will require an Amiga with a minimum of 1mb chip memory & workbench v2.0 and above to use this superb paint program. Fun for all ages for get spending £25-£30 on a paint package buy this for just £5.99 + 50p postage and have hours of fun for your money... order your copy NOW!!!



Cheques/Postal orders Payable to : HORNESOFT PD

CREDITCARD SALES MON-FRI 9.30am-5pm (0114) 2967825



WHAT DO YOU GET FOR £53

- FREE TYPESETTING, FREE COLOUR
- FREE COPY OF THE MAGAZINE
- MORE TECHNICAL COVERAGE
- MORE SOFTWARE COVERAGE
- MORE PUBLIC DOMAIN COVERAGE
- MORE PROMOTIONS
- BETTER COVERDISKS
- ABOVE ALL

THE BEST VALUE FOR MONEY PACKAGE IN THE
 AMIGA MARKET
MARIANNA MASTERS ON
0171 972 6700

WANT TO CREATE YOUR VERY OWN AMIGA GAMES, DEMOS AND EDUCATIONAL SOFTWARE, BY USING NOTHING MORE THAN YOUR COMPUTER'S MOUSE?

Have you ever dreamed of creating your very own Public Domain or Commercial software products without having to program?

Well now it is no longer a dream - it's REALITY!

REALITY - THE ULTIMATE SOFTWARE CONSTRUCTION KIT is a REVOLUTIONARY new product from B.P.M. Promotions, a company involved in the AMIGA software market for over five years. This product is a BREAKTHROUGH in software design and allows anyone with an AMIGA computer, regardless of their age or intelligence, to create both Public Domain and Commercial software products in virtually no time at all using nothing more than their computer's mouse! It can be used to create games, demos, educational software etc, much much faster and easier than ever before throughout the history of computers! REALITY is like nothing you've ever seen before on the AMIGA. Now for the first time you can access the awesome power of your computer with bewildering ease and use it to create TOP CLASS AMIGA software in few days by doing nothing more than clicking the buttons on your mouse or moving the mouse cursor around the screen - that's it! It's so easy you will not believe it! No programming is required whatsoever!

Here is a small example of what you can achieve in minutes with Reality by using nothing more than your Amiga's mouse:

- Create HUGE fully detailed scenery back grounds for your games using the background creation editors!
- Make your games main character shoot all sorts of different weapons each with different power values!
- Define monster attack patterns and choose from the HUGE amount of already made variations!
- Create intelligent enemies that home in on your main character!
- Add text messages to the software with hundreds of different styles of text fonts to choose from!
- Create SUPER intelligent GIANT mid level and end of level monsters just like the very best commercial games!
- Produce scenery that your main character reacts to : Ladders, Ropes, Platforms, Traps, Switches etc etc!
- Define complex puzzles to make your games much more interesting!
- Make other games characters that your main character can interact and communicate with!
- Select and define all sorts of weapons, bonuses and objects that your main character can collect and use!
- Create characters that have to fight each other in a beat 'em' up - STREETFIGHTER II style!
- Produce ALL sorts of demo effects from groovy text scrollers to on screen 3D rotation just like the very best PD demos!
- Create Educational software from a simple slideshow to a full blown disk magazine!
- Add graphics, music and sound effects to your software with ease!

THE LIST IS ENORMOUS!!!! - Test your software in seconds to see if everything is working the way that YOU want it to! There's no need for any slow compiling or testing like certain other packages!

REALITY can be used to create many types of different software products! It's ideal for TOP notch games! Create HIGH speed shoot 'em' ups, Addictive scrolling platform games, Beat 'em ups, Point and Click Graphic Adventures, HUGE Arcade games, Puzzle games, Racing games, Card games and much much more! Even create your own mind-blowing special effects demos or user friendly Educational software! Just look at the screenshots in this advertisement and see just what this system is really capable of!

Over four man years of work has gone into the development of this Software!

The result is:

A STATE OF THE ART SOFTWARE CREATION SYSTEM! It's *versatile* - it's *easy to use* - it's *incredibly fast* - It's *the biggest ever breakthrough in Amiga software creation and has already been used to create twenty commercial games and a multitude of PD software!!*

If you can use an AMIGA you can use REALITY! All the hard work has been done for you! With once complicated programming routines reduced to simple mouse actions that anyone can understand! That's the hidden power of REALITY! Absolutely no knowledge of programming is required whatsoever Reality is unique! It is a completely new way of creating software! **MORE THAN TEN 90% SCORES HAVE BEEN AWARDED TO REALITY SO FAR FROM MANY DIFFERENT AREAS OF THE AMIGA COMMUNITY!**

What you get!

The very latest version of the REALITY software construction kit which incorporates a whole batch of useful and essential utilities. These include: an Animation and Sound Studio, a Graphics toolkit, a Background creation system, Picture and Introduction creators, a FULL blown paint package, Text editing and disk utilities plus much much more! You'll also receive a fully detailed user friendly instruction guide and a handy hints and tips guide! Two further guides that will show you how to make two full blown games from scratch! Two full blown commercial games that have been created using REALITY for you to adapt and learn from! Issue one of the REALITY USER CLUB disk magazine! Two packed disks full of sound effects, music tracks and a MASSIVE amount of graphic images that can be used in your own software! These include characters, enemies, weapons, bonuses, scenery, fonts and MUCH MUCH MORE!! You get everything you need for creating your own full blown top quality software with ease!

You'll also get FREE membership to the Reality User Club!

This will provide you with a phone helpline, a penpal list allowing you to contact and work with the already -MASSIVE REALITY userbase from around the globe! You will also have access to a HUGE range of software that has been created using the REALITY system and 1000's of graphic images, sound effects and music tracks which you can use with your own software! We are willing to publish any software that you create using REALITY or if you wish you can have other companies publish your work! The REALITY user club can supply you with ALL the graphics, music, sound effects and ideas that you need to create superb software with this system. ALL the hard work has been done for you!

So what do you have to pay for this totally amazing system?

Only £29.99! This product is worth many times this price and only due to forecasted large sales, low cost advertising and direct sales to the customer are we able to offer it at this unbeatable price! By creating only one piece of software you should get your money back many many times over! How much software do you wish to create? What more can we say other than you would be crazy not to take up this very special offer! Creating software is much more interesting than using it, and REALITY is the perfect tool! Please note that the REALITY package is compatible with ALL AMIGA computers and is hard disk installable!

Screenshots of games created with REALITY



HOW TO ORDER

Please send a cheque, Postal Order, International money order to:

B.P.M. PROMOTIONS, DEPT CU2, 8 MAGNOLIA PARK, DUNMURRY, BELFAST BT17 0DS

PHONE 01232 626694 - PRICE £29.99

UK postage £1, Overseas please add £2.

All payments must be in English Sterling! 24 Hour despatch.

EXTRA SPECIAL OFFER - Order NOW and receive a FREE never been released before guide on 'HOW TO DESIGN A WINNING COMPUTER GAME' written by one of the TOP games designers in the business! Essential reading for any budding games makers!



Masterclass

PART 5 Icon see clearly now that I understand what my icons are there for. And soon you will know all about it too.

Like germs, there are hundreds of files scattered all over your system which you might never have seen or even looked at but they're there all the same. Unlike germs though, these files don't spread nasty diseases and make you feel ill. They are vital to your system and contain indispensable information about your programs and data. They also help to define the presentation of your Workbench. So what types of files am I referring to? Why, icons of course.

Icon see you

When you open a window on the Workbench to look at a list of files, the default setting means

that you will see only the files with icons. The icons are actually files themselves. They have identical names as their corresponding files only with '.info' appended. For example, if you have a program called 'Plop' then there will also be an icon file called 'Plop.info'.

To view these icon .info files you need to go to the Shell or some other application program. This is because the Workbench tries to maintain the illusion that the .info files are an integral part of the original programs and data by

making sure it never displays them. Even if you use the Workbench menu option Window/Show/All Files ... you won't see the .info files. This option merely displays the files which don't have icons using default .info files. If a file doesn't have an icon, that means it doesn't have a corresponding .info file. For example, there may be a program called 'Plop' but there is no file 'Plop.info'. Neither will Workbench display the .info files when you use the menu Window/View by/Name. It still hides the .info files so you don't get confused.

IconEdit

So how do you tell which Icon is which? Easy, just use the IconEdit program which is part of the Workbench installation. You'll find it in the Workbench/Tools drawer if you have installed all your floppies to hard drive.

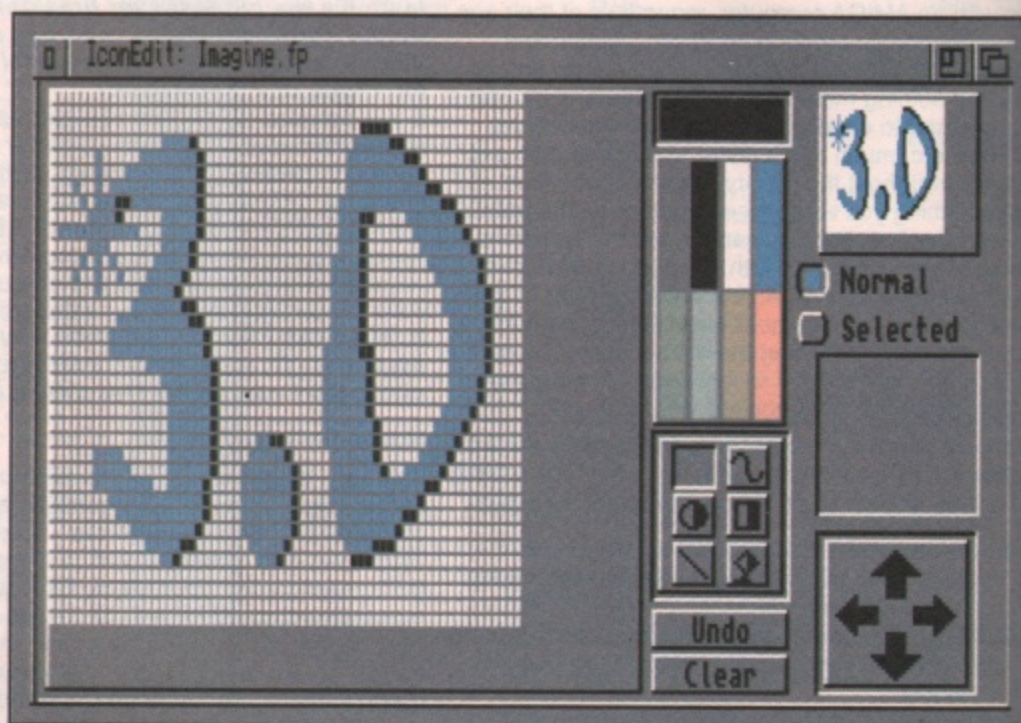
When you run this program, it opens a Window on the desktop. Now you can drag and drop any icon from the screen into the Window. When you do, it opens the .info file and displays the icon in a magnified form, just in case you want to redesign it.

However, if you use the menu option 'Type', you'll see a list of the possible icon types with a tick next to the relevant type.

Using IconEdit you can adjust the appearance of icons or even create some from scratch. You are free to use the drawing and text tools to design and save your own icons: the only thing you really need to remember is to get the icon type right from the Type menu before you save them. You can have great fun designing icons which flip between two different images: drawers can open, disks can spin and comic characters can animate. Modern technology is a wonderful thing!

Downsizing

By the way, the version of IconEdit which comes with Workbench 3 has a little bug in that it sometimes saves out an icon which is way too large: for some reason a huge rectangle is saved as well as the icon pattern. To get around this, I use the IconEdit which came with Workbench 2, as this version is a bit more reliable. If you like designing icons, then find the freely distributable utility named



▲ How to identify those icons: just use IconEdit and you soon find out. You can also chop and change icons here if you wish.



▲ You can also find out the name of the program that created a project icon using WB's icon information option.

'Iconian'. This program includes a lot of very useful drawing tools.

If you are designing icons and are having programs with the paint tools and colours, try using an art package instead.

IconEdit can import IFF brushes to use as icons, so there is nothing to stop you designing your patterns in Deluxe Paint or Personal Paint and then loading them into IconEdit at the last moment.

Make sure you get the palette right. The easiest thing to do is to load or grab a snapshot of the Workbench screen, as this will automatically set the number of colours and the palette.

Undercover

So, how does a Project icon know the name of the Tool program which created it? Simple, it's stored into the .info file itself. You can examine the contents of the .info files using the Workbench icon menu option Information, or use the hotkey Right Amiga/I. This will pop up a display like the screenshot above, where you can see that the Project icon includes a link to the program which created it.

You can edit this information, to make the icon point to different programs. This is a handy way of getting around problems with cover disk programs.

For example, sometimes the authors of the programs assume that their hard drive is the same as everybody else's so they might include the default tool:

```
C:/multiview
```

However, no-one else has the tool 'multiview' in their C directory. If this is the case, you can easily edit the .info file yourself and ensure that the default tool is set up properly. In this way, you can also get text files to point to your word processor and your paint program.

Default icons

There is a way to alter the default icons which Workbench sometimes uses. You can find these .info files in the ENV:sys drawer in the RAM disk (for temporary experiments) or in ENVARC:sys drawer on the boot disk (hard or floppy) for permanent changes. You can load these files into IconEdit, alter and save them.

Now when the Amiga needs to display a default icon, it will make use of your new and improved set. This is how utilities like Magic Workbench alter

even the icons which haven't been displayed yet.

Only files?

All this doesn't change the fact that .info files are still only files, and nothing more. The Workbench may treat them differently, but at the Shell level they are merely files with no special abilities or features. As a result, you can delete, copy or rename the .info files independently of their owners.

There is nothing to stop you renaming the 'Plop.info' file to be 'SuperPlop.info'. This is different from the Workbench rename feature: the Workbench rename will automatically rename both the 'Plop' file and the 'Plop.info' file. If you rename the .info file by hand, two things will happen:

Firstly, there will be a new icon called 'Superplop' displayed on screen, and when it's clicked on nothing will happen.

Secondly, unless you have the Workbench option Window/Show/All Files switched on, you won't be able to see the program Plop anymore from the Workbench. You have effectively separated the program from the icon.

That's it for Masterclass this month. If there are any topics that you would like covered in this tutorial or if you have any unanswered questions please don't hesitate to write in to me care of Q&A at the usual address. ■

John Kennedy

What's the point of these files?

Why the need for icons at all? The Amiga uses icons to help you keep tracks of files and to help itself keep order. There are five different types of icons, and these reflect the different types of data which can be stored. Icons can be one of the following:

Disk



This icon class is reserved for disk drives and includes RAM drives, floppy and hard disks and CD-ROM drives too. Double click on a Disk icon and a directory listing window will appear.

Tool



This icon is typically used by any program to create or modify data. For example, a word processor program would have a Tool icon. So to load and execute the program you need to double click on the Tool icon.

Drawer



A drawer indicates a directory. When you double click on the drawer icon it opens and another window is then displayed.

Project

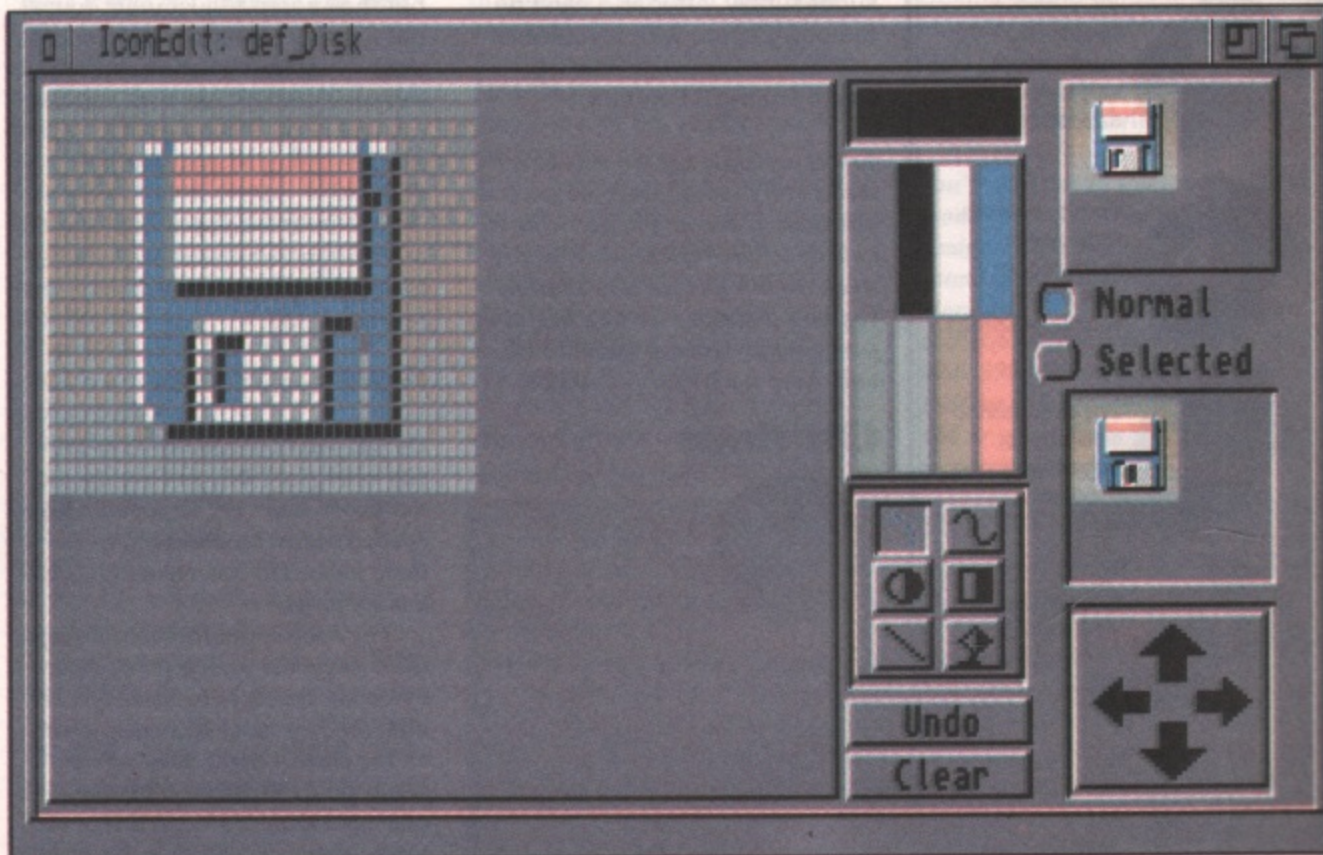


A project is a file which contains data. It's special, because it also contains a link to the Tool that created it. For example, a document created by a word processor would be a Project icon, and it would contain a link to the word processor itself. If you double click on the Project icon, it attempts to re-load the Tool which created it.

Garbage



This is the type of icon used by a Trashcan Icon where files can be temporarily stored before deletion. When you double click on it, it displays the files it contains, just in case you need to bring them back from the brink. All programs which have icons will have one from the above types. Even programs which don't have icons, can pretend they do. The Workbench is so keen to keep this visual, that it has a set of built-in icons which it can use in an emergency. So when you select the Workbench menu option "Show/All Files" it uses these default icons. It's possible to change the design of these icons if you wish; we'll see how later.



▲ You can easily change the default icons by loading them into IconEdit and altering them there.

Logos, meanings and mysteries:



CD32 queries, ParNET and various other CD ROM-related problems.



All about upgrading RAM, operating systems and processors.



Plug-in hardware of any kind: scanners, disk drives etc.



Answers to queries on particular pieces of software.



Music, sampling, MIDI and anything that makes a loud noise.



Miscellaneous tools to keep your Amiga running smoothly.



Form-feeds, page-breaks, preferences and lots, lots more!



Monitors, TVs, modulators, screen-modes and all that stuff.



Pixels, sprites, animation, pictures. In one small word: graphics.



Spreadsheets, databases, organisers, accounts ...



Everything you need answering about the internet



Not everything fits into a pigeonhole, but anything you like fits in here.



Got a problem with your Amiga that you just can't solve? Don't worry we're here to help. Send in all your Amiga-related problems to Q&A, CU Amiga Magazine, 30-32 Farringdon Lane, London EC1R 3AU.



Yes, the young man at the back with the brown cords and the kipper tie. What was your question?



Oh, I see we're recycling those old Question Time 'funny' intros again where we pretend to be Robin Day or David Dimbleby.

DIY PSU



I recently installed a Viper II-33mhz card with 4Mb of RAM in my A1200. It already had a 60Mb hard drive in

it and I am finding it crashes in an assortment of manners. The most popular is the sudden inexplicable Guru, closely followed by the blank screen after a soft reset. I tend to suspect this is due to an inadequate power supply but I was told by both Power Computing and Datel Direct that both the Goliath and the Mikronik power supplies are no longer produced.

If you agree with my diagnosis please describe how to build a super-supply. After all, I can't be the only person with this problem.

David Dolliver, Pershire

You're certainly not the only one. It seems every second letter we get is on this subject, and as you say, with nobody selling replacements you're stuck. To this end we'll be showing you how to make your own beefed up power supply using a standard PC unit. Keep it here for full details.

Oh dear



For two years now I have been a fond user of my Amiga 500. Being slightly restricted in memory I decided to

take a step in the upgrade direction, so I went to my local second hand electrical shop to see what was on offer. The salesman was very helpful. He told me he had an Amiga that was just like a PC. I got very excited when he said he would swap my A500 for his

Amiga PC if I gave him £50. I am currently unemployed so £50 was like £500 but I thought it was worth it.

When I got my Amiga home I quickly set it up. I read the back of the machine and I realised the voltage was 110 volts. I was gutted, but glad I didn't switch it on. I then phoned the shop and the salesman said that they do not do refunds. I felt like crying. I then started looking around for a transformer and was shocked to find out that Tandy's was the cheapest at £49. It took me months to save the money but I did and got the power supply plugged in.

Now I am faced with yet another problem: Please Run Kickstart. I have phoned several companies but they seem to just want to sell me another computer. I asked them what sort of computer I had but they couldn't tell me. You are my last hope. Please do not tell me it is going to cost another £50.

PS. On the underside of the lid are a large number of signatures (see enclosed 'brass rubbing' type reproduction).

Peter Skeoch, London

Do you want the good news or the bad news first? OK, let's get the bad news over with: you've got an Amiga 1000, a rather useless machine in these times. The good news: it's quite a museum piece!

The Please Run Kickstart prompt is the computer asking for its basic operating system to be loaded from disk, the very early version of what all the other Amigas have permanently on ROM chips. It's going to cost more than £50 to get this to do much of any use. If you are determined to get this machine up and

running, the first thing you'll need is the Kickstart disk. No-one is officially supplying them now. Your best bet is to try a few PD distributors who may be able to sort you out for a few quid. You'll also need Workbench 1.2 while you're at it, this is the part of the operating system that sits on top of the Kickstart.

Once you've got that, you can see how much RAM you have. It may only have 256K. So then you'll need some extra memory, and that's just the start of it. Frankly you're probably better off trying to sell it to a particularly enthusiastic Amiga user group, or maybe the science museum. It's worth a try!

Vocal sampling



I have an Amiga running OctaMED SoundStudio and am wondering how I could record/sample vocals avoiding

background hiss. Is Delfina capable of doing this and is an amplifier necessary or can a microphone be directly connected to it? Please report on various techniques.

K Ekqvist, Finland

We presume you have already tried sampling vocals from a microphone straight into SoundStudio, but you are getting hiss on your samples. You don't say exactly how you have done this though. Let's assume you have sampled to an 8 bit cartridge from a hi-fi with a microphone connected to the hi-fi's microphone input. In this case the hiss is probably being produced by the hi-fi, so the best way is to sample direct to the Amiga from the microphone.

Yes, Delfina is capable of doing this. In fact it is very well suited to

this, because you can also add reverb, echo and chorus effects to the sample as it is recorded. Although at present you cannot sample straight into SoundStudio with the Delfina card, you can use Delfina to make a sample file which can then be loaded into SoundStudio. Things to bear in mind when recording this way are feedback (keep the volume of your speakers low or off) and the quality of the microphone. Cheap microphones can sound very bad. Most of the better ones have balanced XLR connections however, while Delfina has a jack socket for its microphone input, so you will need to find a compromise there.

Missing RAM



I have just upgraded to an 8Mb RAM board with FPU and followed the usual advice about earthing myself to some convenient point. I then put everything back in place and checked to see if the configuration showed any extra RAM, but nothing appears.

Does the Amiga know that I have put in the extra RAM, or does it need to be told? I have an A1200 with external floppy drive, a standard power source, Microvitec monitor, Panasonic printer and a 280Mb hard drive.

Alan Rushton, Tenerife

It sounds like the board is faulty or not installed correctly. The installation is a purely physical matter, there's no software required, so check that the connections on the Amiga and the card are clean and making contact. Expansions in the trapdoor should autoconfigure, so no, you don't have to tell the machine it's there.

Convert me



I was recently challenged by a PC owner to convert a multi-scrolling platform game from the PC to the Amiga. After taking a look at the game I decided that it was possible. Since he wrote the game in C it was easy enough to port it across but a lot of work was needed to get it working on the Amiga, especially with the scrolling and graphics code and to get it to fit into 2Mb instead of 8Mb. Once I got the scroll and player routines working with test graphics I started porting the games graphics and sound. This is where the problems begin.

1. Do you know of an easy to use program (preferably PD) which can convert pictures to and from PC? I know Image FX and Art Department can do this but I can't get hold of them.
2. Is it possible to transfer rendered objects from the PC to use with Imagine or Lightwave?
3. Also a program is needed to convert PC VOC and WAV samples to the Amiga's IFF format.
4. Is it possible to convert music modules from the PC to a Protracker or MED format? I have no idea of the formats there are on the PC so I would also like some info on that too.
5. Do you know of any good sprite editor programs?
6. I am also looking for a good assembler and disassembler which doesn't cost a fortune. A PD one would do for now until I can afford Devpac 3.
7. What is the best book to get for a beginner at 68K assembly?

PS. Please run a tutorial on C and assembly programming.

'TC', Ireland

Can we call you Top Cat? OK, let's take a look at those questions in order:

1. There are plenty of image file format conversion tools available from the Aminet and good PD houses. GFXCon is a good one.
 2. You don't actually want to transfer rendered objects, but un-rendered objects. Yes, it is possible. Imagine objects will work with PC and Amiga versions of the program, and the same is true of Lightwave and Real 3D.
 3. AmiSOX is a good one for this, available from the Aminet and good PD suppliers.
 4. If the mods you have from the PC are multichannel things, XM format for example, you'll have a hard time of it. As you seem to have realised, you'll need to have a nice four channel Protracker or OctaMED module in order to keep the size and CPU load to a minimum. If the originals are straight mods (ie Soundtracker/Protracker format) then you should be able to play them directly with 'off the shelf' Amiga mod-playing code.
 5. Off hand, no. Sorry.
 6. Bar Fly will do the trick and is available from the Aminet.
 7. Try Bruce Smith Books on 01923 894 355. By the way, it may be worth investing your time in C rather than 680x0 assembly, as the 680x0 CPU family is no longer being progressed. The next generation of Amigas will not be 680x0 based.
- PS. We will be starting up a new

programming series very soon, aimed at the more advanced coder.

HD or RAM?



I have an A1200 with a second floppy drive and a 24 pin colour printer. I intend buying your CD editions and therefore need to add a CD-ROM to my A1200 (which has a second floppy drive and a 24 pin Panasonic printer). Can you tell me which extras would be best to purchase at the same time as the CD, a hard drive or an accelerator with extra RAM? Bear in mind that I will be buying the other item later on.

S Chesterman, Cheshire

We'd advise you get a hard drive. A CD-ROM drive will be pretty useless without one. The accelerator and RAM upgrade will complete the set-up and give you a very good system.

Over the hill?



I've been thinking of upgrading my A300 for a while but now I'm not sure if the machine is worth it. I consider the big box 3000 to be a great machine and don't like the thought of down-grading to the 1200 just for the AGA chipset. But as I can't afford a 4000 and don't know the importance of the AGA chipset I don't know what to do. I've listed some ideas and I'd be grateful to know just how mad you think they are.

1. If you connect the CD32 as a CD-ROM to older Amigas, can they can use the AGA capabilities of the CD32?
2. If I get a graphics card equal to the power of the AGA chipset why then can't I use AGA software, and is this the only drawback of the card over the chipset?
3. Is there any way I could buy and insert the chips?
4. Finally if the Amiga can emulate everything from the Spectrum to the PC, why can't non-AGA

Amigas emulate AGA machines?

Matthew Dowling, Hampshire

That A3000 of yours is a neat machine and you shouldn't be too hasty in getting rid of it. The AGA chipset is only necessary if you want to play games that have been written specifically for AGA, and there aren't really that many of them.

However, your A3000 is far more useful for serious applications. With a graphics board (such as the new Cybervision 3D card) you will have a very impressive machine that can run all the major applications. As for your other questions...

1. No you can't use the AGA chipset of a CD32 in this way.
2. 24 bit graphics cards offer superior displays to the best AGA can offer, but you can't run AGA-specific software on a graphics card.
3. No, there's no AGA upgrade.
4. Games that use the AGA chips read and write to specific parts of the computer which just aren't there on non-AGA machines, which is why they don't work.

Happy hardcore



I have been writing music on my Amiga for the last three years. At the moment I am writing happy hardcore/bouncy techno but I can't seem to find any good samples that would be any use to me. Can you help? Also can you tell me who sells Toccata, Maestro and Delfina sound cards and are they any use to me? I have an Amiga 600.

Barry Walker, Livingston

You'll find lots of top samples on this month's CD-ROM edition of CU Amiga. Unfortunately, none of those sound cards work with the A600. For more info on Toccata and Maestro call MacroSystem in Germany on 0049 2302 949 490. For info on Delfina call Blittersoft on 01908 261 466 or email Petsoff at zuikkis@sci.fi or petsalo@lut.fi

Send your Q&A problems to ...

You can send your technical problems [or answers - Ed] to CU Amiga by the following means:
 By letter to Q&A, CU Amiga, Priory Court, 30-32 Farringdon Lane, London, EC1R 3AU.
 Email: Q+A@cu Amiga.co.uk.
 NO SAES PLEASE We regret that we can't respond to readers' questions by post or over the phone. Please do not include a stamped addressed envelope with your letters as we simply don't have time to answer the thousands we receive. Responses are only available through the pages of this magazine.

Points of view

Answer to your prayers



■ Tony Horgan is CU Amiga Magazine's Editor.

by Tony Horgan

There I was in last month's Point's of View talking about how I thought

“Maybe this is where Viscorp can come in, if they ever actually close the Amiga-buyout deal with Escom.”

someone, somewhere, would give us a wonderful new computer that gives the PC a good slap round the face with a wet halibut, and what should happen a week later? Those nice people at phase 5 go and announce just such a fish-wielding mega-machine! As you'll see from the awesome specifications detailed in this month's news section, the A\Box could well become a new standard for audio visual workstations, from TV and movie companies to recording studios and everything in between.

It's the kind of machine that will really separate those who are serious about innovative digital creation, and those who are content just to tinker with the overgrown screen savers.

At the moment there is no single dominant platform for professional audio and visual applications. On the audio side, the Mac is popular in the USA and has a growing following in Europe, but the PC is also widely used too, with the Atari ST still digging its heels into many of the smaller studios. While they all have their own advantages, you won't find many producers and musicians who

are totally happy with any of those systems. Likewise, the many aspects of computer graphics and animation are handled by a wide variety of computers and dedicated workstations. Both sides are ripe for a new machine to come in and tie the whole thing up in one easy, flexible, powerful and cost effective system: A\Box.

If phase 5 can crack this, they'll be laughing. If that's the path they decide to follow, it's essential that at least a couple of killer applications are developed and ready in time for the hardware release. Facts and figures won't sell it but the right software will.

Anyone holding out for a decent new sub-£500 home computer could be in for a lengthy wait. Even though such a box is certainly in demand from a significant number of users, phase 5's sights will be set rather higher than this for the near future. Maybe this is where Viscorp can come in, if they ever actually close the Amiga-buyout deal with Escom. For now we should all be giving phase 5 our support and crossing our fingers that this time, it really is going to be all right! ■

Market forces



■ Lisa Collins is CU Amiga Magazine's Deputy Editor.

by Lisa Collins

If video killed the radio star, then marketing killed the Amiga gaming market.

“... companies whose supposed aim is to make money ignore an existing and dedicated market.”

Let's be honest, 1996 wasn't the greatest year for the Amiga games market. We all know that. Despite the highs such as Worms, Killing Grounds and the like, quality releases became fewer and harder to find in the shops despite the fact that there was, and still is, a huge demand for them.

So why the lack of products on high street shops when there is a ready made market out there? Opportunistic marketing, that's why. PC companies saw a gap and went for it. The general confusion surrounding who owned the Amiga and its future in 1996 left a huge gap in the home computer market. Like any business would, PC companies saw an opportunity and took it. Thanks to heavy advertising campaigns, the PC was heralded as the only machine that you could surf the Net on, multitask and play games on too, things that the Amiga had been doing for years. However, no-one except existing Amiga users knew this as it wasn't publicised (cheers Commodore, Escom, AT and VISCORP.)

Some software companies were not

immune to such advertising and they started to see the Amiga as the poor relation of games technology. It became more acceptable to be seen producing expensive, graphics heavy, often low on playability games for the PC and the myriad of consoles out there rather than the naff Amiga. Ergo, 1996 saw lots of major software companies dropping out of the Amiga games market and retail outlets (also not immune to advertising) giving Amiga products less shelf space.

OK, maybe marketing on behalf of the PC wasn't the only factor that led to the decline in the Amiga games scene but it certainly helped.

It doesn't make economic sense to me that companies whose supposed aim is to make money ignore an existing and dedicated market. The fact that there is still a huge user base of Amiga owners out there despite this past year is proof of that. The success of Worms also shows that the Amiga is still capable of producing a top selling game for all formats. Let's hope those that jumped ship realise this. ■

F A Q

Frequently Asked Questions

Programming in Assembly Language: is it good for you? We have all the answers ...

■ **Q. What is Assembly? Is it different from Machine Code?**

■ **A.** Assembler, or Assembly Language, is a Low Level Programming Language and it looks something like this:

```
move.w (a1,d0.w),d5
move.w (a0,d1.w),d6
swap d6
move.w (a1,d1.w),d6
moveq #NUMOBS-1,d7
lea vballcoords(pc),a5
```

Before an Assembly Language program can be executed by the Amiga, its need to be converted into Machine Code. ARexx, C, Pascal and BASIC must also be converted into Machine Code before they can be run. But Assembly Language is different because each instruction is converted into a single Machine Code one, whereas with BASIC or C each instruction is converted into many. To convert Assembly Language into Machine Code you need'll the program Assembler.

■ **Q. Why use Assembly instead of a language such as C?**

■ **A.** The main difference is speed: a program written in Assembly Language will be very fast. Assembly Language programs are also more compact than their High Level cousins. On the Amiga, one big advantage of using Assembly Language is that it is easy to interface with the custom graphics and sound chips. For this reason, practically all games are written in Assembler.

■ **Q. What's the difference between Assembler and C or BASIC?**

■ **A.** The main difference is that Assembler is linked with the computer's processor. So, you don't use as many variables because you need to store data. Instead you use special registers which are built into the processor's hardware. As you don't have functions and GOSUBs you must jump to different memory locations instead to run the program which is stored in memory.

■ **Q. Since the machine code is so dependent on the processor, do different processors need varying Assemblers?**

■ **A.** No, because the 680x0 family is designed to be downwardly compatible. So a program written for a 68000 will work perfectly on a 68040. However, the newer processors have extra instructions, so a program written for a 68040 may not run on a 68000.

■ **Q. Why do I need to program in Assembler?**

■ **A.** If you are writing software which needs to run quickly, such as fast action arcade games, then Assembler could be your only choice. This is also true for demo programs which make use of fancy graphics techniques. It's not always necessary to write an entire program in Assembly Language though: in many languages you can include functions written in Assembler as an integral part of

the program. This means you can use as a language such as Blitz Basic or C to create the majority of the program and only include Assembler for the speed-critical parts.

■ **Q. Is it difficult to program in Assembler?**

■ **A.** It can be. On one hand you have the advantage that there are only a very small number of possible instructions and they all do very basic things. On the other hand, you need to be competent with computer hardware terms to understand what you are doing. Also, programming the Amiga in Assembly Language can be risky: if you leave out a line in an ARexx program the computer will tell you. Leave out a line in an Assembly Language program and the computer will crash.

The power of Assembly Language is also offset by the hard work needed to achieve seemingly simple things: even something apparently easy as printing a number on-screen. A C programmer can rely on the "printf()" function, but the Assembly Language programmer needs to take the contents of a register and decide what numbers to display. When you have to work at this level, writing a program such as a Word Processor is clearly a lot of work.

Of course, it's still possible to assess the Amiga's Operating System through Library calls, which means that if you are prepared to make use of the OS you can quickly create programs which utilise the familiar Windows/Icon/Mouse/Pointer interface.

■ **Q. What software do I need to program with it?**

■ **A.** You need an Assembler to convert the Assembly Language

instructions into Machine Code. You will also need a fast and reliable text editor to enter all the code and a program called a 'Linker' which deals with making sure the Machine Code is in a suitable form to run on the Amiga.

You'll also need some good reference material: for example, if you want to use the Amiga's hardware you'll need the official Hardware Reference Manual. Likewise, if you want to make use of the OS you'll need the ROM Kernel Manuals. If you can't find these for sale, keep a look out for second-hand copies. You could make a point of getting hold of the special Amiga Developer CD-ROM as well.

■ **Q. What software should I buy?**

■ **A.** The definitive Amiga Devpac from HiSoft, which includes all the tools you need plus an excellent manual. Alternatively, if you have another programming language already, there may be an Assembler built in: Blitz Basic for example can include Assembly Language, as can many C compilers.

If you prefer the Public Domain to commercial packages, look out for the superb PhxAss package which is available on Aminet. This includes an Assembler and Linker and has plenty of source code for you to experiment with.

■ **Q. Where can I get more help on Assembler?**

■ **A.** There are lots of good books available but you'll get most help on the Net. There are newsgroups full of Assembly Language programs and megabytes of source code for you to learn from. ■
John Kennedy



Backchat

Yes the rumours are true. There is a new Amiga and Barclays bank is giving us a huge plug. It's all jolly stuff in this month's readers' collective.

We're in the money

The Amiga is still a very viable business option and Barclays Bank think so too. How do I know this? Well, having recently decided to venture into the world of video production, I arranged a meeting with The Business Banker at my local Barclays Bank. After a brief chat I left armed with all the relevant information sheets that I needed. To my surprise and delight when I was reading through the video production company sheet, I came across a section entitled 'start up costs' which actually recommended the Amiga.

This leaflet described the equipment required for video production and after explaining a video editing suite set up, went on to say that one would need to "buy a computer costing approx £900. A recommended graphics computer is by Amega (their spelling not mine) because it allows for quality graphics to be created." It also mentioned genlocks and went on to say "once the computer is purchased it will be necessary to obtain various types of professional video software. One basic graphics programme is DPaint 4 and a good titling programme is by Scala called MM300."

Now despite the incorrect spelling of our favourite machine (which I shall be correcting them on when I return for my second meeting) it was very refreshing to learn that a business as large as Barclays recognises the Amiga as a quality graphics platform. This message may well get across to millions of other people through these fact sheets. When one considers the presence of Barclays Bank across the country, as well as a recommendation from a Bank (which still commands a certain amount of respect even in this day and age), perhaps the message will get to the people who would more than likely be duped by PC salesman. I hope that this message cheers you up, especially after all the letters you receive from the whingers and moaners.

Pete Casson, Bristol.

A new Amiga!

I heard a rumour that at long last we are going to see a new Amiga. And that it's going to knock the socks off the PC. Is this true? Please

tell me that it is. This is what we've all been waiting for.

Jeremy Colvin, Oxford.

Yes, it is. CU Amiga Magazine are delighted to be the first people to tell you about the A/Box. Turn to the news pages now to find out all about this new machine.

Any bright ideas?

In the August issue you were asking what future we saw for our beloved machine. I've come up with an answer which is definitely not the industry way but it's still worthy of consideration in the way we want the Amiga to develop.

The Amiga is based on the Motorola 680x0 series and recently the 68060 has become available on the Amiga. The 060 is scarcely state of the art though and the 060's 2.4 million transistors barely scratches the surface of 125 million so how about putting the Amiga custom chips onto the same chip? This means that we could upgrade the sound to 16 bits and the number of channels to 32.

We could go one step further and put eight complete 060 systems onto a single chip and link them together to enable task transferring. Thus any 060 that's busy can pass tasks to one that is idle or less busy. So you could have multitasking and task sharing computers.

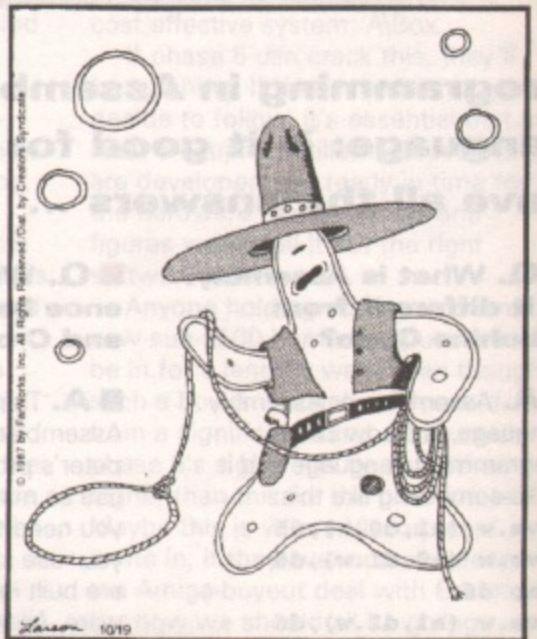
What's more it should be possible to get enough RAM onto the same chip to let each processor have 16Mb to have even more speed. Graphics and video handling would be much faster also as well as modem transfer rates. Obviously, the existing software base would also run perfectly albeit much faster. So, this new machine would be easier to use and program by Mr Average while opening the way to a whole new range of advanced multiple simultaneous programming techniques.

Anon, Northumberland.

It sounds like a nice idea, but the point of using the 680x0 CPU chips is that they are 'off the peg' components made by Motorola and simply bolted onto the motherboard. Fixing a number of these together wouldn't really be possible and if you tried to put a

THE FAR SIDE

By GARY LARSON



"So, until next week — adios, amoebas."

few of them on the motherboard for a kind of parallel processing system the cost would almost certainly be prohibitive. Phase 5 seem to have the right idea (as reported in this issue's news section) with their combination of a PowerPC CPU and a set of super-fast custom chips, all joined together with amazingly fast data busses.

Hey big spender

I was first introduced to the Amiga in 1992 at the age of 57 when my daughter bought an A600. This year I decided to make some changes. I moved over to your magazine from another Amiga journal to I discover what I should have had from the outset. CU Amiga Magazine is full of informative features, absorbing Q&A and I can never get enough of the Backchat pages. In my opinion your magazine has the potential to keep the Amiga on its feet. (Ah shucks -Ed)

My other move was trading in my daughter's A600 for an A1200 with 170Mb hard drive. I then upgraded again to 6Mbs with an Apollo 68020/25MHZ accelerator and two external drives. However, a younger man might not have invested this money like I did. So, I would like to tell the author of the 'tight wads' letter in the November Backchat to stop bluffing. If you have the money to throw around it does not necessarily mean we all have.

Alf Goldman, Malta.

Poetry corner

We are looking for entries for our next anthology of poetry. This time the subject is communication. So if you fancy yourself as a bit of a bard, jot down a poem or two about the wonderful world of communication and send it to: Poetry Now Communication, 1-2 Wainman Road, Woodston, Peterborough PE2 7BU. All work published will receive royalties and the copyright will remain with the author. For more information contact me on: 01733 230 759.

Lucy Jeacock, Peterborough.

A bunch of users

I thought it was about time that I brought everyone's attention to the existence of user groups as they don't get seem to get any coverage anywhere lately.

I am a member of ICPUG, the most widely-known Amiga group and I am writing to let everyone know the invaluable service that groups like this provide. Weekly meetings include events such as lectures from well-known industry personalities, PD nights, and open nights when you can bring in your Amiga for any help or advice you may need.

There are lots of regional branches around

the country and if you would like any more information please contact me on tel: 01732 460387.

Peter Brightwell, Kent.

Let's get sorted

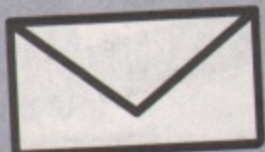
All right, I'm fed up with this! You walk into any computer shop in any town and ask where the Amiga section is and they reply: "Doh! What Amiga section?" All these people that write in and say "why don't the software houses make more Amiga games and moan about how the Amiga world is dying", should stop babbling and go and do something about it.

Your save the Amiga letter to VIScorp was an excellent idea but we need to take more action. Since you are the best Amiga magazine there is, why don't you organise an official day every month or so when every Amiga user goes out and starts pestering shops about their Amiga stocks? Just think what thousands of dedicated Amiga users complaining to stores nationwide could do to boost awareness. Let's get this thing sorted.

JA Phillips, Staffordshire.

Great idea JA. Also, look to the right here and you'll see that we're ready to get the ball rolling.

The endless march of technology (ha!)



letter of the month

Home users who, to be fair, haven't got a clue what they're buying, are being sold packages well in excess of their needs. NOBODY should need even a computer as fast as a Pentium at home, let alone a P166. Even my slow little 68020 A1200 can do virtually everything a PC can and if the networked 486sx25 PCs at college are anything to go by, can often do it faster.

Every day I open a newspaper I see companies offering increasingly powerful and high-spec PCs. Adverts for P166 computers, with 32Mb RAM, 2Gb (!) hard disks, £1-2000 of software, Windows '95, built in V34 28.8K fax modems, colour inkjet, Diamond Stealth 64-bit graphics card, and 15" monitor are becoming the norm. Although the fact that such bundles are priced at around the same as most places charge for a 16Mb P100 means they are great value, are they really allowed to say things like "don't consider anything less powerful than a P133" or "don't buy a modem slower than 28.8K"?

Pushing ever faster machines into the home market inevitably leads to people being, to put it bluntly, conned into buying hardware specifications which are well above what they need. For example, how many users do, for instance, memory and processor intensive work regularly such as 3D graphics rendering or multitasking more than a couple of programs at a time? Less than 5% would be my guess - probably less. And yet despite this, what is the standard home user spec? A minimum of P90 with 16Mb RAM and a 24-bit graphics card fitted with 2Mb VRAM, along with an SVGA 14" monitor. Out of all of that, the monitor is the only thing that is really justified. Amigas, to me, are easier to use, often faster than any Windows application, and far, far cheaper.

This isn't just the view of a die hard Amiga fanatic, somebody in my computing class programs on PCs and says he prefers Amigas for their ease of use and general nippiness. People are bound to argue with me but I don't care. My computer is about five years old and can still run almost every new application pretty well. With the 68030 and 4Mb expansion I'm saving for, it will run all of them more or less to their full potential.

James Pullen, Fleet, Hants.

Sure, there is a need for cheap (sub £1000) home computers but without this kind of progress we would still be using Spectrums. It's a fair point though. Should everyone be forced to spend at least a grand if all they want is a humble machine that does a bit of word processing now and again?



Shoppers corner

'I got it here'

The feature that we did back in May 1996 about where you could get Amiga products is still arousing interest. Last month, we asked readers to send in details of where they got Amiga products and where they received great service. Here are some of the entries we've received so far:

- Crewe** High Street Micros
- Doncaster** The Computer Store
- Leicestershire** Microgenesis
- London** HMV (Oxford Street), Multimedia Discount Shop (Woodgreen), Tandy (Woodgreen), WHSmith (Woodgreen)
- Liverpool** Game
- Luton** Beatties, Electronic Boutique, Tandy, Silica (Debenhams)
- Manchester** Boots (Arndale Shopping Centre), WHSmith (Arndale Shopping Centre), HMV, Game
- Meadowhall** Game, Virtual Reality
- Middlesborough** Chips Computers
- Northampton** Direct Software
- Pontrefract** Microtron
- Sheffield** Game
- Southport** Screen Arts (Eastbank Street)
- Torquay** Multimedia

Thanks to Andrew Clarke, Leicestershire, Thomas Scholes, Southport, David Green, Yorkshire, Susan Connolly, Bolton, Seamus White, London, Vincent Peele, Northampton and Alan Bunker for this little lot.

Over the coming months we are aiming to provide an even more detailed service. To help us do this, please fill in the following form and send it to: 'I got it here' CU Amiga Magazine, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.

Name of Shop

Shop's address

Tel

Type of products on sale

Quantity of goods available:

Very Little Average Mountains

Quality of service:

Poor Good Excellent

Your name

Address

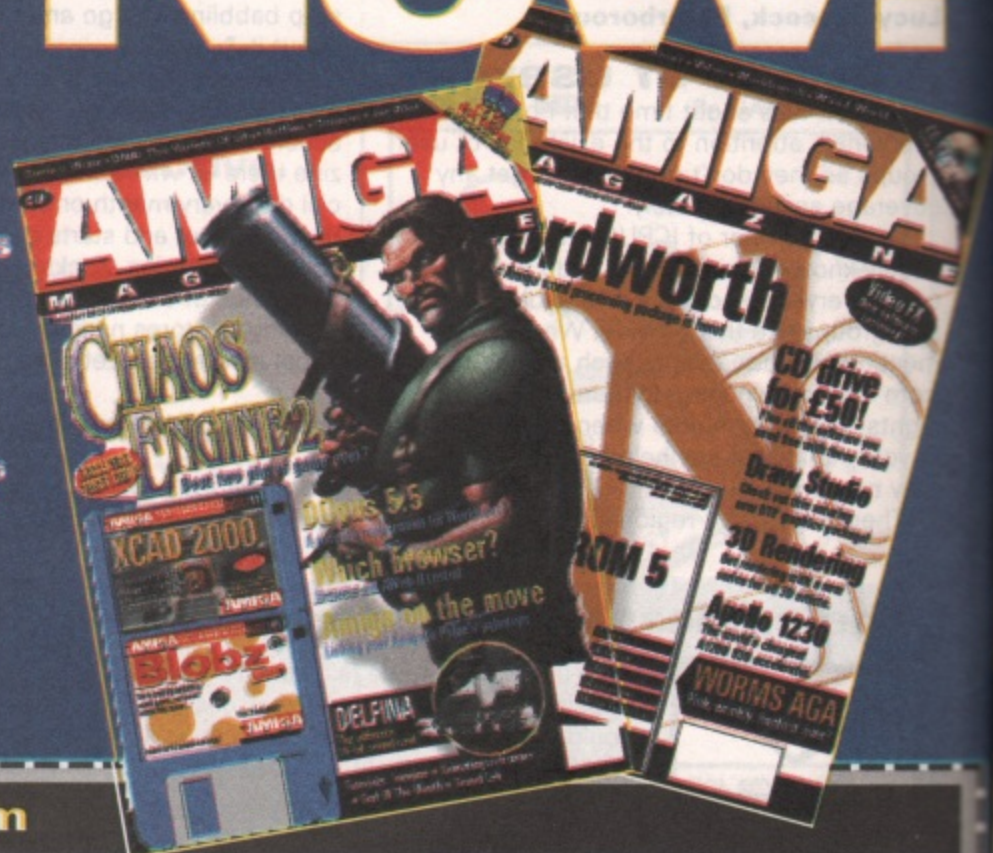
Thank you for taking the time out to fill in this form. Help keep the Amiga alive.

Subscribe Now!

CU Amiga Magazine is the most authoritative source of information about your Amiga. Whether it be graphics, programming, music, business, games or accessing the internet you're interested in then this magazine can tell you all about it. It remains the complete Amiga solution.

Why CU Amiga Magazine?

- Innovative, exciting cover disks or CD-ROMs every month - featuring productivity and games
- The most informative features available - on all Amiga relevant subjects
- Opinions from reviewers you can trust
- The best tutorials in the business
- The magazine most committed to supporting the Amiga



Subscription Priority Order Form

Ordering by phone

The easiest way to take out a subscription to CU Amiga Magazine is to order it by phone. All you have to do is call **01858 435 350** from 9am to 5.30pm, quote the type of subscription you want (eg: UK 12 months, UK six months, Rest Of World 12 months), the following subscription code: 0011 (CD) IA2J (disk) and the relevant offer code: **6 months 01I (CD) A2D (disk), 12 month 01J (CD) A2E (disk)**. Then, once your name and address has been taken and payment has been arranged, a subscription copy with top class floppy disks or the best CD-ROM available (you can order either) will wing its way to you as soon as the next one is printed.

Ordering by post:

Try this out for size!!

A. 6 month subscription

Please tick which one of the following subscriptions you want:
 United Kingdom and NI: Disk version **£27** CD Version **£36**
 Europe and Eire air mail: Disk version **£35** CD Version **£43.50**
 Rest of World Air Mail: Disk version **£45** CD Version **£53.50**

B. 12 month subscription

Please tick which one of the following subscriptions you want:
 United Kingdom and NI: Disk version **£54** CD Version **£72**
 Europe and Eire air mail: Disk version **£70** CD Version **£87**
 Rest of World Air Mail: Disk version **£90** CD Version **£107**

C. Your details

Title (Mr/Mrs/Ms) _____ First Name _____
 Surname _____
 Address _____

 _____ Postcode _____
 Country (where applicable) _____

D. How are you paying?

By cheque money order Total £ _____
 By Visa Access American Express Mastercard
 Credit card number
 Card expiry date Date _____
 Signature _____
 Source Codes: 0011 (CD) IA2J (disk) Offer codes: 6 month 01I (CD) A2D (disk) 12 month 01J (CD) A2E (disk)

CU

AMIGA

M A G A Z I N E

Next Month ...



Design WORKS

The wonderful Design Works will be headlining our February 1997 cover disks and CD. You can also expect an exclusive behind the scenes look at the stunning new machine from phase 5, complete with all the info you need to know. Look out too for a wheelbarrow full of hot new products released at the recent Amiga show in Cologne.

February 1997 ... out January 15th

PLUS:
Exclusive Worms AGA
Upgrade FREE on
CD-ROM!!

wo

Back Issues

Keep your collection of CU Amiga Magazines up to date with a little help from us.

November 1995



ON THE DISKS: AudioMaster IV full program, Virtual Karting demo, CD-ROM edition-Aminet 7 and more.
FEATURES: CD-ROM definitive guide to drives and disks.
INSIDE: Cinema 4D, Mac™ Emulation, Final Writer 4, Pinball Mania.

December 1995



ON THE DISKS: Worms demo, Amiga E full program plus free Amiga E manual.
FEATURES: Programming, Amiga music.
INSIDE: Leading Lap, Worms, Flight of the Amazon Queen, Coala, FinalCalc and Amiga M1438S Monitor.

January 1996



ON THE DISKS: Imagine 3.0 full program, Zeewolf 2 & Algomusic.
FEATURES: 3D rendering using our cover disk.
INSIDE: MiconiK Tower, World Construction Set, Amilink, Zeewolf 2, SWOS 95/96, Super Tennis Champions and much more.

February 1996



ON THE DISKS: TextureStudio plus Imagine objects, DVerb, Mandel 92, Bluff Titlex, Amiga E source code, Xtreme Racing.
FEATURES: Serial linking, portable Amiga prototypes and the first Net Wedding.
INSIDE: DiskMagic, HiSoft CD-ROM, Virtual i glasses.

March 1996



ON THE DISKS: VideoStage Pro, Imgaug & XFD, Gloom Deluxe and 10 Worms levels.
FEATURES: VideoStage and The future of Games.
INSIDE: OGO for A1200, Wordworth 5, Blitz Basic, Super Street Fighter II Turbo, Super Skidmarks data disk.

April 1996



ON THE DISKS: AmiFileSafe, Leading Lap SE - 5 level full game. CD-ROM edition available.
FEATURES: Virus Protection and Wallace & Gromit in the right computer.
INSIDE: SX 32, HiQ Station, The Chaos engine previewed, Zeewolf 2 tips, and more...

May 1996



ON THE DISKS: Soundtracker Pro II, MIDI Sequencer demo, Alien Breed 3D2 demo.
FEATURES: Free Amiga music book, the new Walker, Amiga Surfer pack, and the quest for Amigas.
INSIDE: LightWave 4, Slamtilt Pinball, Tracksuit Manager 2 reviewed.

June 1996



ON THE DISKS: Termite demo, Kiling Grounds demo. Plus free 96 page net and comms guide.
FEATURES: Escom sells Amiga Technologies, publish your music.
INSIDE: Modern round-up, Total Football and new TimeKeepers disk reviewed.

July 1996



ON THE DISKS: XPaint (full program) and Primal Rage demo.
FEATURES: Special report on what's happening in Europe and the latest on Visorp and PIOS.
INSIDE: Image FX 2.6, Surf Squirrel, A4000 Tower, Primal Rage, SWOS Euro and more reviewed.

August 1996



ON THE DISKS: EasyCalc (full program) and Valhalla III demo.
FEATURES: The future of the Amiga with ViScorp, the new PIOS machine and the second part of the Euroscene feature.
INSIDE: Siamese Twin, Photogenics 2.0, Valhalla III and Tin Toy reviewed.

September 1996



ON THE DISKS: Vista Lite (full program) and a demo of Brian Lara Cricket '96. CD-ROM edition too.
FEATURES: The Aminet exposed. All 6 gigabytes!
INSIDE: Final Writer 5, OctaMED SoundStudio, Atapi CD-ROM drive. Plus an exclusive preview of the new AGA Worms.

October 1996



ON THE DISKS: Upper Disk Tools: ideal for sorting out those awkward disks and drives!
FEATURES: The Amiga in America, Net software...
INSIDE: The speed issue, something, Three top accelerators, a TCP/IP stack comparison and Capital Punishment.

November 1996



ON THE DISKS: XCAD 2000 - The premier 3D CAD package, plus Chaos Engine 2. Choose CD-ROM or floppy edition.
FEATURES: Palmtop Amiga-Psion link-up.
INSIDE: Opus 5.5, Delfina DSP sound card, Web Browser War, Alfa Quatro, CD-ROM writer and more.

December 1996



ON THE DISKS: Wordworth 3.1 SE, Worms - The Directors Cut demo. CD-ROM or floppy edition.
FEATURES: CD-ROM drive for £50! Amiga and PC games on CD-ROM.
INSIDE: Draw Studio, Apollo 1230, Storm C, Siamese RTG system, Teen Agent, Tiny Troops and more.

Priority Order form

Issue date & type (CD or disk)	Quantity	Price
Total price		

Method of payment

Visa Amex Access Diners Club card Cheque (£ Sterling)

Card no..... Expiry date.....

Signature..... Date.....

Please make cheques payable to EMAP Images Ltd.

Title..... Initials..... Surname.....

Address.....

..... Postcode.....

Daytime telephone number.....

Complete this form and send it with your payment to: CU Amiga Magazine Back Issues, Tower Publishing, Tower House, Sovereign Park, Lathill St, Market Harborough, Leics LE16 1EF. Tel: 01858 435 350.

*Rates: UK: £5.99 Europe and rest of world: £6.50. Except for CD-ROM editions: UK £6.99 Europe and rest of world: £7.50. All prices include postage and packing. Disks/CDs are included with all orders. CD edition is available for the April 1996 issue, and monthly starting from the November 1996 issue.

Please allow 28 days for fulfillment upon receipt of request. All orders subject to availability.

net CONNECT

Want to get 'net connected?



It's HERE! Zoom release 2 - now ready and in stock for delivery (at last!). Zoom 2 contains all that's new and great from May 1995 to June 1995. All the best PD/shareware will be found on this CD. We included all the best from our library, submissions, the Aminet, BBS's and other contacts. The difference between this and Zoom 1? Zoom 2 is 99% ready-to-run, set in an excellent Magic WB environment and much more accessible than its predecessor. There is so much on Zoom 2 - utilities, tools, productivity, educational programs, business, games, Magic WB stuff, slideshows, documents and much more. There is also an exclusive 'Get Started' demo on the CD for AGA machines. If you want the very latest PD from every conceivable source - Zoom 2 is for you! Zoom release 1 was one the most popular CD's from Summer 1995. Zoom release 2 will be hotter! Get yours before stocks run low!

BARGAIN!

£9.99

- Greatest & latest PD from May 1995 - June 1996 : Utils, games, slideshows, education, disk mags and more!
- including most of this advert and loads of great PD software
- NEW! Get Started Demo (AGA Machines)
- NEW! All the Professional Sound Samples [50 Disks]
- NEW! Over 25MB+ of read-to-view/use Magic WB icons etc
- NEW! Special 'programming' themed area

ZOOM RELEASE 2

Scene Storm is a glorious feast of tempting eye candy produced by the legendary SPACEBALLS. Amazing graphic and audio delights to show your friends what the Amiga can really do! This CD is packed with every major scene production from 1995, including all the releases from The Party 5 held in Xmas 95. Exclusive Digital Candy material is also included, ranging from music competition entries to a complete Development suite. Scene Storm features an easy to use Magic Workbench interface that is simple to set up and a joy to use. Much of the contents of Scene Storm are presented as ready-to-run files through custom designed icons. No more trawling through archives and filling your hard disk with files. Includes: Productions from over 20 Scene Parties held throughout the world in 1995. All the best demos and intros from the last year, slideshows, music disks, the most popular disk mags and charts. Exclusive modules taken from the coolest demos as well as entries from Digital Candy BBS Music Competitions. A complete development suite that will allow you to learn how to code your own demos. Development utils are included along with exclusive and easy to follow source code. All purchasers of Scene Storm that own a modem can register to qualify for 3 months free downloading of the latest scene files from Digital Candy Bulletin Board. This would normally cost £15. This BBS is classed as the 'scene' board in the UK! Place your order now as this will be the hottest selling CD throughout Europe!



BARGAIN!

£9.99

- Amiga Format - 90% - (Gold Award)
- CU Amiga fans - 91% - "This is a must for all demo fans"

SPACEBALLS SCENE STORM



Sick of the run-of-the-mill old PD CD releases containing collections from pre-1995? This CD contains the complete collection of F1 Licenceware titles from F1-001 to F1-100. Over 100 titles or more than 200 disks! This CD is worth well over £500, if the disks were bought separately. There is something for everyone on the CD - games, utilities, tools, professional clipart and music, beginners guides, educational programs and much more. Some superb material is contained within this CD-Rom: Blackboard v3 (image manipulation), Ultimate Quiz 2 (general quiz), Word Plus Pro (originally valued at £15!), Fortress (strategy God game), Relics of Deidroneye (voted best PD game ever by Amiga Format), ERIC (voted second best PD game ever), Powerbase (database program), GRAC (superb 'Monkey Island' style adventure game creator with 000's of copies sold on floppy), Introduction to WB (best selling F1 Title), Absolute Beginners Guide to AMOS, Junior Artist (kids paint package) or Tots Time (one of many kids educational programs). Use some of the professional music within your games, with no extra charges. What about the clipart for your DTP documents? AMOS programmers have a field day with this CD - AMOSzine, guide to AMOS and AMOS supplements. Something for everyone. With a very easy to use AmigaGuide© interface with 80% of the programs running straight from the CD. Remember that the programs are commercial, with copyright owned by F1 Licenceware. All programmers receive a royalty for every CD sold.

BARGAIN!

£9.99

F1 LICENCEWARE CD VOL 1

Send your order to:
Active Software, PO Box 151,
Darlington, County Durham,
DL3 8YT, ENGLAND.

01325 352260

active@enterprise.net



Postage and Delivery

CD's	- 50p per CD for UK delivery
	- £1 per CD for EU delivery
	- £1.50 per CD ROW delivery
Modem	- £4 for 2-3 day delivery
	- £6 for next day delivery
	- £20 for Saturday delivery

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

We stock many other compact discs. If you do not see what you want listed call us for possible availability. New CD's arriving daily!

Remember we will match and try to beat any compact disc price listed within this magazine. Call for details! CD must be in stock.



- **AMITCP v4.5 DIALUP** NEW
[NEW!! FULL TCP CLIENT]
- **VOYAGER v1.1** NEW
[EXCLUSIVE!! NEW WWW CLIENT]
- **POWER MAIL** NEW
[SUPERB NEW MAIL CLIENT]
- **AmFTP**
[THE INDUSTRY STANDARD FTP CLIENT]
- **AmIRC**
[THE INDUSTRY STANDARD IRC CLIENT]
- **mNEWS v1** NEW
[NEWS CLIENT]
- **AmTelnet** NEW
[TELNET CLIENT - BY AMFTP AUTHOR!]
- **mFinger** NEW
[FINGER CLIENT]
- **MUI 3.6 (Shareware)** NEW
TRACEROUTE & PING
- & CD 'extras' (call for info)

EASIER THAN ABC!

Wanting to get onto the Internet? Already connected, but frustrated with your software? NetConnect is all you need to get connected to the Internet. Containing a suite of **commercially licenced** software you won't find an interface as easy-to-use as NetConnect's! We have spoken at length to so many of our customers about getting onto the Internet - we know exactly what you need and what you want. You want software you can USE - not shareware but commercial software, you want the hassle taken out of the installation and you want a suite of the very **best** Amiga Internet software. Indeed, to make NetConnect the very best we organised programmers to enhance their software - so you get previously non-released software. NetConnect contains a full TCP client worth over £35 in itself! You can save masses of £££'s from buying NetConnect as there is no need to licence the Internet software - full versions all licenced for you!

NetConnect's GUI does more than control/manage AmITCP! It also gives you a completely editable icon bar (see pics) to control and manage your programs. No other Internet pack meets the specifications of NetConnect! Ask for a demo version!

Modem Offer & Specifications



- 33600 bps DATA/FAX modem - true v34
- Group 1, 2 & 3 send/receive FAX
- Enhanced ADPCM coding
- Auto mode detection allows modem to connect with a modem that is configured for differing connection modes
- Extended AT command set
- Upgradable ROM chip
- BT and CE Approved
- Amiga serial cable included
- Full "get started" documentation
- 5 year warranty - also undergone rigorous Amiga tests

Save over £23 with Enterprise!

Buy NetConnect and get FREE connection to Enterprise (worth £20 ex. VAT or £23.80 inc. VAT). Contact us for more information.

NetConnect Software 3.5inch Disks	£54.95
NetConnect Software CD version	£54.95
33.6 Modem	£129.95
33.6 Modem & NetConnect [CD or Disks]	£159.95
28.8 Modem	£124.95
28.8 Modem & NetConnect [CD or Disks]	£154.95

[33.6 Modem + NetConnect for under £160! Amazing!]
All prices include VAT. See box opposite for delivery charges

AMITCP CONTROL GUI
Supported by ISP's Worldwide
NetConnect allows you to select your country then select an ISP (easy!) - we have about 160 ISP's listed from over 30 different countries (50 from the UK). Nearly 100% of the WORLD is covered for any user who wants to buy NetConnect! No problem!

active SOFTWARE

Sensible


WORLD OF SOCCER '96/'97

Available now from your local games store:

Latest version of

 **Sensible World of Soccer on Amiga. RRP £24.99**

AND

 **Up-Grade discs for existing
Sensible World of Soccer owners. RRP £9.99**

Sensible
SOFTWARE



© 1996 Sensible Ltd. © 1996 Renegade Software, a Warner Interactive Company,
under exclusive licence from Sensible Ltd. A Time Warner Company.



**WARNER
INTERACTIVE**