Issue 88 ■ JULY ■ 1995 ■ £3.99 Overseas price £4.25 Hfl 18.95

AMIGA COMPUTING

Simply the best collection of registered shareware and essential add-ons ever!

July 1995 AMIGA COMPUTING

This disk requires WB2.04, 1Mb RAM and a hard drive

MUI 2.3 EXCLUSIVE

A fully-registered version of the most popular shareware release in Amiga history . . .

Plus: Eight amazing MUI add-ons!

July 1995 AMIGA COMPUTING

This disk requires WB2.04 or higher

Utility Heaven

Amiga Computing's ultimate shareware collection, along with the pick of our all-time favourites incuding:

- NewAlertHook • Arq
- AssignWedge • CacheFont
- CycleToMenu • MagicMenu
- MultiCX • Virus Checker v6.53
- News Agent • SwazInfo
- Title Clock • Multiple Datatypes

Bought out!

Escom reveal their plans for the future of the Amiga

PLUS

- VLab revisited
- Safe surfin'
- Directory Opus
- TVPaint 3.0
- Tune Builder
- Digita Organiser
- Back-up special
- CrossDos
- DIY games
- Productivity CDs

IDG MEDIA

INDI DIRECT

ORDER ANY INDI ADVERTISED PRODUCT OVER £100, USE IT FOR 6 MONTHS BEFORE YOU PAY A PENNY

Option 1
BUY TODAY FROM INDI. PAY BY CHEQUE OR CREDIT CARD

Option 2
BUY TODAY FROM INDI WITH NOTHING TO PAY FOR 6 MONTHS THEN CHOOSE TO PAY OVER 6 TO 36* MONTHS.

INSTANT CREDIT AVAILABLE FROM NEARLY 100 OFFICES NATIONWIDE

CREDIT CARDS

Access SWITCH VISA

EXPRESS CHEQUE CLEARANCE

Simply write your cheque guarantee card number, name and address on the back of your cheque and we will normally be able to despatch your order the day that we receive your cheque. Cheques received without a cheque guarantee card number, will normally clear within a maximum 7 working days.

01543 419999
9am - 6pm Monday to Friday

* APR 29.8% Subject to Status.

*ALL INDI PRODUCTS ARE DELIVERED FREE OF CHARGE

Roc Gen Plus - Amiga Genlock

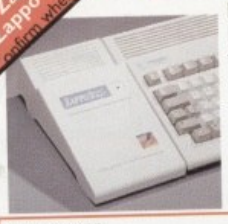
Create your own text titles and spectacular graphics. combine your favourite Video with studio enhancements such as overlay, dissolve and invert keyhole effects.

* User friendly panel design and easy installation
* Dual dissolve control knobs provide freely adjustable, varying degree of overlay or invert (keyhole) effect.
* Auto Video pass- thru allows signals to continue to flow through to your monitor even when the video or Amiga signal source is off.
* Extra video-thru port provides separate line monitoring of video signals only.
* Extra RGB pass- thru enables separate line monitoringof RGB signals for real time editing of the Amiga graphics
* Key in port for expansion with external keying device
* Compatible with all Amiga Models and commodore CDTV

£139.99

FREE Zapsac or Zappo T Shirt (Confirm when ordering)

ZAPPO Smart Storplus



Plugs into the PCMCIA Slot of the Amiga 600 &1200 and is ready to go. Excellent build quality at an amazing price.
12 Months Warranty

130Mb---	£149.99
214Mb---	£189.99
270Mb---	£204.99
540Mb---	£259.99

DRIVES HAVE COME DOWN SO INDI PASS THE ADVANTAGE ONTO YOU

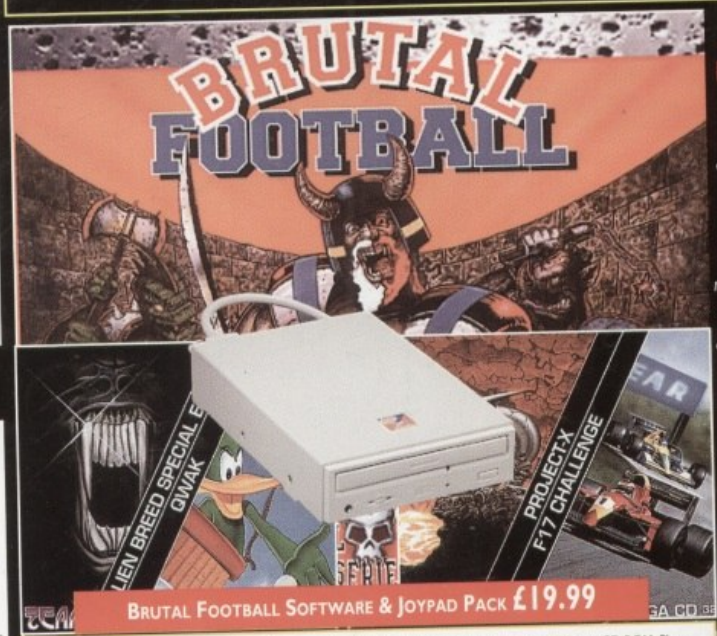
BUY NOW, NOTHING TO PAY FOR 6 MONTHS.

Subject to Status

MASSIVE CD ROM PRICE REDUCTION

£159.99

ZAPPO AMIGA 1200 CD ROM DRIVE



BRUTAL FOOTBALL SOFTWARE & JOYPAD PACK £19.99

We understand that some non standard Accelerator boards may cause problems when using the Zappo CD ROM. Please confirm compatibility at the time of order as Indi cannot accept responsibility for this problem

BRUTAL FOOTBALL PACK

* **Brutal Football** *"It is first rate ... it'll keep you in stitches for months"94%*
* **Alien Breed** *"A supreme challenge to new and old players alike" 90%*
* **Qwak** *"The most playable Amiga game ever" 92%*
* **Project - X** *"Incredible graphics, awesome speech...a true classic"92%*
* **F17 Challenge** *"fast moving graphics, excellent gameplay... a game to be reckoned with"84%*

(MIN 3MB MEMORY REQUIRED)

Plus a superb multi button joypad worth £14.99

ROMBO

VIDI AMIGA 12. The ultimate low cost colour digitiser for the Amiga. "the best value full colour digitiser on the market".- Amiga Format.**PRICE £59.99**

ROMBO VIDI AMIGA 12 (RT)
Based on the best selling Vidi Amiga 12. This all new version offers real time colour capture from any video source. Full AGA chipset support as standard for all A1200/A4000.**PRICE £132.49**

ROMBO VIDI AMIGA 24 (RT)
For the more serious user, this 24 - bit version will again capture from any video source with true photo realistic images! A staggering 16.8 million colours can be utilised with incredible results. Full AGA chipset support. **PRICE £199.99**

VGA INTERNAL TV BUSTER PRO will allow perfect, totally flicker free colour output to a normal TV or Video. * Windows and DOS support * CGA,EGA,VGA * Upto 640 x 480 res. 16 or 256 colour * RGB, Composite & SVHS output * PAL or NTSC versions available **PRICE £59.99**

MICROVITEC MONITORS

External Speakers Included

This superb monitor offers a high quality 0.28 dot pitch and low radiation total MPR-II compliance. Complete with external Stereo Speakers and includes all leads - this is the monitor that we have all been waiting for.

£279.99

SHARP MONITOR / TV

The superb Sharp 14" Monitor / TV provides a real alternative to a Commodore Monitor with full function remote control 39 channel electronic auto search tuning, digital on screen display and 1.5 watt Mpo audio output. All you need to know is the low low price. The Sharp Monitor / TV is the product for you complete with scart socket and connectivity cable and including 12 months Warranty.

£164.99

* Deliveries Insured by securicor are Free of Charge Monday to Friday. A surcharge of £10 is required on a Saturday.(Uk Mainland)

Prices may be subject to change without prior notice.

MAIL ORDER SALES HOTLINE 01543 419999

Access SWITCH VISA

All trademarks are acknowledged. E&OE APR 29.8%

BUY NOW, NOTHING TO PAY FOR 6 MONTHS.

Subject to Status

INDI DIRECT

*ALL INDI PRODUCTS ARE DELIVERED FREE OF CHARGE

PRINTER ACCESSORIES

1) **Printer Dust Cover** Dust cover for the Dot Matrix Printer	Special INDI PRICE £2.99
2) **Paper Pack** -500 sheets of quality A4 paper	INDI PRICE £12.49
3) **Continuous Paper** 2000 sheets 1 part listing paper	INDI PRICE £22.49
4) **Parallel Printer Cable** -Used for connecting Amiga to Panasonic printers	INDI PRICE£9.99
5) **Panasonic Colour Ribbon** -Colour ribbon for KX-P2135	INDI PRICE £15.49
6) **Panasonic Black Ribbon** Black ribbon for KX-P2135	INDI PRICE £9.49

ZAPPO 1200 EXTERNAL FLOPPY DRIVE

You've seen all the reviews on this popular and affordable second Amiga drive. "Compatible with all Amigas Quality 9 out of10." Exceptional value for money. **Amiga Computing**

£44.09

AMIGA 600 HARD DRIVE

30 Mb £59.99

Includes Trivial Pursuits, Myth, Rome A.D 92 Epic

This pack is only compatible if the last 3 prefix numbers of your Kickstart are 300 or higher.

Commodore 601

Trapdoor upgrade for the Amiga 600, 512K. £14.99

NEW Panasonic KX-P2135

INCLUDES WORDWORTH THE ULTIMATE WORD PROCESSING PACKAGE

A 24 Pin Quiet colour printer, designed for those who need low cost professional quality output, giving all your documents and presentations eye catching colour. The NEW KX-P2135 incorporates a 20 page built in sheetfeeder, a flat belt push tractor feed to facilitate easy loading together with a noise level of only 46.5dBa (43.5dBa in super quiet mode)

* Super Quiet Printing
* 3.5" setup disk inc. Windows 3.1 driver
* Built in sheet feeder
* 7 Colour printing
* 2 paper paths- top & rear
* 250 cps Draft Micron, 83 cps LQ
* 1 Year Warranty

£164.99

FREEPHONE 0500 404041 for your FREE Amiga Driver Disk

Please note all Panasonic Dot Matrix printers are supplied with a tractor feed - FREE of Charge. Other Companies can charge approximately £50 extra for this feature.

Canon PRINTERS

Canon BJ-200ex

The NEW BJ-200ex has print speeds of over 3ppm. It has a built in 'smoothing' function giving an effective resolution of upto 720 x 360 dpi! At the faster speeds of 204cps HQ, and 248cps HS, the BJ-200ex still maintains the whisper quiet operation of 42 dBA, and comes with a built - in 100 x A4 automatic sheetfeeder. * 1 Year Warranty

£222.08 inc vat

NEW Canon BJC-600e

Introducing the NEW Canon BJC-600e, the successor to the BJC-600. In addition to the advanced features of the BJC-600, the NEW BJC-600e has a 'smoothing function' giving an effective resolution of 720 x 360dpi for mono printing. The improved logic capabilities allow you to print colour graphics at a speed of 0.6 - 1.2 ppm.It Prints on various media, is Windows compatible and has fast print speeds for colour and black. It also has separate CMYK ink tanks for econonical printing. 1 Year Warranty

£429 inc vat

Canon BJC-4000 - COLOUR

A colour desktop Bubble Jet, fast on black and white and brilliant on colour. 360 dpi for colour printing and an effective 720 x 360 dpi mono, using the high performance black cartridge and at speeds of up to 4ppm! It prints on various media, has a built in sheet feeder and is Windows compatible.

£287.88 inc vat

NEW Canon BJ-30 is an ideal portable printer, the perfect answer for occasional home use. It has a built in smoothing function giving an effective resolution of upto 720 x 360 dpi. The BJ-30 uses the new BC-10 cartridge system with 128 nozzle head, giving a print speed of 277 cps. The ink is fast drying water resistant and light fast. It has been designed for ease of use incorporating LCD control panel and a warning to let the user know when the cartridge is running short of ink. It has a 30 sheet integral sheetfeeder and weighs only 1.4Kg!

£193.88 inc vat

NEW Canon BJC-70 -Colour Bubble Jet Printer BJC-70 has all the advanced features of the BJ - 30 but with the added advantage of the BC-11 colour ink cartridge. The BC10 black only cartridge gives a print speed of upto 376 cps. The BC-11 colour cartridge system uses an on-line black ink cartridge that gives true black output, with colour on the same page. Also using fast drying inks to enable complex graphics to be printed without colours bleeding.

£276.13 inc vat

Options: 1. Portable kit containing Nickel Metal Hydride battery & attachment to recharge from the mains when the printer is not in use:- **£79.31**

2. Universal Power Adapter - for use world wide whatever the power supply. **£58.74**

NEC Printer

NEC PINWRITER P2Q

New to the Indi Printer Range the NEC P2Q takes 24 pin dot matrix technology to its limit offering a real cost effective solution to the home or small office user * Flexible paper handling, bottom fed continuous, multipart cut sheet and envelopes * 16K print buffer * 96 CPS in letter mode and a superfast 192 CPS in draft mode. * < 48dBA accoustic noise * Paper Parking * Manual Feed slot * 12 Months at Home Warranty

£124.99

DO YOU OWN AN AMIGA A1500 / A2000 / A3000 Or A4000

2091 SCSI CONTROLLER CARD

* 6.6 Roms for use in the A4000 * Upto 2Mb of 16 bit dips can be fitted
* Any 3.5" SCSI Hard Drive can be fitted
* Install software for SCSI Hard Drive Any other standard SCSI device can be added
* Tape streamer * SCSI Scanner
* External Hard Drive

£69.99

SCOOP PURCHASE

Top Quality 100% Error Free

BULK DISKS

50 Disk Pack £15.49 Disk Labels 500 Pack £7.49

INDI DIRECT MAIL recognises all Trade Marks and Copyrights All prices are correct at time of going to press. E & OE.

MAIL ORDER SALES HOTLINE 01543 419999

* Deliveries Insured by securicor are Free of Charge Monday to Friday. A surcharge of £10 is required on a Saturday.(Uk Mainland)

ACCESS SWITCH VISA

Contents

SYSTEM

The essential guide to Amiga gaming

System On-line 84
Find out the latest and greatest games news. This month we have pinball aplenty and the new Doom wannabes

Beat the System 88
We bring you the solution to last month's CoverDisk, The Speris Legacy, and hints and tips for Ultimate Soccer Manager

Preview: Limbo of the Lost 98
Tina Hackett previews Tri-Logic's first commercial venture in to the Amiga games market

Survey 101
We want to know what you think! Subscriptions are up for grabs in return for your valued opinions

Preview: Big Red Adventure 102
Core Design's point 'n' click adventure is coming your way. Adam Phillips takes a look

System Essentials 108
This month's cheapies include MicroProse's Fields of Glory and the classic adventure, Indiana Jones and the Fate of Atlantis

Game Reviews

High Seas Trader 90
Tower of Souls 94
Super Loopz 98
UFO A500 106

High Seas Trader – page 90

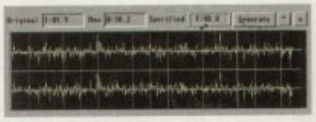
Reviews

Digita Organiser 30
Gareth Lofthouse gets organised with Digita's desktop filofax

Directory Opus 5 33
Frank Nord gives the king of file managers a good going over

TVpaint 3.0 36
We take a mouth-watering look at the all-new TVPaint

Tune Builder 39
Gareth Lofthouse previews the Amiga's ultimate pro-audio tool



CrossDos 6.0 63
Cross-platform compatibility, plug and play for PC add-ons

ULab Revisited 70
Paul Austin gives VLab Motion the recognition it deserves

Productivity CDs 73
The search for the Amiga's best CD software continues

Features

System Level Sound 41
Amiga audio and midi manipulation from a programming angle

Surfin' Do's & Don'ts 59
Ben Vost gives some tips and hints for polite, trouble-free Internet usage

DIY Game Production 66
The hands-on approach to getting your software on the shelves

Assembler 77
The quest for the perfect assembler article continues

Back-up Special 80
Protect and survive. The secrets of data security revealed

Next issue on sale 29 June

COVER STORY

THE COVERDISKS

Page 16

MUI – registered version

An amazing alternative interface that lets you create your own designer look for all manner of Amiga applications. An essential tool for anyone who wants the ultimate interface

Utilities galore

We all want an easy life, and these utilities certainly make using your Amiga an amazing place. What's more, they will give your machine that all important face lift.

Bought out!

Find out what Escom are planning for the Amiga and why everyone's favourite machine could be in pole position for the future

See page 23

REGULARS

News 7

The latest buy-out news plus the revival of GVP

USA News 12

Emplant on hold and the all new Aladdin 4.0

Comment 14

Ben Vost lays down the law on computer interaction

ESP 44

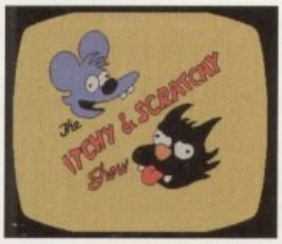
The tricky Amiga questions tackled by the mailmeister

ACAS 49

The problems of hardware and software get sorted

Public Sector 52

All the very best of your shareware and PD games and applications, courtesy of our regular reviewer, Dave Cusick



117 **ARexx** Console control and the secrets to menu set-up via ARexx

127 **Video** Gary Whiteley on the importance of dedicated monitoring

125 **Music** The revival of Dr T – Paul Overaa looks at the rebirth

119 **Comms** The literal side of surfin' with the ever present Mr South

123 **Amos** An interactive session of FAQs with Amos man, funky Phil

121 **Publishing** Style tags – Frank Nord investigates a publishing essential

AMIGA GUIDE

Amiga Medical 113

The start-up sequence dissected by Mr Nord

Amiga 3D 115

A 3D look at Pyrotechnics with smokin' Stevie

Subscriptions

Turn to page 64...

...for details of *Amiga Computing's* subscription offers this month

Double Dealing from HiSoft!

Exclusive Hot News

Following a lengthy investigation, we have discovered irrefutable evidence that Amiga publisher HiSoft is engaged in double-dealing. Although the company is known for top-selling titles such as Devpac 3, Megalosound and Squirrel SCSI, it now seems that HiSoft is prepared to offer a number of these professional packages bundled together at prices that can only be described as suspicious.

Our reporter gained an exclusive interview with David Link, of HiSoft, who made this outrageous claim: *"We have been supporting the Amiga community for 10 years now with a range of software and hardware packages. As a thankyou to all the loyal supporters of this amazing computer, we decided to make some very special 'birthday' offers to readers of this magazine."*. Double-talk? We'll leave you, the reader, to judge ...

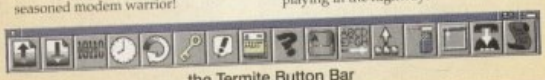
Termite

88% Amiga Computing
95% AUI 88% CU Amiga

DoubleDeal
£39.95 + P&P
inc CIX joining fee worth £25!

Afraid of becoming a hedgehog on the Information Super Highway? Don't worry! Termite is so easy to use that even a first time telecommunicator will feel at home. Yet it has all of the power and flexibility to satisfy the most seasoned modem warrior!

Termite is designed to take full advantage of all of the newest features of Workbench 2™ and beyond. It is 100% Amiga Style Guide compliant and provides you with all of the modern user interface features to really enjoy playing in the highway!



the Termite Button Bar

AURA

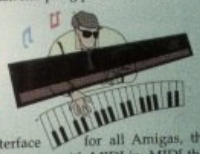
12/16 bit PCMCIA Sound Sampler
96% Amiga Shopper
90% AUI

The latest of our highly acclaimed sound samplers for the A600/A1200, Aura offers high performance 12/16 bit quality with direct-to-disk sampling plus a host of software features. Octamed 5.04 up compatible.

Aura is perfect as a stand-alone effects unit or as a complete sampling package.

DoubleDeal
£89.95 + P&P
Aura & ProMidi
Save £34.95!

ProMIDI Interface



The ideal MIDI interface for all Amigas, this smart-looking device comes with MIDI in, MIDI thru and two MIDI out ports and is complete with manual, software and a flying cable for convenient positioning.

GameSmith / Devpac 3 Amiga

Professional game development is made easy with the new GameSmith Development System. Over 3 years in the making, GDS gives you the low level power to create the masterpiece of your dreams in a single, comprehensive, easy to use system.

GameSmith fully supports and is compatible with all Amigas including AGA. A C Compiler or 680x0 Assembler is required. From shoot-'em-ups to graphic adventures, from intergalactic conquest to strategic simulation, the GameSmith Development System is the perfect solution.

The top-rated, professional's choice for Amiga assembly language development, Devpac 3 is a complete package of 68000-68040 assembler, debugger, editor and linker. Ideal for beginner and expert alike, Devpac 3 is the perfect companion for Gamesmith.

DoubleDeal
£129.95 + P&P
Devpac 3.14 & Gamesmith. Save £50!

90% AUI 92% CU Amiga

Twist 2

The Amiga Database

DoubleDeal
£94.95 + P&P
Twist 2 & MaxonMagic
Save £34.95!

Twist 2 is the new, friendly, relational database for all Amigas. Twist's range of power features such as its integrated forms designer, its varied & multi-level querying, its N:1 1:N & N:M relations coupled with its un-cluttered, well-designed user interface make it ideal for both the first-time and the seasoned database user.

92% Amiga Shopper 91% Amiga Format

Maxon Magic

This is the utility that you simply must own! Maxon Magic is a funtastic combination of 20 different animated screen savers, a system event sound manager and many amusing sampled sounds that will not only be incredibly useful but will give you and your friends endless enjoyment as well.

Squirrel Storage Systems

Amiga Format 93% CU Amiga 94% Amiga Shopper 95%

As you can see, the Amiga press has gone nuts over our new Squirrel SCSI interface for the A600/A1200. In case you've missed these reviews, the Squirrel SCSI is a plug-and-play add-on that allows you to connect up to 7 SCSI peripherals to your Amiga. Just think of it, CD-ROM, Hard drive, Scanner, DAT, Optical, SyQuest, Tape Streamer - all on line at the same time! No wonder we named it after that famous storage-hungry animal! To go with Squirrel, we have some great value devices...

Squirrel SCSI Devices

730Mb SCSI Hard Drive Fast (11ms access) Quantum drive - internal	£259 +P&P
Aiwa 2-speed CD-ROM Super-smart with audio controls - external only	£189 +P&P
SquirrelQuad CD-ROM Super-fast quad-speed, packed with features - internal	£199 +P&P

DoubleDeal
Buy a Squirrel SCSI interface with any CD or HD drive for only £50! Buy 2 drives, save £25!

Add £60 for external versions (case with integral psu and all SCSI connections) where appropriate. Squirrel SCSI interface costs £69.95 by itself.

All prices include UK VAT

Order Hotline

0500 223660

To order any of the special DoubleDeals shown on this page (or any other HiSoft product, see the list opposite) - just call us, free of charge, on 0500 223660, armed with your credit or debit card and quote DDAC; we will normally despatch within 4 working days (£4 P&P) or, for only £6, by guaranteed next day delivery (for goods in stock). Alternatively, you can send us a cheque or postal orders. All prices include VAT. Export orders: call or fax to confirm pricing and postage costs.

© 1995 HiSoft. E&OE.

HiSoft SYSTEMS
The Old School, Greenfield
Bedford MK45 5DE UK
Tel: +44 (0) 1525 718181
Fax: +44 (0) 1525 713716

HiSoft products for your Amiga:
Here is a list of HiSoft titles for the Amiga computers (prices shown are the individual RRPs): Squirrel SCSI interface - £69.95, Squirrel Storage Systems - please call, Aura 12/16 bit sampler - £99.95, Megalosound 8 bit sampler - £34.95, ProMidi interface - £24.95, HiSoft Devpac 3.14 - £79.95, HiSoft BASIC 2 - £79.95, HighSpeed Pascal - £99.95, Gamesmith - £99.95, Termite - £39.95, Twist 2 database - £99.95, Maxon Magic - £29.95, Upper Disk Tools - £14.95, VistaLite inc MakePath/TerraForm - £39.95 and much more. **Coming soon: DiskMagic** (disk tools) **and Cinema4D.**

NEWS

By ADAM PHILLIPS

Buyer found for Commodore

Escom: The new owners of Commodore

The official news from New York is that Escom have bought all the rights of ownership, technology, trademarks and patents to Commodore and the Amiga. After the somewhat harassing two days of 20-21 April, Escom's final bid of $10 million for Commodore's core assets was accepted over surprise bidder, Dell's, which stood at £13 million for the core assets. Unfortunately for Dell, their bid had certain strings attached to it which would have meant delaying the buyout further.

In a shock move, one-time favourite, Commodore UK, dropped out of the auction altogether, knowing they didn't have enough money to take on Escom or Dell. The other one-time favourite, Creative Equipment International, made a hasty alliance with Dell on the day but was unsuccessful and managed to upset Escom in the process for going against them in the bidding process.

As well as the bid being accepted by the US courts, the deal has also been approved by the Bahamian courts, making Escom's position as the new owners of Commodore final.

For the full story, turn to our five-page breakdown, starting on page 23, of the bidding day, and the interviews with the winner and losers.

Stop the press: C=UK time bomb

An unconfirmed rumour flapping its wings round the rumour mill is that if Commodore UK haven't found a buyer by the end of May, they will file for liquidation. Apparently, David Pleasance and Colin Proudfoot, joint MDs of the company, have warned in accounts filed at Companies House that the business can only survive up to the end of May.

No-one was available at the time of going to press to comment on the situation. If the above is true, one can only hope that C=UK's negotiations with Escom are successful.

Head of engineering appointed

With the recent buyout of Commodore, Escom would appear not to be resting on their laurels by appointing Dr Peter Kittel as the head of engineering for the Amiga. Kittel, ex-head of Commodore Germany, has released details on the new daughter company of Escom AG which will be based in Heppenheim in Germany and will deal with all developments concerning the Amiga.

There will be an engineering department for hardware and OS software. Also planned is an extensive marketing department, and Kittel estimates there will be a workforce of 50 people at the beginning.

If there are individuals reading this who are interested in working for the new company, they should send their resumés to: Escom AG, Personalabteilung, Tiergartenstr. 9, D-64646 Heppenheim, Germany.

Initial plans are to restart the production of existing machines (600/1200/4000) but because of Escom's casing policy, the 4000 at least should receive a new look. No immediate models will be altered technically because Kittel doesn't want to delay the re-release schedule – any alterations will come later.

As for the future, it can be confirmed that the way forward for the Amiga is RISC-based. The two principle systems being considered are Power PC and Hewlett Packard's PA RISC. "It will be the first task of engineering to prepare this choice of paths into the future" commented Kittel.

He also states that Escom have decided to be very "liberal" in regards to licensing the Amiga technology out to third parties: "Whoever wants to build, for example, an Amiga lap-top or set-top box can get the chips and OS!"

The new head of engineering is quick to point out, though, that all the above "is still a letter of intent. The points which are declared are still open."

Whatever the case, it's good to see Escom are moving so swiftly.

GVP saved

Parallels aplenty this month with another German company stepping in to save the day and revamp part of the Amiga's heritage. The critically-acclaimed hardware producers, GVP, having bitten the bullet, have had their intellectual rights bought by German-based company M-Tec in conjunction with Power Computing in Britain.

The only product available to buy at present is GVP's RAM. For the rest of the extensive catalogue, potential buyers will have to wait another two months. The catalogue at the moment consists of the 68040/68060 accelerator for the 2000/3000/4000, a 16-bit sound sampler, the HC8 SCSI interface and the I/O Extender, among others.

"This is a great day for the Amiga – first the buyout of Commodore and now GVP have been plucked from the jaws of ruin" commented Tony Ianiri of Power Computing. "There's a wind of hope blowing through the Amiga community and this is just the beginning. Things can only get better."

For more details, contact Power Computing on 01234 273000.

More storage with a zip

The Zip drive – could this system replace the floppy drive in the future?

Utah-based Iomega Corporation have released the Zip drive and Zip disk – the Zip drive is a compact, portable solution for moving information between work and home, expanding hard disk capacity, organising and saving business and personal financial records, and sharing large files. Basically, the system works along a similar line to floppy disks but offers a far bigger storage capacity. Zip disks are available in 100 and 25Mb capacities, and can be purchased in single packs or economical five packs.

"Our new Zip drive is unlike any other storage product on the market," said Timothy L Hill, vice president of marketing for Iomega Corporation. "It's like getting four drives in one. It's an unlimited upgrade for your filled up hard disk; a high-capacity mobile storage solution; a personal organiser of your stuff; and, it's an excellent back-up drive."

Every Zip drive comes complete with a starter Zip disk that includes ZipTools software to help consumers organise, track and quickly locate their computer information.

Contact Iomega Corporation's UK headquarters on 0181-899 1734 for more details.

WTS update

Wounded consumers awaiting news of developments in the WTS fraud case will have to wait longer than they hoped for a conclusion to the criminal proceedings brought against the mail order firm. *Amiga Computing* contacted DC Ron Lack, one of the key police personnel investigating the case for an update: "There's no change and there isn't likely to be for a number of months yet... when we've seen the wood for the trees so to speak, we'll be able to give angry customers the full picture. The time it takes is simply the nature of this particular beast."

Indeed, fraud is a laborious crime to prove sufficiently and it would seem that consumers are going to have to be patient for the time being. In the meantime, if there are still further disgruntled customers who want to pass on any information to the police, here's the address to write to: DC Ron Lack, Bedfordshire Police Fraud Squad, Ampthill Police Station, Woburn Street, Ampthill MK45 2HX. Please don't ring – they're busy enough.

The call of the Big Smoke

After last month's call for animators to submit work to the European Festival of Animation, another exhibition has appeared in the form of the London Effects and Animation Festival. Acting as a showcase for the best in creativity in Europe, the show has attracted some high calibre competition in the last few years from companies across the world.

The event is split into several categories that include art, broadcast graphics, commercials, interactive entertainment, feature films, music video films and student work, among others. The closing date for all entries is 8 September. These entries will be judged by a panel of experts made up of media, potential clients and fellow professionals, and the awards will be handed out on 29 November.

Also included during the festival is a three-day programme of seminars and screenings which takes place alongside the Computer Graphics Expo at the Wembley Conference Centre from 28-30 November.

For more details and an entry form, call Debbie Brown on 0181-995 3632.

London Effects and Animation Festival: Get your work seen by potential employees

Ex-BT engineer fined for software theft

In another joint collaboration between ELSPA and the police, a raid was carried out on the home of ex-BT engineer, Alan Pirie, leading to a conviction and seizure of £200,000 worth of illegal software. Pirie was found guilty of six offences of selling and possessing, and was fined £1000 and ordered to pay £100 costs.

"One the major aims of ELSPA is to crack down on the illegal copying and distribution of pirated software" commented John Loader, head of ELSPA's crime unit. "As an industry, the computer and leisure software sector needs to be protected against those individuals or organisations that seek profit from its illegal activities."

Anyone with information concerning pirated software should call ELSPA on 01386 830642 in confidentiality.

NEWS

Further Photogenics

Those busy bods at Almathera have released another upgrade for their critically-acclaimed image processing package, Photogenics. Version 1.2 has had a series of new options added to it – warper tools allowing you to distort, bend, stretch and twirl parts of your image, printing capabilities, CyBERgraphics 24-bit painting, transparency gradients, the much-needed crop facility and for those without AGA machines, a HAM6 display option.

Improvements have been made to the previews and compose modes, and there are also some new paintmodes (colourise, gamma, mirage, jitter), NewIcon support, new GIOS (TIFF, PCX, HAM6, Retina, ProGrab24 among others). If you're a 1.1a owner, the upgrade will cost £15. For a brand spanking new copy, the price tag is £59.95.

Call Almathera on 0181-687 0040 for more information.

Netting the benefits

While many people are convinced of the potential offered by the Internet for a variety of purposes, there are still sectors that remain unconvinced, according to Future Marketing. The company believe that the Net is being seen by some as nothing more than a fad, and those people need to be informed about the benefits of using the Web.

Aimed at IT and marketing professionals, Future Marketing are hosting a series of day-long non-technical seminars. The day itself begins at nine and runs through to 17:30, addressing some of the most common questions from a Net novice – what exactly is the Internet? Are the companies employing it being successful?... and so on.

The cost of the seminar is £285 + VAT per delegate which includes lunch, refreshments and literature, and places can be reserved on 01737 222615. The first seminar takes place on June 14th.

The Fall & Rise in Amiga Frame Grabbing...

NEW VERSION 2.5 SOFTWARE NOW INCLUDED! (See details bottom left)

AMIGA SHOPPER READER AWARDS... "And the winner is - ProGrab" VOTED... 1st PLACE IN THE VIDEO HARDWARE SECTION!

ProGrab™ caused a Real Fall in the Price of Quality Frame Grabbing - the Rise in Standards speak for themselves!

The revolutionary ProGrab™ 24RT with Teletext is not only the best way to get crisp colour video images into your Amiga, it actually 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 received honours from just about every Amiga magazine! And... with ProGrab™ you needn't be an expert in Amiga Video Technology either... A simple 3 stage operation ensures the right results - Real Time, after time.

STAGE 1...

Select any video source with 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). ProGrab™ even includes a Teletext viewing/capturing facility from either TV or satellite sources. Once grabbed, simply download and view the full image on your Amiga screen.

STAGE 3...

Use the image with your favourite word processor, DTP or graphics package.

For just £129.95

ProGrab™ is supplied with everything you'll need...

- **ProGrab™ 24RT Digitiser** (with power & input signal leads)
- **New Version 2.5 Software**
- **Parallel Connecting Cable**
- **Mains Power Supply Unit**

ProGrab™ accessories can extend performance even more for the serious/professional user.

Available accessories include...

- **PCMCIA Interface for A600's and A1200's only £29.95** giving FASTER operation...
  - Faster Downloading Times (up to FIVE times quicker)
  - Improved animation speeds of up to 11fps (mono) and 3.5fps (colour)
  - New sound sampling and animation capabilities (separate sound sampler required)
  - Save animations direct to your Amiga's hard drive
- **S-VHS Connection Lead only £4.95** Only necessary if your output device doesn't have a standard phono composite video out socket)

Pro-GRAB 24RT

ProGrab™ **really does** make it that simple!

ProGrab™ supports any Amiga with Kickstart 2.04 or later and 1.5Mb. free RAM.

ProGrab™ has just been voted as The Best Video Hardware product for the Amiga. This is especially pleasing because the award comes from the magazine's readers - our satisfied customers!

ProGrab™ boasts a 92% Gold rating by Amiga Format with comments like.. "ProGrab hardware is top notch" and "For sheer value for money, ProGrab cannot be beaten"

CU Amiga's rating of 86% 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."

Standard ProGrab™ hardware is PAL/SECAM/NTSC compatible - interlace mode options available with PAL & SECAM only. NTSC Only models are available to special order which then support the interlace mode fully. Please ask us for full details.

To get **your** hands on ProGrab™, call our sales line on...

01 773 836781

...or Post/FAX your requirements on the order form provided.

gordon **harwood** computers

the UK's favourite Amiga Dealer

Gordon Harwood Computers Limited. New Street, Alfreton, Derbyshire DE55 7BP. Tel: 01 773 836781 Facsimile: 01 773 831040

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

Address:

County (Country): Postcode:

Daytime Phone: Evening Phone:

Please rush me... ___ ProGrab™ Frame Grabber @ £129.95 inc. p&p £____:__

___ PCMCIA Interface @ £29.95 inc. p&p £____:__

___ SVHS Connector @ £4.95 inc. p&p £____:__

___ Optional FAST Courier Service Delivery £ 6:95

Upgrade to Software Version 2.5 @ £4.95 inc. p&p please tick ☐

Card holder's signature:

(Overseas Customers - Please Call for Prices etc.) TOTAL £____:__

Card No: | | | | | | | | | | | | | | | | |

Expiry Date: | | | | Issue No (Switch Only): | |

Dept: ACO

Cheque/Bank Draft/Postal Order for £ _____:__ payable to Gordon Harwood Computers Limited...

Three million and rising

That on-line service, CompuServe, just keeps pumping out those press releases – in this month's instalment, the company has now officially achieved over three million paying users. They claim they are signing up as many as 60,000 new members each week.

"In the past year, there has been tremendous interest in on-line services and the Internet. And as the undisputed leader in on-line content, global networking and information services, CompuServe has become the place to be for millions of people" stated Barry Berkov, CompuServe's executive vice president.

CompuServe

CompuServe just keeps growing and growing

Read/write CD!

Massive storage capabilities are now available to the home user – Hi-Q have announced the imminent launch of the Panasonic PD System Optical Drive. Coming with a quad speed CD-ROM, a Hybrid 650Mb and an Optical Read/Write system allowing access to stockpiles of information at the click of a button, the system costs £680 approx.

Call Hi-Q on 0181 909 2092 for more details.

Mega oops!

Our review of Easy Ledgers in the May issue of *Amiga Computing* gave the price as £29.99. Unfortunately, the suppliers, Wizard Developments, have phoned up to inform us that the package actually costs £199.99. For those interested in purchasing Easy Ledgers, they should adjust the value for money score from nine to six.

This is Apollo calling

Accelerators seem to be on the increase as people want more and more power for their upgrade-starved Amiga. New from Siren software is a range of accelerators with hooky title of Apollo.

The top of the range Apollo 1230 Turbo 50 for the 1200 runs at just under 10 MIPS. The card fits into the trapdoor slot of the Amiga which isn't too healthy for memory upgrades. Call Simon Cobb on 0161-796 5279 for more details.

IT illiterate

Over two-thirds of small businesses are admitting they aren't as clued up as they'd like to be with the ever-growing world of information technology. In a survey conducted by Lloyds bank of 300 small firms, just over half the businesses said they were computer literate – lack of technical support, suitable training courses and objective advice being the main problem areas according to the small businesses contacted.

Also identified by the survey were several areas of missed potential – for example, one fifth of larger firms polled still don't use computers for invoicing and credit control.

John Spence of Lloyds bank commented: "It is clear from these findings that many consider themselves inadequately informed on the subject. As we are increasingly moving towards a world dominated by technology, the findings are clearly a cause for concern."

Change of number

For those interested in buying the Advanced Amiga Analyser (reviewed in the May issue), the company to order from has changed. The new suppliers Dart Computer Services can be reached on 0116 247 0059 and the price remains the same - £49.95.

Stay tuned

For the latest news on *Amiga Computing* and all things Amiga, take a look at our home page. Tap in the following URL Web address:

http://www.demon.co.uk/amigacomp

While you're there, take a look at our list of top ten fave sites on the Internet and access them.

News briefs

Lightwave has arrived

Lightwave 4, the package that everyone knows about, is now available from Premier Vision, and owners of 3.5 can upgrade to the latest version on any platform (Amiga, PC, SGI, Dec Alpha) for a paltry £150. The price for the full version is £695.

Call Andy Bishop or Andy Gould on 0171-721 7050 for more details.

Anim update

For those interested in the European Festival of Animation (as featured in last month's news), the organisers have a new number for interested parties – 01295 264711. The closing date for entries is the end of June.

Photographic print outs

Printers that can produce near photographic print outs are highly sought after. With the wealth of Amiga art packages such as Photogenics and Deluxe Paint 5, such a piece of kit would be ideal for small design companies and artists.

The Primera and PrimeraPro colour printers from Chicago-based Parallax Technology have been out for quite some time now, offering a range of dye-colour sublimation colour images for its users. With the arrival of their new Amiga-specific colour print driver though, 24-bit images can now be printed out.

The driver is free to all existing Primera/Pro owners and is available as standard to potential buyers. For more info, contact Parallax Technology on 001 312 645 4835.

CD-ROM slash

For those with a yearning to move over to CD so that productivity CDs and CD32 games can be become a part of their computing, the Zappo CD-ROM drive has received a rather substantial price cut of £40. The unit can now be picked up for £159.99 and features the latest software to aid CD32 compatibility.

For more details, contact Don Carter on 01543 419999.

Software upgrade

No sooner have Gordon Hardwood Computer's released version two software for the ProGrab 24RT, version 2.5 is now upon us. Featuring additional file format support, image processing effects (emboss, convolution, oil paint and many more), palette computing routines and dithering form the main basis of the upgrade and can be obtained from Harwoods on 01773 831040.

A sonnet for the Amiga

Hot on the heels of the scorchingly fast Cyberstorm 060 card, the Sonnet 50MHz Doubler 4000TM is a daughter board that plugs into the 4000's CPU socket. The distributors, Blittersoft, claim the card delivers across-the-board speed increases for all applications and system functions.

Featuring an on-chip cache and maths co-processor, the chip costs £399.95 and can be obtained form Paul Le Surf on 01908 261466.

FIRST COMPUTER CENTRE

HOW TO ORDER

Order by telephone quoting your credit card number. If paying by cheque please make payable to: "FIRST COMPUTER CENTRE" In any correspondence please quote a phone number, post code & Dept. Allow 5 working days cheque clearance

SHOWROOM ADDRESS:
DEPT. AC, UNIT 3, ARMLEY PARKCOURT, STANNINGLEY RD, LEEDS, LS12 2AE.

SWITCH VISA DELTA MasterCard

DELIVERY TARIFFS

- Standard delivery £1.95
- 2-3 Week Days £2.95
- Next Week Day £4.95

Delivery subject to stock

LOW INTEREST FINANCE AVAILABLE (SUBJECT TO STATUS)

- All prices include VAT @ 17.5%
- Large showroom with parking
- Multi-million pound company
- Overseas orders welcome
- Educational purchase orders welcome

OPEN 7 DAYS A WEEK

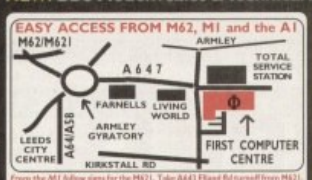
Prices are correct at the time of going to press. Please check our latest prices before ordering. All sales are subject to our standard terms & conditions (copy available upon request). E&OE.

E-mail: sales@firstcom.demon.co.uk

Telephone 0113 2319444

24 HOUR MAIL ORDER SERVICE FAX: 0113 2319191

NEW! BBS Modem sales & technical line Tel 0113 2311422



From the M1 follow signs for the M621. Take A643 Elland Rd turnoff from M621. Follow signs for A58. This merges with Armley gyratory.

From the A1 take the turnoff for the A64. This merges with the A58 (by-passing Leeds town centre) which meets the Armley gyratory.

AMIGA REPAIR CENTRE

We offer a FREE quotation on your Amiga or any peripheral (monitors, printers etc). A delivery tariff of just £5.00 is charged or alternatively you can visit our showroom.

We can also arrange a courier pickup at an additional cost of £11.00.

Tel. 0113 2319444

RAM Expansion

PRIMA

Realise the full potential of your A1200 with the Prima Technologies trapdoor RAM expansion, includes real time clock.

1 MB RAM	£90.99
2 MB RAM	£129.99
4 MB RAM	£194.99
8 MB RAM	£319.99
2 MB & 33 MHz CO PRO	£149.99
4 MB & 33 MHz CO PRO	£219.99
8 MB & 33 MHz CO PRO	£334.99

Part exchange available on your old memory, Call for pricing.

A500/500+/600 RAM Expansion

PRIMA A500 512k RAM (no clock)	£19.99
PRIMA A500 Plus 1 Mb RAM	£32.99
PRIMA A600 1 Mb RAM (no clock)	£33.99

Hard Drives

3.5" Hard Disk Drives with A1200/600 install kit

(We recommend 3.5" drives be fitted by fully qualified computer engineers)

inc. software, cables and instructions

260Mb...£154.99 420Mb...£169.99
540Mb...£184.99 850Mb...£259.99

3.5" H/drive upgrade kit no HD only!! £18.99

Includes set up software, cables and full instructions.

Fitting service available if required.

2.5" Hard Drives for A600/A1200 with installation kit

inc. software, screws, cables and instr.

60Mb...£99.99 130Mb...£139.99
80Mb...£109.99 250Mb...£189.99

All drives supplied by The First Computer Centre have a minimum 12 month warranty and are tested to ensure 100% compatibility.

Full range of SCSI & IDE drives always in stock, call!!

PRIMA

A600/1200 Hard Drive set up software £5.99

CD ROM Drives

A1200 OVERDRIVE CDROM
New low price!! £189.99

POWER CDROM drives
Dual speed £199.99
Quad speed £299.99

SANYO-H94AX2 £126.99
•320Ms Access time •300KB transfer rate.

PLEXTOR-PX43CSX4 £239.99
•150Ms Access time •660KB transfer rate.

NAKAMICHI-MBR7 £335.99
•Allows up to 7 CD ROM disks to be installed.
•Fully SCSI II compatible •Dual speed drive

Oktagon 2008SCSI-II card £124.99
SCSI II interface card, allows connection of any SCSI device into big box Amiga's.

Squirrel SCSI interface £40.00
When bought with drive, £54.99 separate.

Monitors

All our monitors comply to UK specifications. All monitors come complete with connecting leads*.

Microvitec Autoscan 1438
.28 dpi, 15/38 KHz, all Amiga modes, AGA compatible. No audio, tilt & swivell stand.
only £279.99

*A1200's require an adaptor £6.99 extra

NEW!! AMITEK 1084-S
14" stereo colour CGA monitor. Ideal for both the game player and the more serious user.
only £199.99
Tilt and swivell stand only £9.99 when purchased with monitor
All monitor dust covers only £5.99

Memory Modules

1 Mb 72 Pin SIMM	£39.99
2 Mb 72 Pin SIMM	£79.99
4 Mb 72 Pin SIMM	£130.99
8 Mb 72 Pin SIMM	£262.99
16 Mb 72 pin SIMM	£399.99
1 Mb 30 pin SIMM	£34.99
4 Mb 30 pin SIMM	£110.99
256 by 4 DRAM (DILs)	(each) £5.99
1 Mb by 4 ZIPPS	(each) £32.99
256 by 4 ZIPPS	(each) £5.99

Part exchange available on your old memory, Call for pricing.

Floppy Drives

AMITEK

SONY DELUXE 3.5" EXTERNAL DRIVE. £54.99 SPECIAL OFFER

CUMANA Ext. drive ONLY !! £49.99
1mb ext. the best name in drives.

A1200/600 internal drive £39.99
A500/500+ internal drive £39.99

Scanners

Power Scan v4. £105.99
256 g/scale on AGA Amigas, 64 g/scale non AGA

Power Scan Col. £204.99
24 bit colour scanner, 16.7 million colours

Alpha Scan 800 £99.99
800 dpi, 256 g/scale, works on all Amigas

Alpha Scan 256 £139.99
256 g/scale, full OCR software, req. HD to use OCR

Epson GT6500 £529.99
24 bit flatbed scanner, gives superb results, requires Art Department scanning software, price £99.99

Genlocks

hama 292 £279.99
S-Video, and composite compatible

hama 290 £679.99
S-Video, and composite mixing, plus far more

hama A-Cut editor £185.99

GVP Genlock £289.99
features professional SVHS output

Rendale 8802FMC £164.99
Superb entry level genlock, with pro features

Rendale 9402 £289.99
Full featured, Super-VHS genlock

Tabby

The amazing new graphics tablet for the Amiga developed with the help of First Computers. 94% rated in Amiga Shopper. Requires 2.04 WB or above.

Printers

Canon

NEW! Canon BJ30 £214.99
Compact Portable mono printer, 30 page ASF built in.

NEW! Canon BJC70Colour £304.99
High quality Portable colour printer, 30 page ASF built in.

NEW! Canon BJ200ex £235.99
High speed, high quality mono printer, virtual 720 dpi.

Canon BJC4000Colour £309.99
High quality colour, super fast mono printing 360x360 dpi.

NEW! Canon BJC600e Colour £445.99
New enhanced, dedicated colour printer, virtual 720 dpi.

HEWLETT® PACKARD

NEW! HP540 mono £269.99
Colour upgradeable mono ink jet.

HP 320/540 Colour upgrade £36.99

NEW! HP 660 Colour £435.99
New colour inkjet from HP.

HP 4L laser printer £449.99

Laser Printers

Panasonic KXP4400 £354.99

OKI 400e £359.99

CITIZEN COMPUTER PRINTERS

ABC Colour printer £149.99
single (as easy as ABC) to use 24 pin printer. Comes as standard with 50 sheet Auto sheet feeder. Tractor feed optional at £27.99
only £134.99 if bought without the colour option

NEW! !Project II Colour £259.99
New colour inkjet printer with built in auto sheet feeder

NEW!!Project 3 mono £POA
High quality 720 dpi mono printer, 3 p/p/m, 3 year warranty.

Citizen printers have a 2 year guarantee

star MICRONICS

Star LC100 9 pin Colour £124.99
9 pin colour printer, 8 NLQ fonts, 180 cps draft.

Star LC90 9 pin mono £105.99
9 pin mono printer, ASF built in, push tractor optional.

Star LC240 24 pin mono £125.99
24 pin mono printer, 192 cps draft, with ASF built in.

Star LC240C 24 pin Colour £144.99
24 pin colour printer ASF built in, 4 LQ fonts.

Star SJ144 Colour £239.99
Stunning affordable colour thermal transfer printer, low running costs, 3 p/p/m mono, 1.4 p/p/m colour.

SupraFAXModem

SupraFAXModem 288

- Up to 115,200bps (v42bis)
- Silent & Adaptive Answer
- V34 Standard
- NComm Software
- Class 1 & 2 Fax
- Unique LCD Display
- Flash ROM
- 5 Year Warranty

only £188.99

Is it a bargain the size of a Hippo's Bum? - You Betcha!! - Amiga Computing Oct. 1994

SupraFAXModem V.32bis

This modem has full 14400 baud. includes V.32bis, V.32, V.32bis, V32, V21, MNP2-5, V.42, V42bis, Class 1 & 2 commands, 9600/14400 Group 3 Fax. Includes free modem comms (not Fax)s/w & cable

only £152.99

SupraFAXModem 144LC

V.32 bis (14400 baud !)

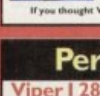
Low cost version of the classic V32Bis Fax modem. Features as below but class 1 fax only and LED display

now only £96.99

Supra modems are not BABT approved, however they perform as well & often out perform BABT approved modems. Supra Modems have a 5 year limited warranty

US Robotics

WE ARE PREFERRED USR DEALERS



Sportster 288 only £233.99
features V34, 28,800 BPS, BABT approved
If you thought V32bis was fast try V 34 (28,800 bps).

Sportster 144 £157.99
Amazing price reduction on Courier dual standard V34 now only!! £327.99

Disks/Storage Boxes

QTY	Bulk DS/DD	Branded DS/DD
10	£3.49	£4.99
30	£9.99	£13.99
50	£15.99	£19.99
100	£29.99	£37.99
200	£54.99	£69.99
500	£134.99	£162.99
1000	£259.99	£299.99

All disks are guaranteed 100%. All branded disks come with labels

MULTI COLOUR Disk labels
500 £6.99
1000 £9.99

10 Capacity box	£0.99
50 Capacity lockable box	£3.99
100 Capacity lockable box	£5.49
*90 Capacity Banx box	£9.99
*150 Capacity Posso box	£17.99
100 Capacity CD holder	£4.99

*add £3.00 delivery if purchasing just one Posso or Banx box. Normal delivery when purchased with other product or when buying 2 or more.

Consumables

Ribbons

Citizen Swift/ABC mono	£3.99
Citizen Swift/ABC colour	£12.99
Star LC90 mono ribbon	£4.99
Star LC10/100 mono	£3.69
Star LC10/100 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

MOST OTHER MAKES AVAILABLE

PREMIER-INK Cartridge Refills

Save a fortune in running costs with your ink/bubble jet. Compatible with the HP Deskjet series, Canon BJ10/20/80/130/200/300/330, Star SJ48, Citizen Projet 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

Miscellaneous

Printer Switch Box 2 way	£12.99
Printer Switch Box 3 way	£17.99
Printer Stands (Universal)	£7.99
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 extension cable	£9.99

Ink Cartridges

Canon BJ10/Star SJ48	£19.99
Canon Bj200/230	£19.99
Canon BJ30 (3 pack)	£13.99
Canon BJC 70 mono (3 pack)	£10.99
Canon BJC 70 colour (3 pack)	£16.99
Canon BJC 4000 colour (single)	£16.99
Canon BJC 4000 mono (single)	£7.99
Canon BJC 4000 mono hi capacity	£28.99
Canon BjC 600e mono	£6.99
Canon BjC 600e colour	£8.99
HP.Deskjet colour	£26.99
HP. Deskjet double mono	£24.99
Epson Stylus mono	£15.99
Epson Stylus colour	£36.99
Star SJ144 mono/colour (single)	£7.99

Covers

All printer dust covers £5.99

Paper

Prices apply only when ordered with printer or purchased direct from the showroom

Fanfold (tractor feed) 500 sheets	£4.99
Fanfold (tractor feed) 1000 sheets	£8.99
Fanfold (tractor feed) 2000 sheets	£17.99
Single sheet 500 sheets	£4.99
Single sheet 1000 sheets	£8.99
Single sheet 2000 sheets	£17.99

Delivery for 2000 sheets £5.00 when purchased without printer

Epson Stylus 720 dpi paper (pack) £22.99

Replacement/Spare parts for all printers available, call for quote.

Peripherals

Viper I 28 mhz	£114.99
Viper II 28 mhz	£139.99
Viper II 40 mhz	£199.95
Mega Mouse 400 dpi 90%	£13.99
Truemouse 300dpi	£11.99
Crystal Trackball	£34.99
Zydec Trackball	£29.99
ZyFi-2 Speakers	£26.99
ZyFi Pro Speakers	£57.99
Amiga modulator	£34.99
Amiga PSU	£34.99

Turbotech realtime clock cartridge £17.99 fits any Amiga

Chips

Kickstart 1.3	£23.99
Kickstart 2.04	£30.99
Kickstart 2.05 (for use in A600)	£30.99
Fatter Agnes 8375	£26.99
Super Denise	£18.99
6571-0326 Keyboard controller	£13.99
CIA 8520A I/O controller	£10.99
68882 Co Pro 25mhz PLCC	£34.99
68882 Co Pro 33mhz PLCC	£44.99
68882 Co Pro 40mhz PLCC	£79.99
68882 Co Pro 40 mhz PGA	£89.99
68882 Co Pro 50mhz PGA	£99.99

Software

VIDI 12 AGA only!! £59.99

NEW!! VIDI 24 RT £134.99
Real time colour digitising from any video source. Full AGA support. Inc. 12 Volt PSU.

VIDI 24 RT PRO £209.99
24 bit quality real time colour digitising from any video source. Full AGA support. Inc. 12 Volt PSU.

Music/Sound

Aura 12 bit sampling	£74.99
SPECIAL OFFER !! Music X 1.1	£19.99
Pro Midi Interface	£24.99
Techno Sound Turbo 2	£28.99
Tecno Sound Turbo	£20.99

Utilities

NEW!! Directory Opus 5	£59.99
GP FAX 2.3 software	£49.99
XCopy Pro V2 plus hardware	£24.99
NEW!! Discology	£35.99

Video & Graphics

NEW!! Deluxe Paint 5	£69.99
Distant Suns 5	£29.99
Make Path for Vista	£8.99
Special offer !! Lightwave	£399.99
Vista Pro 3 (4Mb required)	£29.99

Word Processing/DTP

Final Writer DTP NEW!!	£69.99
Final Copy V2 UK..New Low Price!	£48.99
Pagestream 3 U.K. version	£209.99
Penpal	£29.99

CD Software

17 Bit Collection	£28.99
17 Bit Continuation	£14.49
17 Bit Phase 4	£14.49
17 Bit/LSD compendium 1	£16.99
17 Bit/LSD compendium 2	£16.99
Aminet 5	£14.49
Aminet collection (Box set 4 CD's)	£29.99
Assassins CD	£16.99
CD-PD 1	£8.99
CD-PD 2	£8.99
CD-PD 3	£8.99
CD-PD 4	£8.99
Demo CD 1	£8.99
Demo CD 2	£8.99
DeskTop Video CD	£13.99
EuroScene 1	£9.99
Emerald Mines	£12.49
GIFs Galore	£14.10
GoldFish 1	£24.49
GoldFish 2	£24.49
Illusions CD	£8.99
Light ROM	£37.99
MultiMedia ToolKit	£16.99
Network CD	£12.49
Professional Fonts	£16.99
Towns of Tunes	£16.99
WPD Fonts.	£12.49
WPD Hottest 4	£12.49
WPD Utils 1-1500	£12.49

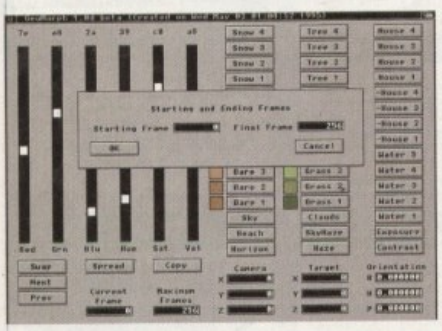
PRIMA CD-ROM Vol. ONE
510Mb of fonts, artwork, photo's, demos, utils, games
now only £16.99

Reality bites

USA news

Yet more news from across the pond, courtesy of Denny Atkin

If you've worried that Virtual Reality Labs, Inc.'s success in the PC market might mean the end of the company's Amiga support, you can end your fears. VRLI has contracted with Chaocity to maintain, enhance, and market their Amiga line of software. Chaocity is run by Clint Woeltjen, one of the principle developers of the Amiga version of VistaPro. Chaocity's first new Amiga product is GeoMorph, a program which reads VistaPro DEM-format landscape files and MakePath scripts and produces sequences of VistaPro DEMs, and a VistaPro script which gradually morphs one landscape into another. Also, tree growth and density, tree level, snow level, sea level, and haze density can be controlled across the animation.



Landscape colours can be changed independently of other morphing. Multiple morphs can occur within a single script, and multiple scripts can be pasted together. You should be able to use GeoMorph to create some dramatic effects, whether morphing from a before to an after picture of the Mt. St. Helens explosion or animating the genesis of Earth.

The next product from Chaocity, coming later this year, is GeoForge, which will let you go a step further and design your own landscapes. For more information, contact Chaocity, 221 Town Center West #259, Santa Maria, California 93454; phone (805) 925-7732; fax (805) 828-3128.

Emplant PC on hold

If you purchased the initial release of the e586DX PC emulation module for Utilities Unlimited's Emplant board, you were probably shocked at its poor performance and its inability to run any Windows release greater than 3.0. In mid-April, Utilities Unlimited's Jim Drew responded to customer complaints on the GEnie online network.

"About three weeks ago, we discontinued work on the Amiga version of Emplant's e586DX emulation module," Drew says. "We have been working on the PowerPC version only. In the last few days we have ported back the PowerPC assembly code to 680x0, which has resulted in an emulation that corrects the MMU problems associated with some versions of Windows and some memory extenders. The code is 750K smaller, and is 20-200 per cent faster than the v1.1 version (without CPU transcription). This emulation is completely different code from the previous Amiga version."

Drew says that the back-ported code is being worked on, but wouldn't give a release date. "The only way we can continue to provide new products and support for the Amiga community is to expand into other markets," he explained. "Our first order for 'PowerCLONE' (the PowerPC version of our e586DX emulation) exceeded our gross revenue since we got into the Amiga market place (in 1989), something we can not ignore."

While the users who have shelled out $99 for an emulator that doesn't do much more than run the DOS version of WordPerfect are obviously distraught, it pays to remember that the original version of the Emplant Macintosh emulation also barely worked. Hopefully, Drew and company will repeat history and end up providing us with a PC emulator that works as well as the Mac Emplant works now.

Aladdin's out of the bottle

While you wait for PC emulation to be perfected, you can spend your time building virtual worlds with a product from a company that remains dedicated exclusively to Amiga products. Adspec's Aladdin4D version 4.0 is dramatically enhanced from earlier versions of the 3D rendering program, adding user-requested configurability and a host of new features. Despite all of this, the company has been able to lower the product's price.

The revamped 3D user interface supports the standard ScreenModes requester, so you can now choose which graphic mode to edit and preview your work in – and you can also use third-party displays like the Picasso II.

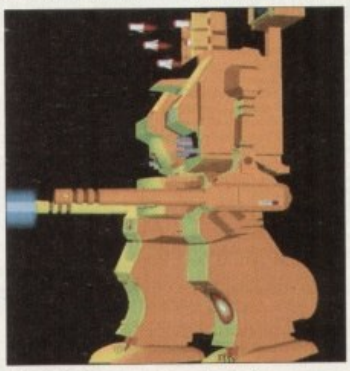
Perhaps the most significant feature for folks sending animations out to video is Field Rendering. This emulates the interlaced scanning of real video cameras, and can make for incredibly smooth animation displays. Adspec say their field rendering takes no longer than standard rendering; on some competing animation systems it can double the time needed to create an anim.

Image size and screen size are no longer synonymous, so you can create letterbox animations. If you're using gas effects, you can now move the camera into the gas, making for some dramatic views. Multiple selections have been improved, and anim requesters can be more easily reached from different parts of the program.

Flares and Fountains can now be either added for star and flame effects, or set for a new transparent mode. This allows you to use them for some outstanding confetti effects. Transparency can be set to achieve anything from barely there, to cellophane effects, to completely opaque, and black flares and fountains are now possible! You can also use the Alpha channel type in the texture list to control the shape and transparency of the flare and fountain images. Flares and Fountains also render significantly faster.

With the new batch rendering mode, you choose the drawings you want to render and set the target file names. Aladdin4D will load each drawing in the list and render it, one after the other, until it finishes or you tell it to stop. Drawings and render files may be spread among multiple devices and can be in multiple screen modes.

There are many other new features, including external operators, a faster shading tool, and an interactive bevel tool. You can even add notes in your drawing to reference why you did particular things to objects.



Aladdin 4D version 4.0, offers an alternative to 3D renderers

The program requires 4Mb and a maths co-processor. Upgrades from earlier versions and from Draw 4D Pro start at $119.50 plus shipping, and new users can purchase the program for $229.50 plus shipping. You can order with a MasterCard or Visa by calling (216) 223-2255. For more information, call (216) 337-3325 between 11am and 2pm EST (five hours earlier than GMT), or write Adspec Programming, PO Box 13, Salem, OH 44460 USA.

Emerald Creative Technology

Books

Mastering Amiga Programming Secrets
Learn a whole range of coding tricks to enhance & improve your programming techniques
£19.95

Mastering Amiga Programming Secrets NEW £19.95
Secrets of Frontier Elite £8.95
Guide to Frontier - find the secret ship !
A1200 Insider Guide £12.95
A1200 Next Steps £12.95
Amiga Disks & Drives £12.95
Assembler Insider Guide £13.95
Desktop Publishing £14.95
Imagine Hints & Tips £7.95
The Font & Clipart Book £9.95
Includes offer for 2 disks fonts and clipart available separately from the publisher
Workbench A-Z Insider Guide £13.95
Mastering Amiga Arexx £17.95
Mastering Amiga Printers £17.95
Mastering Amiga Dos 3.0 Reference £19.95
Mastering Amiga Dos 3.0 Tutorial £19.95
Mastering Amiga Dos Vol2 ..... £17.95
Mastering Amiga Dos Scripts £19.95
A1200 Beginner's Pack £36.95
Includes A1200 Insider Guide, A1200 Next Steps, Amiga Insider Video + 4 disks of shareware
Workbench 3 Booster Pack £36.95

Image Processing & CAD

Imagine 3
Rolling Upgrade program
The next 3 updates over the next year ! You must have Imagine 3 to qualify. In stock now.
£99.95

Art Department Professional v2.5 .. £139.00
More conversion options, CDXL modules, hotlinks to DPaint
AD Pro Conversion Pack £59.99
ASDG GT6500 Scanner Software .. £89.95
Caligari 24 ..... £89.95
Easy to use 24 bit colour renderer
Caligari Broadcast v3.1 ..... £249.99
ASDG Pro Control £50.95
Imagine 3.0 ..... £99.95
Maxxon Magic £23.95
Screen saver
Morph Plus £129.95
Essence vol 1 + Forge £79.95
Essence vol 2 + Forge £79.95
Algorithmic textures for Imagine 3
Naksha Hand Scanner £69.95
400 dpi mono hand scanner for A500 & A500+
Pixel 3D Pro II NOW IN STOCK £94.95
Pro Vector 3 NEW .. in soon - call for details
Pro quality structured drawing package
Real 3D Classic NEW LOWER PRICE .. £59.95
Real 3D v3 NEW £299.95
Real 3D 2.4 to 3 upgrade £166.95
X-CAD 2000 ..... £29.95
X-CAD 3000 ..... £119.95

Hardware

The amazing new Squirrel SCSI interface lets you add SCSI devices to your Amiga 600/1200, including CD Drives (includes CD32 emulation)
£59.95

Pro Grab 24RT £125.95
24 Bit Real-Time Colour Frame Grabbing
Rendale 8802 Genlock £159.95
Good Quality Genlock, Fades, Chromakey, Etc
Rendale 9402 SVHS £279.95
Squirrel SCSI Interface £64.95
Video Backup System + Phono cable £54.95
Backs Up Hard Drives Onto Standard VHS Videos
Video Back-up System + Scart cable £57.95
Vidi Amiga 12 AGA £64.95
Vidi 24 RT £149.95
Vidi 24 Pro RT £209.95
High Quality 24 Bit Real-Time Frame Grabber
Picasso 2 + 2Mb & TV Paint Junior £289.95
High Quality, Fast 24 Bit Graphics Card
Tabby Graphics Tablet £57.95
A5 Graphics Tablet - Great With Brilliance, Personal Paint, Etc

Databases

Datanexus NEW £24.95
Digita Datastore NEW £45.95
Digita Organiser NEW £39.95
Final Data NEW £39.95
Twist 2 NEW £89.95
GB Route Plus £31.95
Mailshot Plus £35.95
Music Librarian £22.95
Plants For All Seasons £22.95
Library of plants, preferred soil types

Utilities

DirWork 2 ..... £29.95
Disk Expander £29.95
Gigamem £47.95
GP Fax £44.95
Infonexus NEW £25.95
Termite £29.95
Full featured internet + comms package
Trap Fax £49.95
Video Back-up System Phono £54.95
Video Back-up System Scart £57.95
XCopy Pro £19.95

Directory Opus 5 - In stock now at just £49.95

Virtual Reality

Distant Suns 5.0 ..... £27.95
Vista Pro 3.0 ..... £27.95
Vista Lite £24.95
Makepath for Vista £9.95
Terraform for Vista £9.95

VRL BUNDLE PACKS

Vista,DistantSuns,Makepath+Terraform £59.95
Vista Pro or Lite,Makepath+Terraform . £39.95

Workbench Upgrades

OS 3.1 for A500/2000 ..... £83.95
Includes new Kickstart Roms and Workbench 3.1
OS 3.1 for A1200, A3000 & A4000 .. £93.95
Please specify which machine

Desktop Music

Bars&Pipes Pro v2.5 ..... £199.95
Upgrade v2 to v2.5 ..... £79.95
Internal Sounds Kit £24.99
Multimedia Kit £24.99
MusicBox A or B £24.99
Peformance Tools Kit £29.99
Power Tools Kit £29.99
Pro Studio Kit £29.95
Rules for Tools £29.99
PatchMeister £79.95
SuperJAM! 1.1+ £59.95
SyncPro SMPTE Box £151.95
Triple Play Plus £159.95
Aura 12 bit Sampler £79.95
12 bit PCMCIA sound sampler
Deluxe Music 2 ..... £69.95
Megalosound Sampler £23.95
Music X 2 ..... £74.95
Pro Midi Interface £19.95
Technosound Turbo 2 ..... £25.95

PC Emulation

PC Task 3

PC Task 3 allows you to run software designed for IBM PCs and compatibles on you Amiga ! It emulates a 80286 based PC, so you can run Windows 3.1 and applications like Microsoft Word and Excel. On an AGA Amiga you can even run SVGA screen modes !

RRP £79.95 - Emerald Price £59.95

Upgrade from v2 £34.95 - please enclose your PC Task v2 disk
Upgrade from PD version £44.95 - please enclose your disk

Paint Packages

DPaint 5
£57.95
New features include 24 bit support, multiple palette anims, camera pans, gradient fades and lots more !

Deluxe Paint 4.1 ..... £54.95
Non AGA version
Personal Paint 6.1 ..... £49.95
Latest version - now supports HAM and animations
Photogenics £49.95
Mac beater ! Hundreds of natural effects
TV Paint 2 ..... £poa
Lots of natural graphics features
TV Paint 3 ..... £599.95
Brilliance 2 ..... £45.95

Software Development

Gamesmith £79.95
Dice C Compiler NEW £98.95
Full featured C compiler - the best !
Amos Pro Compiler £24.95
Cygnus Ed Pro 3.5 ..... £59.95
DevPac 3 ..... £51.95
Hisoft BASIC 2 ..... £54.95
Intos £25.95
Hisoft Pascal £74.95

Education

ADI GCSE Maths £19.99
ADI GCSE English £19.99
ADI GCSE French £19.99
ADI Junior Reading £15.99
ADI Junior Counting £15.99
Merlin's Maths £16.99
Paint and Create £16.99
Spelling Fair £16.99
Noddy's Playtime £16.99
Noddy's Big Adventure £16.99

Finance Management

Cashbook Combo £59.99
Counting House NEW £49.95
Digita Home Office £39.95
Money Matters £34.99
Personal Finance Manager + ... £19.95
System 3E £49.99
Turbocalc 2 ..... £49.95

Video & Multimedia

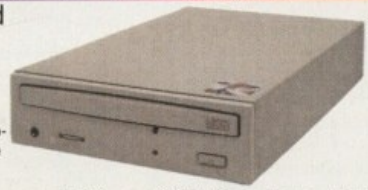
Big Alternative Scroller 2 ..... £49.95
Can Do 3 ..... £229.95
Media Point v3 ..... £249.95
Montage 24 ..... £259.95
Scala HT100 ..... £49.95
Entry level video titler
Scala MM211 *New Lower Price* £94.95
Scala MM300 *New Lower Price* 219.95
Scala MM400 ..... £249.95
Scala Echo EE100 ..... £139.95
PACKAGE DEAL - SAVE £39.95 !
Scala MM400+EE100 ..... £349.95

Amiga CD Roms

Aminet 5 CD £14.95
Desktop Video CD £13.95
Essential Utilities vol 1 CD £8.95
Giga Graphics Set CD £38.95
4 CD Pack
Grolier Encyclopedia CD £28.95
Runs on CD32 and AGA Amigas
GFX Sensation CD £18.95
Fonts, Lightwave & Imagine objects, anims etc.
Lightworks by Tobias Richter CD ... £38.95
Speccy Sensation CD £13.95
ZX Spectrum Emulator + over 500 games
Star Trek Multimedia CD £25.95
Pictures, sound files, tunes, anims etc.
Arcade Classics CD £9.95
Old faves ! Space Invaders, Centipede etc.
World of Clipart Double CD £16.95

CD Rom

Power Quad Speed CD Rom Drive
Plugs directly into PCMCIA slot and provides SCSI interface for another 6 SCSI devices !
Includes PSU, manual, Audio CD Utility, **CD32 Emulation** & Photo CD Software
£299.95
Double Speed Drive
£199.95



Connects to Syquest Drives, DAT, Scanners, Hard Disks & more

Wp & Dtp

Final Copy 2 ..... £47.95
Final Writer 3 ..... £69.95
Mini Office £37.95
Pen Pal £29.00
Pagestream 3 ..... £174.95
Wordworth 3.1SE £44.95
Wordworth 3.1 ..... £79.95

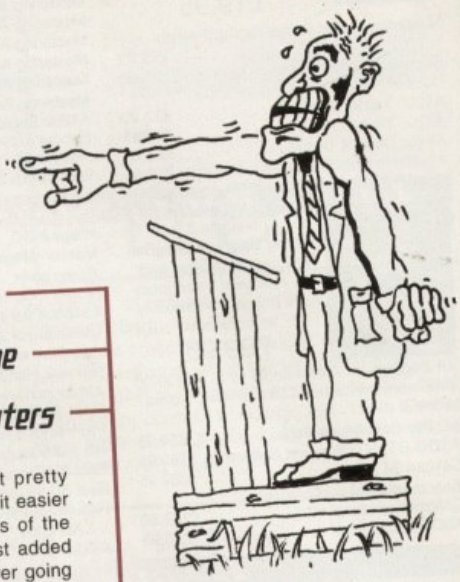
Don't forget, we sell Apple Macintosh software too !!!

Emerald - Your One Stop Productivity Shop

How to order: Cheques made payable to Emerald Creative. Allow at least 5 working days to clear.
Credit Card: Visa, Mastercard, Access, Delta, Switch. We bill your card when we despatch the order not before.
Postage & Packing: Charges within the UK are £3.50 -1st class post, usually arrives next day. Recorded post is an extra £0.55p. Next day courier is £5.50 inc. VAT within the UK mainland. Please ask for overseas pricing.
Pricng : All pricing includes VAT but not carriage. We reserve the right to change prices - you will be informed of any change when you order.
Problems: Faulty product will be replaced or repaired if returned within 30 days of purchase. We will refund if we can't repair the goods. E&OE

Tel 0181-715 8866
Fax 0181-715 8877
Rapid House, 54 Wandle Bank
London SW19 1DW

A time for Gulls



New boy Ben Vost has been thinking about the way we use our computers

A long time ago, James Watt invented the steam engine. But even in those Internet-less days of no communication between scientists, all working independently on their own projects, there was a pretender to the throne. Someone else stood up and said: "It was me, I invented the steam engine." And later, just before the turn of the century, bitter rivalry broke out between two men an ocean apart over who was first with the electric light bulb. Was it Edison? Was it Swann? Do we really care?

The point that many philosophers have made is that it was time for the steam engine, so someone invented it. It was time for the lightbulb, so that was brought into being too. It's always happening, people around the world simultaneously, and independently, working on the same notion.

NEW INVENTIONS

We've had personal computers for between 10 and 12 years now, so maybe it's time for someone to 'invent' the graphical user interface. I can hear shouts from the back saying that the scientists at Palo Alto invented it in 1976, but that's not enough. We have had 10 years of trying to get to grips with computers and we have learnt to do so, but there are going to be a whole new generation of computer users and, more importantly, programmers, who never had to struggle with Sinclair BASIC or MS-DOS, let alone Workbench 1.3.

There is always going to be a place for the sort of beardie weirdie who knows Unix like the back of his hand, but the future user of computers is going to want to access the information held within, and out of, them as easily as she can use a TV. This process has already started.

> Soon, when object-oriented programming has reached a greater level of maturity, we will be finding ourselves only buying modules to add onto our existing system without needing to buy complete applications all the time

Look at some of the software you have on your hard disk right now, then compare it to what you had, say, three years ago. Think about WordPerfect Amiga 4.1, then think about Final Writer. See what I mean? And the current Final Writer is going to seem like a dinosaur in years to come. It's not just that we want pretty interfaces, although they do make it easier to bear some of the shortcomings of the software at times, and it's not just added features; after all, how are you ever going to use all that clip art, all those fonts, all those words in the dictionary and thesaurus.

It's about making those things freely available for you to use. Now, if you choose the keyboard shortcuts – <right Amiga> Q, X, C or V – you can be pretty sure you are going to quit, cut, copy or paste. And this consistency is important. It means you will spend less time acclimatising yourself to the software, and more in actually putting it to use.

Programmers are getting used to the idea that they don't have to re-invent the wheel with each program they create. Let someone else take the strain of making loaders for different file formats, or screen gadgets for a colour palette. Soon, when object-oriented programming has reached a greater level of maturity, we will be finding ourselves only buying modules to add onto our existing system without needing to buy complete applications all the time.

We might buy a dictionary module to go with our text editor module and our page layout module, and voilà, a DTP package is born of discrete parts. It will happen – it's already started. But change should not be made just because it can be. There is a driving force for progress, but let's not get carried away with new features until we can make sure that the old ones are working in the best possible way. This way to the future, all aboard now.

AC

The AC team

EDITOR Paul Austin
DEPUTY EDITOR Darren Evans
ART EDITORS Tym Lecky, Terry Thiele
NEWS EDITOR Adam Phillips
FEATURES EDITOR Ben Vost
PRODUCTION EDITOR Judith Chapman
STAFF WRITERS Andrew Maddock, Tina Hackett, Gareth Lofthouse, Dave Cusick
ADVERTISING MANAGER Simon Lees
AD SALES Jane Normington
AD SALES Sue Horsefield
AD PRODUCTION Barbara Newall
MARKETING MANAGER Claire Mawdsley
PRODUCTION MANAGER Sandra Childs
SYSTEMS MANAGER David Stewart

CIRCULATION DIRECTOR David Wren
COMMERCIAL DIRECTOR Denise Wright
DISTRIBUTION COMAG (01895) 444055
SUBSCRIPTION 0151-357 2961

Member of the Audit Bureau of Circulations
ABC 33,546
June-Dec 1994

Published by IDG Media
Media House, Adlington Park,
Macclesfield SK10 4NP
Tel: 01625 878888
Fax: 01625 850652

CHAIRMAN Richard Hease
MANAGING DIRECTOR Ian Bloomfield

We regret Amiga Computing cannot offer technical help on a personal basis either by telephone or in writing. All reader enquiries should be submitted to the address in this panel for possible publication.

Amiga Computing is an independent publication and Commodore Business Machines Ltd are not responsible for any of the articles in this issue or for any of the opinions expressed.

©1995 IDG Media . No material may be reproduced in whole or in part without written permission. While every care is taken, the publishers cannot be held legally reponsible for any errors in articles, listings or advertisements

IDG MEDIA

For six years Amiga Computing has been the leading magazine for Amiga enthusiasts. As a key member of the IDG communications group, Amiga Computing promises to inform, educate and entertain its readers each month with the most dedicated coverage of the Amiga available.

12 issue subscription £44.99 (UK), £69.99 (EEC) £84.99 (World)
Ongoing quarterly direct debit: £10.99 (UK only)

Printed and bound by Duncan Webb Offset (Maidstone) Ltd

THE WORLD's FASTEST AMIGAS ARE ON THIS PAGE...

Figures shown in our chart are in MIPS and are taken from comparative performance tests using SysInfo

AMIGA GOLD FORMAT 95% Rating
"...buy one as soon as you get a chance"

AMIGA COMPUTING 9/10 Rating
"...Amigas can now do anything Pentiums can do" - "...the Cyberstorm represents good value for money"

NEW CYBERSTORM A4000 ACCELERATORS

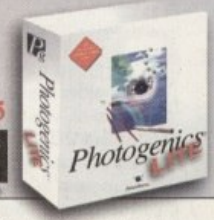
Upgrade your A4000 with the CYBERSTORM MODULAR ACCELERATOR, and get **The Worlds Fastest Amiga!** The Worlds FIRST, and still the ONLY, **68060** CPU rendered a test graphic with Imagine 2.0 in just 2.45 mins. (on a standard A4000 040/25, it took 10.34 minutes!). Options include SCSI-2 and Ethernet I/O Modules. Request your FREE 4 page technical brochure. **Cyberstorm 68040/40 or Cyberstorm 68060/50 £CALL!**

NEW... CYBERVISION 64 AMIGA 4000 GRAPHICS BOARD

For all Zorro-3 Amigas, this 64-Bit high speed graphics engine/blitter offers up to 1600 x 1200 pixels in 8-Bit colour or 1024 x 768 pixels in True 24-Bit Colour, with 2Mb of display memory (4Mb user upgradeable). Call and request our technical brochure.

Cybervision 64 £329.95

For a LIMITED PERIOD - CYBERVISION 64s ARE SUPPLIED WITH PHOTOGENICS LITE



Packaging shown is for illustration purposes only.

ORDER HOTLINE...

01-773-836781

1220/4
BLIZZARD 28MHz. 4Mb. TURBO MEMORY

The multi award-winning **1220/4 4Mb. TURBO** offers by far the best price to performance ratio of any A1200 32-Bit RAM expansion on the market. Incorporating everything that a good memory expansion should, such as a Real Time Clock, further RAM expandability, an optional FPU etc. as well as offering a Clock Speed Doubling Circuit which runs the 32-Bit FAST RAM at an amazing 28MHz. And... the 1220/4 has broken all the barriers too! Check the facts for yourself and fit the BEST Amiga 1200 Turbo Memory board around or, phone and ask for our Blizzard specification leaflet to find out more.

- Integrated 28MHz 68EC020 32-Bit RAM Clock Speed Doubler for up to 300% overall performance increase
- Factory Installed/Tested 4Mb of 32-Bit FAST RAM
- Expandable to 8Mb with Add-4 Board
- Integrated Battery Backed Real Time Clock
- Easy Trapdoor Installation
- Can be disabled in situ for full games compatibility

Voted Joint 1st Place in the Amiga Shopper Reader Awards

1220/4 Turbo	**£229.95**
32-Bit Fast RAM 28MHz 680EC20 CPU, 4Mb	
Add-4 Board (extra 4Mb for 1220/4)	**£169.95**
32-Bit Fast RAM add-on, 4Mb	
Motorola FPU	**£Call**
68882 PLCC 25/33MHz	

1230-III
BLIZZARD 40/50MHz. TURBO ACCELERATOR MEMORY

THE highest performing A1200 - 68030 Accelerator. With its rapid 40 MHz 68EC030 or 50MHz 68030 with MMU, it offers up to 500% performance increase. The **1230-III** has further options via its Fast Expansion Bus for add on Modules such as the SCSI-2 Controller. Utilising an industry standard SIMM socket, it has provision for upto a full 32Mb of auto-configuring 32-Bit FAST RAM.

- PGA FPU Socket up to 50MHz
- Instruction & Data Burst Modes
- Auto Kickstart Re-Mapping (with disable)
- Battery Backed Self Recharge RT Clock
- Easy Trapdoor Installation

Voted Joint 1st Place in the Amiga Shopper Reader Awards

1230-III Turbo	**£189.95**
40MHz 68EC030, 0Mb	
1230-III Turbo	**£229.95**
50MHz 68030 & MMU, 0Mb	
SCSI-II Module	**£89.95**
for 1230-III	
Motorola FPU	**£Call**
68882 PGA 25/30/50MHz	
4Mb SIMM RAM Expansion	**£134.95**
32-Bit, 72 pin	
LARGER SIMMS AVAILABLE	**£Call**

"...at GH, we'll look after you..."

SERVICE, SUPPORT and WARRANTIES: GH is one of Apple UK's selected Authorised Service Providers (not all Resellers have this accreditation). Our standard One Year GH Gold Warranty gives you a comprehensive backup. GH also offer a range of options for business and professional users which may be essential for systems in high dependency/constant use

BY PHONE: We'll help with any queries and when you're ready to order we accept Visa, Mastercard, Access, Switch, Connect, Delta and Lombard Creditcharge (most 'store cards' are Lombard Creditcharge and we happily accept them).

BY POST or FAX: When ordering include your name, address and preferably a contact phone number with your order requirements. If charging a credit/debit card include its number and expiry date (and issue number with Switch cards). Make Cheques (please allow 7 days clearance prior to despatch), Bankers/Building Society Drafts or Postal Orders payable to Gordon Harwood Computers

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.

EXPORT: Most items are available at TAX FREE PRICES to non EC residents & overseas UK Armed Forces Personnel (with CO's document). Please call us for confirmation of prices and carriage charges.

DELIVERY: We ship promptly & offer delivery of all orders throughout Mainland UK & most products overseas. If your order is urgent we have priority despatch options with express delivery available.

OUR OPENING TIMES ARE... Mon-Sat, 9am until 5pm

"Why not pay a visit to our Showroom where most products are on display".

We supply all Government/Educational Departments and Major PLC's and respond rapidly to your quotation requests

gordon harwood computers

the UK's favourite Amiga Dealer

GORDON HARWOOD COMPUTERS LIMITED
(Department aco/B2)
NEW STREET ALFRETON
DERBYSHIRE DE55 7BP
Telephone: 01-773-836781
Facsimile: 01-773-831040

The Cover

It's a kind

Before you begin

Before you even think of clicking on those dinky little square icons in order to extract those cool utilities on CoverDisk 2, you had better click on that big icon called Extract_Me_First. Doing this will extract the Installer file and copy it and the LHA program to your C: directory. You will need to have at least 170k free on your boot disk for these files to fit. You have been warned.

You will then be able to simply double-click on the appropriate icons, which will result in the files being extracted to your RAM disk. After they have been extracted, they can then be installed to a floppy disk or directly onto your hard disk. Remember to delete the files from RAM once you have installed them to your preferred destinations or they'll just take up valuable memory.

Also, beginners should be aware that some of the files are CLI commands which don't have icons. You must therefore ensure that you have 'Show all files' activated from the Window menu, otherwise you won't be able to see the files if you intend to copy them by dragging them to a destination.

Remember, also, that all the utilities here are accompanied by documentation files which explain the various features and functions in greater detail than can be covered in the disk pages. So, if you're having problems or simply wish to know more about these great utilities, check the documentation files

Magic User Interface

Author: Stefan Stuntz
Workbench: 2.04 or higher

Stefan Stuntz's Magic User Interface is a program which lets you edit the look of any programs that use it. Programs like AMosaic and DMS-Face can't be used without MUI, so

Using MUI Prefs, you can completely change the way your applications look

it's a good job we've got the complete registered version on this month's CoverDisk. Double-clicking on the Extract_MUI icon will result in a drawer called MUI being extracted to your RAM disk.

MUI is a large application and readers without a hard drive shouldn't even bother extracting the files. In addition, because MUI is such a large application, you will need a machine with at least 2Mb to be able to extract the archive to RAM:. If you don't have that much memory, you will need to edit the "Extract_MUI" file and change the line:

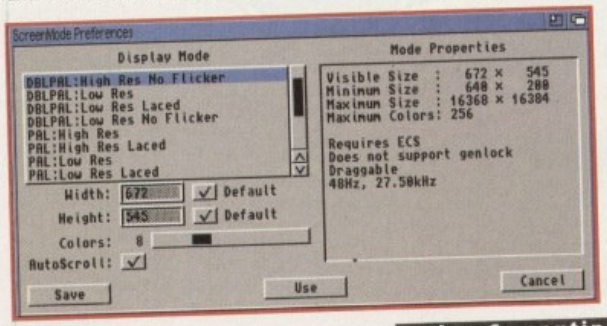
```
c:lha x MUI23AC.lha RAM:
```

to:

```
c:lha x MUI23AC.lha XXX:
```

where XXX: is whatever your hard drive partition is called.

Compare this standard Amiga-looking window with that on the opposite page



DMS-Face

Author: Øyvind Falch
Workbench: 2.04 or higher

Ever tried to use DMS? Isn't it a pain? It's even worse than trying to get LHA to work. But now there is a nice MUI GUI (don't you just love all these acronyms?) for it to make things so much simpler. DMS-Face is so user-friendly it even comes with a standard installer script.

AmosMui

Author: Paul Hickman
Workbench: 2.04 or higher

Amos Mui is a set of extensions to the extremely popular AMOS Pro BASIC language environment. Obviously, you will need to have a copy of AMOS Pro to make use of this program.

FalconMath

Author: Simon Forey
Workbench: 2.04 or higher

Just to give you a mix of MUI stuff, here's an algebraic equation editor that uses MUI. If you are the sort of egghead that actually knows what an algebraic equation is, then FalconMath is the puppy for you.

MUI Empire

Author: Karl Bellve
Workbench: 2.04 or higher

Just to prove that MUI isn't all technical, utility-type stuff, here's a strategy game completely programmed using MUI. Being a starfleet management game, there aren't any pretty graphics, but that doesn't detract from its gameplay.

MUI Screenmode

Author: Cyril Deble
Workbench: 2.04 or higher

Our Cyril's a French chap and he decided that the standard Workbench screenmode preferences editor was a bit bland and boring. So he undertook a project to revamp it and came up with this little gem. Cyril's screenmode editor is so flexible, it can even allow you to select HAM screenmodes.

Cyril says that his next conversion is going to be the Locale preferences editor, so you could say that it's today the screen, tomorrow the world...

Disks

d of magic

Utility Heaven

This month's CoverDisks are going to transform the way your Amiga Workbench looks and performs. Check out the awesome Magic User Interface and the utilities which make using your Amiga much easier

AddressManager

Author: Michael Schikora
Workbench: 2.04 or higher

AddressManager is one of the nicest address book programs available for the Amiga. With the ability to search for someone on any field and printing facilities that would not look out of place in a commercial package, AddressManager is a great addition to anybody's list of utilities.

MUI Speak

Author: Andreas Jung
Workbench: 2.04 or higher

This is a tool built with another excellent MUI package – one which, unfortunately, is too big to go onto our disks this month – called MUI Builder. MUI Builder lets you concentrate on what your interface looks like, then goes away and generates the code for that interface. MUI Builder comes with built-in support for C and E, among others, but there are external modules for the support of other languages.

MUI Speak is a replacement for the Speechtoy program on the Workbench 2.04 disks and as such requires the 'translator.library' file in libs:. Workbench versions after 2.05 don't come with this file, so you will need to get it from somewhere.

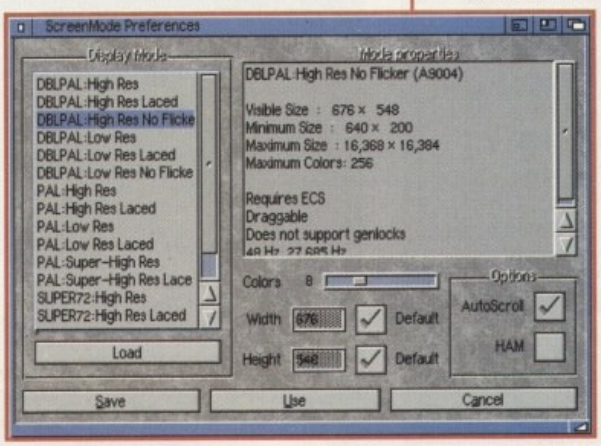
MUI Speak also comes with its own überstetzer library (übersetzer means translator in German) to make the Amiga's speech sound like a German adenoidal dalek with its head in a bucket, rather than an Australian one. Just like any other MUI package, you can change the way the interface looks to your heart's content.

MUI Env

Author: Michael Suelmann
Workbench: 2.04 or higher

MUI Env is a very useful gizmo for people who set a lot of environment variables every time they boot their machine. It lets you view your env: or envarc: directories and their sub-directories, create new variables or directories, and edit your current settings.

Spot the major difference between this Screen Prefs and the previous



Magic Menu

Author: Martin Korndörfer
Workbench: 2.04 or higher

Are you fed up with the rather boring look of Intuition's menus. Oh yes, they work perfectly well, but there's room for improvement in the aesthetics department isn't there?

Well, this is where Magic Menu steps in to dress things up a little as well as enhancing functionality too. Once installed and running, Magic Menu transforms the look and operation of the tacky white menu bar at the top of our beloved Amiga screens.

Some of the visual improvements on offer include a cool 3D look, complete with optional borders. On the functionality side, you can configure the way the menus are accessed.

As well as standard access mode – where you have to hold the right mouse button down to activate the menu, then release the right mouse button with the pointer over a menu item to select it – you also have Press once and Select modes.

Press once allows you to simply press the right mouse button once to activate the menu bar, without the need to hold it down to keep the menu bar active. Moving the mouse pointer over the various menu titles brings up the respective menu items which are also highlighted as the mouse pointer moves over them. You then simply click a menu item to select it.

Select mode brings up the menu with a single right mouse click and then requires you to actually click on each menu title to bring up the menu items.

Magic Menu also has a neat keyboard facility for accessing the menu bar and its items – useful if you find yourself suffering from a dead mouse. But Magic Menu's main feature is that it frees you from having to move the mouse to the top of the screen all the time, because Magic Menu lets you hit the right mouse button anywhere on the screen to bring up the menus.

Magic Menu is best placed in the WBStartup drawer so that it activates automatically at boot up. Once running, you should find your menu life that much classier.

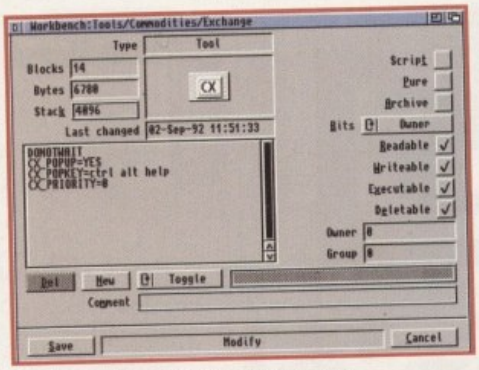
CacheFont

Author: Adam Dawes
Workbench: 2 or higher

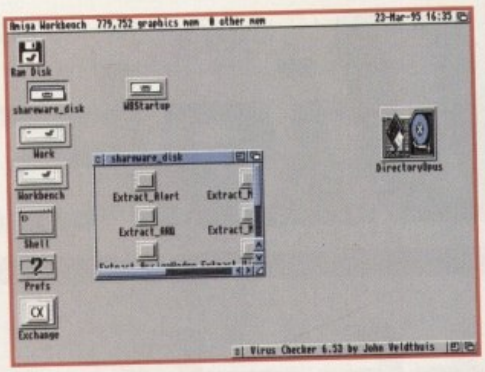
For those of you who have a healthy collection of fonts stored in the old Fonts drawer (DTP users in particular), you know how slow and irritating it is when a program has to read the fonts prior to displaying them. And if there's a lot of them, things tend to become tedious.

CacheFont injects a major speed increase into this operation by first creating a fonts list which CacheFont then refers to. Once installed, any access to the fonts is extremely quick and efficient. You will wonder how you ever did without it.

Installing CacheFont requires you to place CacheFont and MakeFontList in the C drawer. You must first run MakeFontList in order to create the font file CacheFont will use. You can then either run CacheFont manually, or place a call to it in the user-startup script in the S drawer.



SwazInfo replaces the standard Workbench Information facility with a much more powerful version featuring a drag and drop ability



Notice the time and date display at the top-right of the screen. This is provided by Title Clock

Virus Checker

Author: John Veldthuis
Workbench: 2.0 or higher

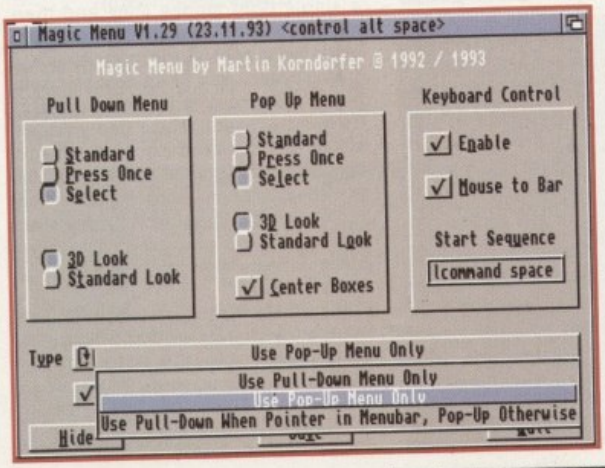
The threat of a virus is one which all computer users, both big and small, have to be aware of. These small nasty little blighters, written by equally small minded nasty little people, can find their way onto floppy disks and hard drives and do untold damage in a variety of different ways.

Of course, there are various virus killers on the market, but there are few which are as powerful and versatile as Virus Checker, including some commercially available packages. Once installed, Virus Checker searches your Amiga's memory for any dubious programs lurking in RAM. After that, Virus Checker lies in wait, keeping tabs on any disks inserted to see if they are clean – if not, Virus Checker let's you know.

Of course, virus killers are only as good as the library of virus programs they recognise. For instance, if a virus killer doesn't recognise a boot sector on a floppy disk, it will flag it as suspect. Now, this doesn't do your peace of mind any good. It may well be that the boot sector is safe and that it merely contains some code essential for the program on the disk to run, such as game disks.

However, it could be a new virus that the virus killer doesn't know about. Virus Checker gets around this by utilising an external library file of all known viruses it uses when comparing strange data found on a disk. This file is constantly being updated as new viruses are found and means you only need to get hold of the new file instead of updating the entire virus killer program.

To install Virus Checker, simply click on the InstallVC icon and follow the installation programs instructions.



This neat utility turns cycle gadgets within programs into pop-up lists for faster and easier access.

Alert Display Replacement

Author: Martin Mares
Workbench: 2.04 or higher

We've all had those dreaded guru alert messages thrown at us by our Amiga at some time or another. Unfortunately, these so-called messages displayed on our screens might as well be a hitherto unknown form of ancient hieroglyphics – they don't exactly tell you much about what went wrong.

This neat utility helps make things a little clearer by adding a little more information to the error message when it occurs. This information includes the name of the program which caused the alert, as well as a more comprehensive text description of the error.

To install the Alert Display Replacement, copy AddModule and NewAlertHook to the C drawer. Then using the CLI, enter:

```
addmodule c:newalerthook INIT
```

Arq

Author: Martin Laubach
Workbench: 2.0 or higher

Requesters. Those little windows of wisdom which appear, quite often before an unrecoverable operation such as deleting or formatting devices.

Although they do the job of asking for confirmation, they are a little irritating because the buttons, which are usually an OK or Cancel affair, have to be clicked on with the mouse.

It would be nice if they were dressed up a little and were given keyboard shortcuts for any buttons they contain, wouldn't it? Arq does just that, adding useful keyboard shortcuts with a smattering of animation to make life a little more interesting. Simply drag the Arq icon into your WBStartup drawer so it is loaded automatically.

Assign Wedge

Author: Olaf 'Olsen' Barthel
Workbench: 2.04 or higher

This neat utility is good for situations where you find yourself or a program trying to access a volume name which hasn't been assigned. Instead of the usual 'Please insert volume ??? in any drive requester', Assign Wedge is called up, giving you some extra options to choose from.

The options include Retry, which you click on if you have manually taken care of the assignment, Assign, which lets you choose a drawer to assign to the name currently shown in the requester, Mount, if the name in the requester is a device you can mount it and try again, and Deny, which tries to deny the program from calling the device again.

Just drag the program icon to your WBStartup drawer and you're away.

Cycle to menu

Author: Frederico Giannici
Workbench: 2.0 or higher

Cycle gadgets are buttons which cycle through the various items in a list. However, if you have quite a few items to choose from in the list, it can be slightly irritating to have to scroll through the entire list one at a time per mouse click to get to the item you need.

Cycle to menu changes all that by transforming the cycle gadgets into pop-up menus which display all the items at once for you to choose from when you click on

the item name. For the die hards, clicking on the actual cycle symbol makes the gadget behave in the normal way.

MultiCX

Author: Martin Berndt
Workbench: 2.0 or higher

MultiCX is a multi function commodity with lots of features and functions – too many to list here so check out the documentation. Some of the features include a Screen blanker and mouse accelerator.

MultiCX must be started from the Workbench, as CLI or shell is not supported. The majority of MultiCX's features can be configured by altering certain parameters – you can do this by selecting the MultiCX icon and selecting Information, or you can use the MultiCX Prefs utility also included on the CoverDisk and described elsewhere on these pages.

MultiCX Prefs

Author: Michael Barsoom
Workbench: 2.0 or higher

This utility complements MultiCX. Changing the parameters of some of MultiCX's functions requires altering the tooltypes. MultiCX Prefs provides a more intuitive method utilising pop-up menus and slider bars.

MultiCX Prefs needs to know where you have MultiCX stashed on your drive and you can tell it by entering MultiCXPath = <path> as a tooltype or CLI argument.

SwazInfo

Author: David Swasbrook
Workbench: 2.0 or higher

SwazInfo replaces the Amiga's standard icon information feature offering major benefits and extra features. One of the most useful extras which SwazInfo offers is an excellent drag and drop facility.

This allows you to do such things as drag icons into the icon display window to assign it, or you can drag an icon to the tooltypes window and all tooltypes associated with that icon will be loaded into the tooltypes window. There is also the handy feature of assigning a default tool to the icon using a file requester instead of having to type the program directory and name manually.

Other cool features include the ability to toggle tooltypes between active and inactive states at the click of a button, instead of having to enclose the tooltype in brackets via the keyboard. In short, this is one utility you shouldn't be without if you find yourself regularly changing tooltypes. To install SwazInfo, simply click on the Install icon.

Faulty CoverDisks

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

TIB Plc, TIB House, 11 Edward Street, Bradford, W. Yorks BD4 7BH.

Please allow 28 days for delivery

TitleClock

Author: Anders Hammarquist
Workbench: 2.0 or higher

If you want to know the time, you don't have to ask a policeman, just put TitleClock in your WBStartup drawer and you have a neat clock in the top-right corner of the screen.

TitleClock can be configured via a number of tooltypes which allow you to change various parameters such as update speed, whether the date should be shown, what format the date should be in, and many others.

Datatypes

Author: Various
Workbench: 3.0 or higher

Datatypes is a feature of Workbench 3.0 and above which provides a method of enabling the Amiga to recognise and use alien file types. For example, the Multiview utility allows you to view IFF picture files as standard (as well as other different files such as text and sound files) – however, it doesn't let you view picture files in, say, Targa format.

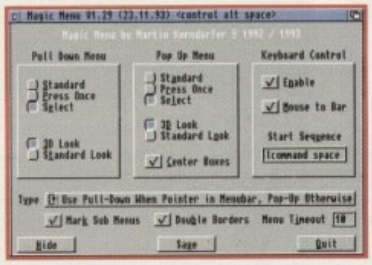
Thanks to Datatypes, it is possible to essentially tell the Amiga how to read these files by simply dragging the appropriate Targa datatype files to the datatypes drawers. The Amiga will then be able to understand Targa files.

There are a collection of datatypes for you to install. Some of them have their own install utility, which copies everything to the correct drawers for you, but some of them require you to do the copying yourself.

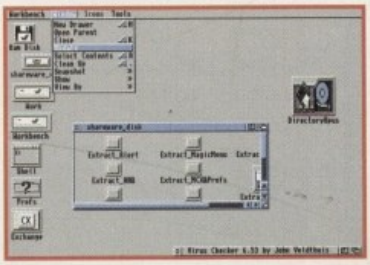
Refer to the associated documentation files for instructions on installation for such files.

Next month

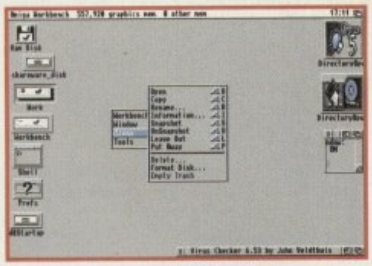
On next month's CoverDisks we have the complete Personal Paint 4 art package as well as more MUI applications. So make sure you don't miss out, – order your copy now or better still, why not subscribe and save money too?



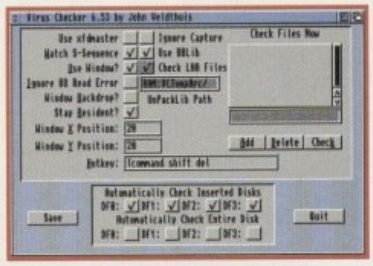
Magic Menu lets you alter the way your Amiga menus look and how they can be accessed



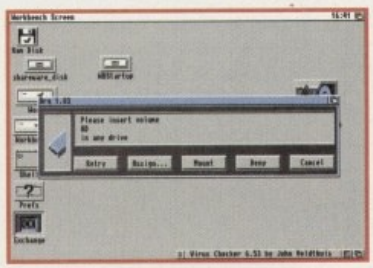
As you can see here, the Amiga menu bar has a much cooler 3D look to it



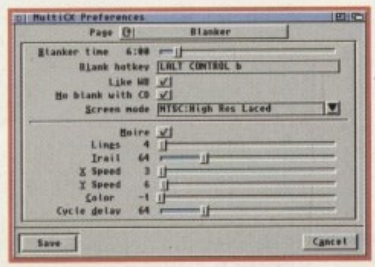
Magic Menu also provides a pop-up facility for accessing the menu from anywhere on the screen by clicking the right mouse button



No Amiga owner should be without a good virus killer and this is one of the best available



Arq makes dealing with those unassigned devices and volumes a lot less infuriating



MultiCX provides you with a host of features which can be configured easily using MultiCX Prefs shown here

IDE/SCSI 2.5"/3.5" HD

Our high quality 2.5"/3.5" IDE/SCSI hard drives come with a one year warranty. The 2.5" HD's come with cable & manual.

120MB 2.5" IDE	£139
170MB 2.5" IDE	£179
260MB 2.5" IDE	£219
350MB 2.5" IDE	£299
525MB 2.5" IDE	£589
735MB 2.5" IDE	£759
270MB 3.5" IDE/SCSI	£199
420MB 3.5" IDE/SCSI	£239
540MB 3.5" IDE/SCSI	£279
1GB 3.5" IDE/SCSI	£599
2GB 3.5" IDE/SCSI	£999

OVERDRIVE HD

External PCMCIA 3.5" IDE Hard Drive

OVERDRIVE BARE	£99
OVERDRIVE 420MB	£259

M-TEC HD

The AT-500 IDE external hard drive for the A500 comes complete with an internal ROM socket so you can switch between a 2.04 and 1.3 ROM without having to open your Amiga casing.

AT-500 BARE	£99
AT-500 420MB	£259

ACEEX MODEMS

Aceex Fax Modems feature: Full Haynes compatiblity, error detection + correction, modem cable and manuals included, NComm Telecommunications software, Auto dial, Auto answer and leased line support.

ACEEX v32 BIS 14,400 bps	£139
ACEEX v32 BIS FastFax 28,800 bps	£229
TRAPFAX Fax Modem Software	£49

Not British Telecom Approved

CHIPS/SPARES

2MB 72pin Simm	£79.95
4MB 72pin Simm	£149.95
4MB GVP Simm	£159.95
1 x 8 30pin Simm	£34.95
4 x 8 30pin Simm	£149.95
1 x 4 Static Column A3000	£50
1 x 4 DIP	£50
256 x 4 DIP	£5
1 x 1 DIP	£5
CIA	£12
POWER SUPPLIES	£Call

More spares available

SYQUEST DRIVES

A full range of Syquest, Optical and Dat Drives are available, please call.

VIDEO BACKUP 3.0

This innovative product allows you to backup your software onto a VHS cassette, so you can store up to 520MB on one four hour tape. Version 3.0 has new backup modes for Amiga's with a 68020 or higher CPU, a new user interface that also runs on the Workbench screen

VIDEO BACKUP SCART	£65
VIDEO BACKUP PHONO	£60
UPGRADE TO V3.0	£20

DISK EXPANDER

Disk Expander includes the following features:

- Can add up to 50% to your hard drive capacity
- Fast compression and decompression
- Works with all drives including SCSI, IDE, Floppies and even the RAM disk
- Reliable in tests, no data corruption
- Flexible and expandable as new compression libraries are developed
- Once installed the program is transparent to the user
- Works on any Amiga with any Kickstart

DISK EXPANDER	£25

FLOPPY EXPANDER

Floppy Expander allows you to fit about 1.5MB on a standard floppy drive and 3MB when used in conjunction with the XL Drive 1.76MB. This is achieved by compressing data 30 - 70% of its original size.

FLOPPY EXPANDER	£10

OCTOGEN SCSI-2

SCSI-2 controller card for the Amiga 1500/4000 Upgradable to 8MB of RAM.

OCTOGEN 2008	£129

TANDEM CD-DE

Connect a CD-ROM drive, Syquest 3.5" and IDE HD's to your A2000/3000/4000 Complete with cables, software and manual. ROM 2.04 or above.

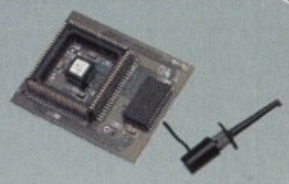
TANDEM CD-DE CARD	£69

WARP ENGINE

040 board you install directly into the CPU slot

WARP ENGINES	£POA

MEGACHIP RAM



Increase your Amiga 500/2000 chip RAM to a total of 2MB. MegaChip does this by using its own 1MB of RAM and drawing extra memory from any other RAM you have installed in your Amiga. No soldering required.

MEGACHIP RAM	£159

RAM UPGRADES

We manufacture a vast range of memory cards for all the Amiga range of computers.

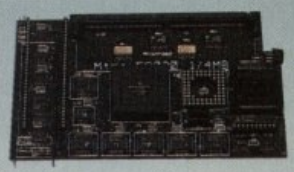
512K RAM WITH CLOCK	£24
512K RAM WITHOUT CLOCK	£19
A600 1MB RAM	£34
A500+ 1MB RAM	£29

A500 2MB RAM

A 2MB RAM board for the A500 which fits in the trap door slot.

A500 2MB RAM	£90

A500 68020



Full 68020 processor with MMU
Works with all A500's, A500+
Optional 68881/68882 (PLCC or PGA)
Up to 4MB FAST RAM
Fully auto-configuring
Supports Motorolla cache system
Supports Kickstart remapping
Disable jumper

Not Compatible with GVP hard drive

68020 A500 BARE	£99
68020 A500 4MB	£239

POWER SCANNER 4

24-bit

The award winning Power Scanner includes the following features:

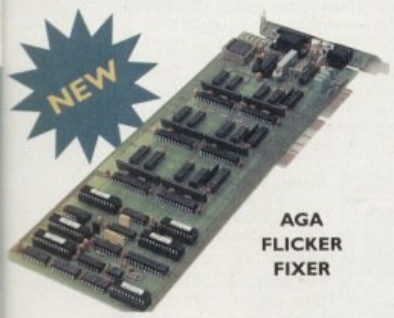
Scan in 24-bit (16.7 million colours) at upto 200DPI (all Amigas, not just AGA)*
Scan in 256 greyscales at up to 400DPI (all Amigas not justAGA)
Thru' port for printer connection
Fully supports AGA chipset
Display HAM8/24-bit images on a non-AGA Amiga (via image conversion)
Full editing facilities
Compatible with all Amigas

System Requirements
2.04 ROM or above, Minimum 1MB
Recommended 2MB or above
*Only available on Colour PowerScanner 4

POWERSCAN 4 B/W £99
POWERSCAN 4 COLOUR ...£199
OCR (when purchased with scanner) ...£20
OCR SOFTWARE £49
POWERSCAN 4 S/W ONLY £20
PC INTERFACE + COLOUR S/W £49
PC INTERFACE + B/WHITE S/W £39

AGA FLICKERFIXER

NEW



AGA FLICKER FIXER

ScanDoubler II is a full 24-bit AGA Flicker Fixer for the Amiga 4000. It automatically de-interlaces all AGA screen modes and scan-doubles non-interlaced PAL/NTSC modes to allow VGA monitors to display them. Supports VGA only, S-VGA and Multiscan monitors. Pixel sharp picture, even at 1440 horizontal resolution and has a standard 15 pin VGA type connector. Comes with composite video/S-VHS outputs.

SCANDOUBLER II £399

VGA ADAPTOR

VGA ADAPTOR £15

EPSON GT-6500

The Epson GT-6500 24-bit colour A4 flatbed scanner has output resolutions up to 1200DPI in 16.7 million colours, greyscale and line art. The GT-6500 comes with software, cables and manual.

GT-6500 POWERSCAN £599
GT-6500 IMAGE FX £689

EPSON STYLUS

SPECIAL OFFER
Epson Stylus Inkjet, Data Cable
10 Sheets of 720DPI Paper
10 Sheets of 320DPI Paper
Studio II Software £489

EPSON LQ-300 24-PIN £189
LQ-300 COLOUR KIT £39
STUDIO II £49

A4000 TOWER

The A4000 Tower comes complete with 6 x 5.25" drive bays, 5 x 3.5" drive bays, real time clock, 7 x Zorro slots, 5 x PC slots and a 230 watt power supply unit.

TOWER A4000 **.£349**
ZORRO PCB **£149.95**

HISOFT PRODUCTS

SQUIRREL SCSI INTERFACE Connect SCSI perphierals **£59.95**
AURA 12/16-bit direct-to-disk sampler A600/1200 **£79.95**
MEGALOSOUND 8-bit direct- to -disk sampler, all Amiga's **.£29.95**
VIDEOMASTER AGA Realtime video with sound + stills A600/1200**£59.95**
VIDEOMASTER AGA RGB VideoMaster AGA plus ColourMaster **..£99.95**
VIDEOMASTER Realtime video with sound + stills A500/A500+**£52.95**
VIDEOMASTER RGB VideoMaster plus ColourMaster A500/A500+ **£89.95**
COLOURMASTER RGB splitter for VideoMaster **£52.95**
PROMIDI INTERFACE Amiga Midi interface **£19.95**

WORKBENCH 3.1 A500/A2000 .....**£85**
WORKBENCH 3.1 A3000/A4000 .....**£95**
2.1 ENHANCER Software **£49**
ROM SHARE DEVICE **£19**
2.04 ROM CHIP **£25**

POWER

TELEPHONE **01234 273000**

PHONE ORDERS: We accept most major credit cards and are happy to help you with any queries.

POST: Ordering by cheque/PO please make them payable to **Power Computing Ltd** and specify which delivery is required.

WARRANTY: All Power products come with a 12 month warranty unless otherwise specified.

SUPPORT: Help is on hand with a full Technical Backup service which is provided for Power Customers.

PRICES: All prices listed are for month of publication only, please call to confirm prices before ordering.

EXPORT: Most items are available at **Tax Free Prices** to non-EC residents. Call to confirm prices. BFPO orders welcome.

When ordering from other Power adverts please use this order form

Name

Address

PostCode

Telephone

System Owned

Description

Total Amount (inc. delivery) £ _____

Credit Card No.

Expiry Date **Signature**

Delivery 2 - 3 Days £2.50 ☐ **Next Day £5** ☐ **Sat £10** ☐

Minimum Delivery £2.50 **Allow up to 7 days for cheques to clear**

POWER COMPUTING LTD
44a/b Stanley St. Bedford MK41 7RW
Tel **01234 273000** Fax **01234 352207**

Trade and Educational orders welcome - Worldwide distribution available

All prices include VAT. Specifications and prices are subject to change without notice, all trademarks are acknowledged. All orders in writing or by telephone will be accepted only subject to our terms and conditions of trade, copies of which are available free of charge on request.

CRAZY DISK PRICES!! GUARANTEED

GREY-TRONICS LTD

LOWEST PRICES

BEST SERVICE

RAPID DELIVERY

SALES FREE CALL 0500 737 800

SALES HELPLINE 0181 686 9973 / 0181 781 1551

DISKS DISKS DISKS + LOCKABLE BOXES

100% CERTIFIED ERROR FREE

	Grade A+	Grade B	
50 3.5" DS/DD	£15.99	£15.49 + 100 cap lockable box	Add £4.00
100 3.5" DS/DD	£24.99	£24.49 + 100 cap lockable box	Add £4.00
150 3.5" DS/DD	£38.99	£38.49 + 2 x 100 lockable box	Add £8.00
200 3.5" DS/DD	£48.99	£47.99 + 2 x 100 lockable box	Add £8.00
300 3.5" DS/DD	£73.99	£69.00 + 3 x 100 lockable box	Add £12.00
400 3.5" DS/DD	£98.99	£92.00 + 4 x 100 lockable box	Add £16.00
500 3.5" DS/DD	£123.99	£110.00 + 5 x 100 lockable box	Add £17.50
1000 3.5" DS/DD	£229.99	£205.00 + 10 x 100 lockable box	Add £30.00

FREE LABELS + FREE DELIVERY BY PARCEL FORCE

£194.99 AMIGA CD32

7 Games Pack - Free delivery

SX1 Modular Expansion	£191.99
Keyboard for CD32	£36.99
Disk Drive for CD32	£48.99
CD32 to Amiga 1200 inc. software	£29.99
CD32 to Scart	£11.99
Competition Pro Pad	£15.99
Commodore Original Pad	£8.99
CD32 HiFi Lead	£11.99

Add £2 p&p for accessories

Call for Accessories

3.5" DELUXE LOCKABLE BOXES

50 Capacity	£4.05
100 Capacity	£4.99

Add £2.00 p&p

3.5" STACKABLE BOXES

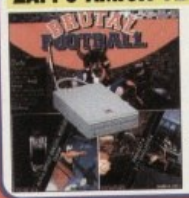
100 Cap drawer	£9.99
80 Cap Banx Boxes	£9.99

FUSION VIDEO GENLOCK

It is a high specification video genlock that is ideal for both the first time user (for adding titles, graphics & effects to home movies) and the semi professional user (wedding videos, corporate presentations...). **FREE Scala HJ100** (enables you to add special effects and overlay text on to your video).

£98

ZAPPO AMIGA 1200 CD ROM DRIVE



★ With 5 games: Brutal Football, Alien Breed, Qwak, Project X, F17 Challenge

We understand that some non standard Accelerator boards may cause problems when using the Zappo CD ROM. Please confirm compatibility at the time of order as Greytronics cannot accept responsibility for this problem

£189.99

INKJET CARTRIDGES & REFILLS

HP Deskjet Black Dual Capacity Cartridge	£22.99
HP Deskjet Black Dual Capacity Refill	£15.99
HP Deskjet 500C/560C Colour Cartridges	£25.99
HP Deskjet 500C/560C Colour Refill	£16.99
Canon BJ 10/200 Black ink Cartridges	£16.99
Canon BJ 10/200 Black ink Refill	£9.99

ADD £2 FOR DELIVERY

TOP QUALITY RIBBONS

	Black Branded	Black Compatible	Colour
Panasonic KXP1124/1123/1180/1080	8.50	3.30	N/A
Panasonic 2123/2180/2135	8.15	4.00	15.45
Citizen 120D/Swift 9/24 Swift 90/200	N/A	2.70	13.60
Star LC10/20	N/A	2.95	10.99
Star LC200	N/A	3.50	12.30
Star LC 2410/24200	N/A	3.50	12.50

ADD £2 FOR DELIVERY

HARD DRIVES

ZAPPO SMART STOR HARD DISK

Provides games and data portability to A600/A1200.

260Mb £204.99 540Mb £269.99

INTERNAL 2.5" + CABLE + SOFTWARE

80Mb 2.5"	£89.99	210Mb	£174.99
130Mb 2.5"	£124.99	235Mb	£174.99
170Mb 2.5"	£139.99	250Mb	£194.99

AMITEK HAWK RAM BOARD

2Mb Ram	£127	Alternative	£120
4Mb Ram	£187	Alternative	£180

FREE DELIVERY

AMIGA CABLES

Amiga to TV Scart	£10.99
Amiga to Sony TV	£10.99
Amiga to Amiga	£10.99
Modulator overhang lead 23M/23F	£11.99
Joystick Splitters	£5.99
Automatic Mouse/Joystick cable	£13.99
Joystick Extension Lead 10ft	£5.99
Printer Lead	£4.00

DUST COVERS

Amiga 1200/500/500P/600	£4.00
Commodore/Philips monitors	£4.00
Star/Citizen/Panasonic Printers	£4.00

ACCESSORIES

Amiga Disk Drives (Amitek/Zappo)	£54.99
Amiga Mouse (top quality)	£11.50
Internal Drives A500/A500+/A600/A1200	£34/£44
TV Modulator (2yrs warranty)	£34
Deluxe Mouse Mat	£1.99
1000 Labels	£6.99
3.5" Disk head Cleaner	£1.99
Python 1M Joystick	£8.75
Maverick 1M Joystick	£10.99

ADD £2 FOR DELIVERY

PRINTERS

NEW

PANASONIC 2135

24 PIN COLOUR

£159.99

All printers free lead & delivery

DOT MATRIX 9 PIN	
Panasonic 1150 9 pin mono	£114.99
Star LC100 9 pin colour	£124.99
DOT MATRIX 24 PIN	
PANASONIC 2135 24 pin Colour inc. sheet feeder	£159.99
Citizen ABC 24 pin colour	£146.99
Citizen Swift 200 24 pin colour	£179.99
Star LC 24 pin colour inc. sheet feed	£149.99
NEC P2Q 24 pin mono	£124.99
INKJET – DESKTOP & PORTABLE	
Citizen Projet IIC colour inkjet	£249.99
Hewlett Packard 320 colour inkjet	£249.99
Hewlett Packard 320 mono + sheet feed	£245.99
Hewlett Packard 540 mono inkjet	£264.99
Hewlett Packard 540 colour inkjet	£289.99
Hewlett Packard 560 colour inkjet	£399.99
Hewlett Packard 660 colour inkjet	£429.99
Canon BJ30 mono inc. sheet feed	£214.99
Canon BJ200 mono ink et	£229.99
Canon BJ4000 colour inkjet	£304.99

Add £12.50 for (Ribbon, Dot Matrix only) dust cover, printer stand, 500 A4 paper when purchased with printer

MONITORS

SPECIAL OFFER

Amitek Monitor

£189.99

WITH TILT AND SWIVEL STAND

Microvitec 1438 (Free speakers)	£279.99
Philips 8833/II	£215.00
Sharp TV/Monitor	£164.99

HOW TO FIND US

ALL PRICES INCLUDE VAT & DELIVERY (unless otherwise stated). Delivery within 3 days (UK MAINLAND ONLY).
ADD £8.00 FOR NEXT DAY DELIVERY CALL OR SEND CHEQUES/POSTAL ORDERS TO:

GREY-TRONICS LTD, UNIT 1015 WHITGIFT CENTRE, CROYDON, SURREY CR0 1UU

SALES HELPLINE: 0181-686 9973 Mail order prices only FAX: 0181-686 9974

All offers subject to availability. E&OE. Prices/Pack details may change without notice.
Please allow 6 working days for cheques to clear.

U.K. & INTERNATIONAL DELIVERY SERVICES – (BFPO ORDERS WELCOME + SURCHARGE)

LAND AIR SEA

Judgement day

Dan Stets reports from New York about the date we'd all being waiting for – the day Commodore was finally bought

David Pleasance looked glum. The bidding for the remains of Commodore International Ltd. had not even begun, but the management team from Commodore Business Machines UK was throwing in the towel.

"We can't compete with Escom and Dell," said Pleasance. "We are going to try to settle with whoever wins."

Commodore, once a world leader in the production of home computers, had been reduced to corporate corpse. Circling in those law offices were small groups of men in dark suits, picking at the remains. They were hoping to revive a pulse – the company's name which once stood for innovation and quality at prices affordable to the average consumer.

For months there had been speculation about who would wind up with Commodore and what they would pay. Commodore's UK subsidiary had been among the most prominent suitors, as had Creative Equipment International of Miami, the largest Commodore distributor in North America. Other names emerged and faded. Amstrad, Philips, Samsung. Estimates of the sales price ran to more than $20 million. The company's American creditors, owed more than $100 million, were keen to get as much back as possible.

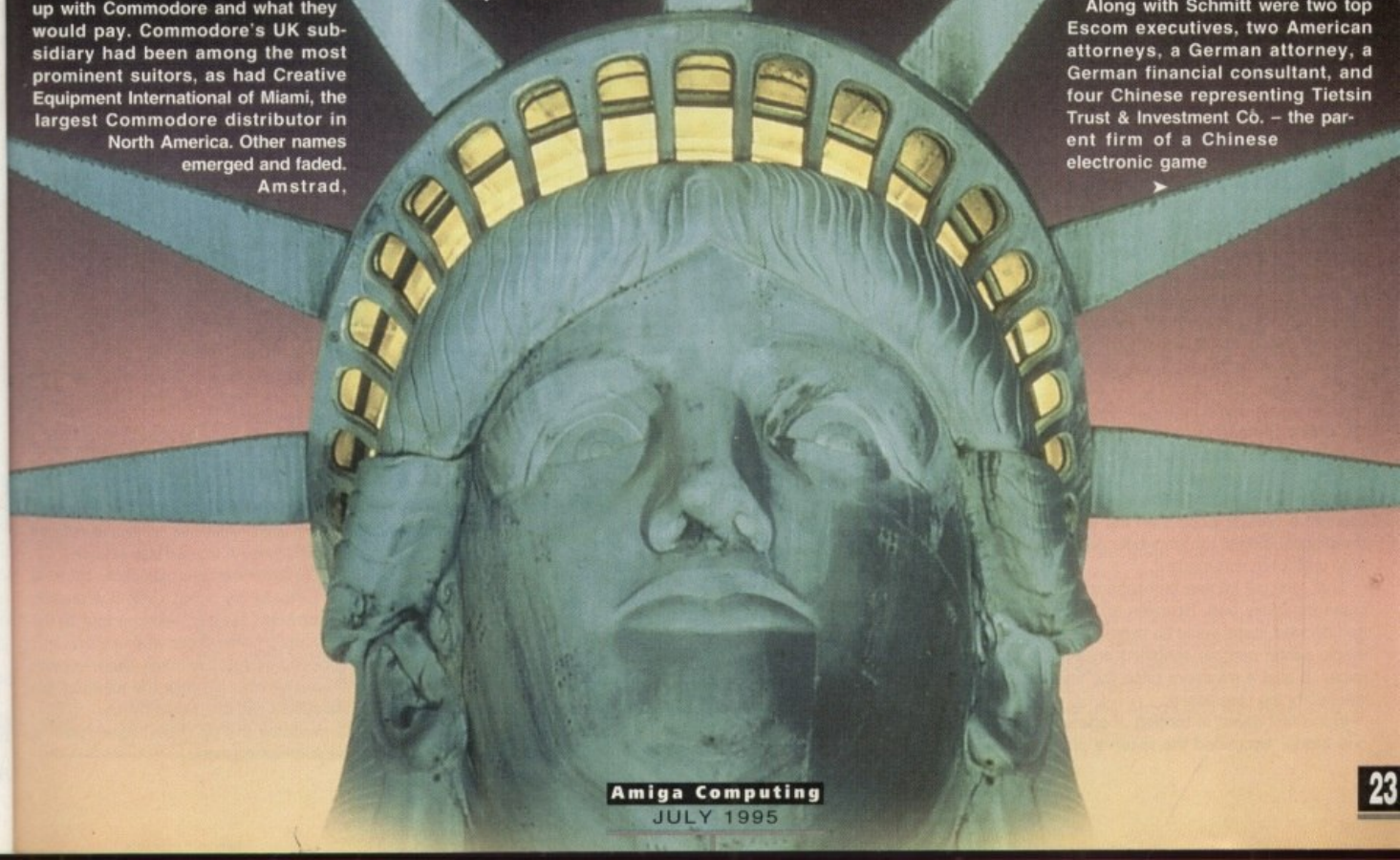
The American creditor had resisted allowing the bankruptcy to go ahead in the Bahamas as they were sceptical that Bahamian law would protect their interests. After months of bickering, a joint approach was agreed upon, allowing a blend of US and Bahamian law.

The Bahamian liquidators would sign a sales agreement with one potential buyer and then an auction would be held to convince American creditors they had got the best price. The first buyer would be a stalking horse. It was assumed the first price would be no more than an opening bid. Others would surely top it.

Escom AG, Germany's second largest computer company, became the stalking horse. The company, which had offered $12 million for Commodore in September, agreed six months later to pay only $5 million, in addition to $1.6 million – already paid to a German bankruptcy trustee for the right to use the Commodore trademark in Germany, one of Commodore's best markets. As events unfolded in New York on 20 April, it was clear the Escom offer was worth much less – only $3.5 million for the company's core assets. There was another $500,000 in the price for the UK assets and $1 million for the manufacturing inventory in the Philippines, but the Bahamian liquidators were not in a position to guarantee delivery of either of those. Jurisdiction was claimed by a Dutch liquidator conducting his own proceedings.

Escom came to the auction with a small army led by company president Manfred Schmitt, who owns 51 percent of the firm's assets. Schmitt is a tall, lean, sandy-haired, boyish but stern looking 44-year-old. He was in a white shirt, silvery tie, and a black suit so well tailored it seemed he might have been born in it and it grew with him.

Along with Schmitt were two top Escom executives, two American attorneys, a German attorney, a German financial consultant, and four Chinese representing Tietsin Trust & Investment Co. – the parent firm of a Chinese electronic game ➤



company. If Escom were successful in the bidding, the Chinese had agreed to build all the Commodore products at a factory outside Beijing.

The UK effort was represented by Pleasance and the subsidiary's other managing partner, Colin Proudfoot. Alex Amor, president of Creative Equipment, arrived with a tall, dark-haired female assistant.

As the hour approached for the auction to begin, the dark suits which had been pacing the corridors crowded at the one long table and in chairs around a conference room. The Tientsin team had been seated for an hour. Amor and his assistant had a place at the table.

Next to Amor was a new figure in the drama, Dalton Kaye, Dell Computer Co.'s vice president and treasurer. Dell, a Texas maker of IBM-compatible computers, were suddenly interested in Commodore, but Kaye never would spell out just what the interest was. It was clear Dell were allied with Amor, who had tried for months to get IBM to back him, because he wanted to salvage his efforts with another American computer company.

Also around the table were representatives of several small and obscure American technology companies, but about half the places were taken by lawyers representing Commodore creditors and the liquidators, as well as the lead liquidator, Franklyn R Wilson, an accountant for Deloitte & Touche, who in the midst of the liquidation proceedings had set up his own firm, F R Wilson and Co.

There were more than 65 people in the room in all, a standing room crowd. Incongruously, among those left standing were Schmitt and most of the Escom team.

STARTING POINT

The proceedings were supposed to begin at 10 am. As lead lawyer for the liquidators, William J Rochelle III, the pin-striped essence of an American preppy earning at least six-figures a year, opened the meeting, asking for names and explaining the process.

Proudfoot asked to speak. He said Commodore UK was out of the bidding, but that the equity of the UK subsidiary was up for sale. He promised there would be tax advantages for whoever bought the concern.

Then the problems began. Rochelle and Steven Richmond, lawyer for the creditors, had set up a bidding process the likes of which no one had ever heard of, and the details of which had not been contained in the announcement of the auction.

The auction would be held in two parts, with the entire company – or at least that part of Commodore the liquidators could deliver – put to the bidding process first. Then the parts would be auctioned off separately. If the parts brought a greater price than the whole, then the highest bidder for the whole could up the anté until a winner emerged.

That was all known beforehand, but then came the tricky part. Rochelle and Richmond had decided there would be 'a reserve price,' a magic secret number scribbled on a piece of paper. It was a minimum price the liquidators wanted for the core assets.

In the first round of bidding, if one and only one bidder exceeded the reserve price, that bidder would be the winner of all the assets. The idea was to pump up the price on the first round. If more than one bidder exceeded the reserve price, then they – and only they – would be allowed to bid in the next round.

> Even before the court reconvened, Amor announced his defeat. "I guess we'll sell flowers" he said. His support for Dell had earned the animosity of the Escom representatives

Founder of Escom, Manfred Schmitt told Frankyln Wilson, the liquidator after the first day: "It was unfair what you did here."

Escom would have to submit a bid, in effect bidding against itself, to ensure it stayed in the competition to the end. Carlene Gatting, lawyer for Escom, objected. She and Richmond, a burly Boston lawyer, squabbled on several points of procedure. Escom reserved the right to object to the whole process.

After three hours, Rochelle finally managed to hand out bidding forms, single pieces of paper calling for two numbers – one price for the core assets and another for everything else. Representatives of seven firms raised their hands requesting forms.

A period of muttering and scribbling ensued. There was a break for lunch, and then at 2pm Rochelle collected the forms. To his obvious consternation, only three firms returned bids. The liquidator, Wilson, began to look nervous.

The bidders were Escom, Dell and an obscure Commodore distributor from California, Computer Connection. There was then another break as the liquidator and lawyers evaluated the bids.

A shaken Rochelle announced the results. Computer Connection's bid was invalid because it was not accompanied by the required $1 million deposit. Dell's bid also was invalid because it had been conditional – the conditions were not then specified. Escom seemed to be the winner with its original proposal, $3.5 million for the core assets.

There was another pause as the lawyers met with Kaye of Dell to discuss his conditions. Finally, Rochelle had to declare Escom winner of the auction. No one wanted to bid separately for Commodore's parts.

In a bit of gallow's humour, Rochelle joked that he had never seen so many people show up for an auction and prepared to pay so little.

Schmitt, who had been quiet throughout the day, had one comment for Wilson as he left the conference room: "It was unfair what you did here." But the young German had not yet seen the worst of it. As the room emptied, Wilson was already talking with Kaye. And then the lawyers began talking to him.

As Wilson would describe it later, the real auction had just begun. The meetings with Kaye lasted until just before midnight when Dell finally agreed to pay $15 million for Commodore, including $13 million for the core assets, another $1 million for Dutch and UK assets, and $1 million for the Philippines inventory.

A hearing to approve the sale had been set for the next morning in a US Bankruptcy Court down in Manhattan's financial district – it was clear something was afoot. The Escom troops, who had managed at least faint smiles after the auction, were stern once again.

Richmond asked Judge James L Garrity Jr. for permission to speak. He announced that the creditors would oppose the sale to Escom at the original offer price, which he called "shockingly low, grossly inadequate."

He said a better offer was on the table from Dell, with a condition that was acceptable to the creditors. Dell wanted a month to evaluate Commodore's assets and had agreed to pay a $1 million non-refundable deposit to buy that time.

More than an hour of debate followed. The issue was whether the judge had the right to reject the price produced at the auction. But Richmond had offered an alternative. The creditors would drop their objections if Escom would substantially up its bid for the core assets.

An hour-long lunch break was called. It stretched to two hours. The Escom group felt tricked, and they suspected a conspiracy aimed at driving up the price. Their lawyers assured them that such a thing was illegal, and therefore impossible, in an American court.

Neither Schmitt nor the rest of the Germans were really convinced. But they were stuck. They had big plans for Commodore. Resumed manufacturing of all Commodore products in China; manufacture of IBM-compatibles that would be sold under the Commodore name in European department stores; and a new PowerPC, an Apple clone, for the European market.

One of the Escom team explained the problem. Schmitt didn't really understand Commodore or its products all that well. He was being driven along by former Commodore employees who were now part of his management team, such as Bernard van Tienen, a former Commodore VP who was in charge of world-wide distribution for Escom. These former Commodore troops, more than 100 in all, wanted the Commodore assets badly.

Schmitt would have to take a leap of faith. He would have to spend more money for the assets and then be left with less money for the serious business ahead, an expensive marketing program to polish Commodore's tarnished image.

He decided to take the chance, agreeing to up Escom's bid for the core assets to $10 million – an increase of $6.5 million. Richmond, really not sure whether the creditors would ever see Dell's $15 million, quickly accepted.

Even before the court reconvened, Amor announced his defeat. He had backed a loser. "I guess we'll sell flowers," he said. His support for Dell had earned the animosity of the Escom representatives, who had refused to talk with him over the two-day auction.

The UK team was in a decidedly different position. Pleasance hadn't even bothered to attend the court hearing, taking a tour of the city instead. But Proudfoot was in there until the very end. He quickly made plans to meet with Van Tienen to discuss the future of the UK subsidiary and its 22 employees.

He predicted the UK team would have "a good future" with Escom.

About time too...

We ask the winner and losers after that fateful day about their views and plans for the future. Adam Phillips reports

On the eyes of everyday business, the Commodore story is a mere blip of insignificance as yet another company that bit the bullet had a wretched, strung out liquidation process. To the people who care, though, the recent buyout now means that one of the computer industry's most popular machines has a chance to make its presence felt in the international scene as it has in the past.

What follows are a series of interviews with, and details on, some of the key players over the last year. Whether winners or losers, most have had to put up with constant setbacks and delays along the road to keeping the Amiga alive and kicking.

The victor - Escom

After dropping out of the spotlight a few months ago and letting CEI and Commodore UK grab the headlines with their fighting talk, Escom produced the trump card on 20 April, buying out Commodore's intellectual properties, technologies, trademarks and patents.

Bernard van Tienen, an ex-vice president of Commodore and now managing director of Escom Holland, commented on the auction and their philosophy: "We are a company of action – we do things, we don't sit around and talk about them... as for the auctioning process, it's very different to what we're used to in Europe, but I think at the end of the day everyone came out of the proceedings happy with the way it had gone."

While the Amiga industry and users breath a sigh of relief that the business of bankruptcy is over, the previously-felt anxiety has been replaced by a mixture of anticipation of better things and a few niggling worries – Escom may have a money pit the size of the Bundersbank, but what are they going to do to that darling of the computer industry, the Amiga. To quell any fears, or even worse, the rumour mill, Escom have taken the wise step of laying out a general plan for the future use of the Commodore trademark and assorted technologies. The most immediate question on everyone's lips is the production of new Amigas – Escom have confirmed that they will be producing 600s, 1200s and 4000s again within the next three months or, by the very latest, October (see late breaking news story for more details). Not only will Escom's 255 shops sell the Amiga, but any independent retailers are welcome to step back into selling the technology. The CD32 will be reappearing and Escom's Dr Wirsing, head of PR, has confirmed that there are plans for a 64-bit version of the console.

One surprise move that could drag money out of wallets as quickly as the Spaniards trawl fish from the sea is the news that the C64 will go back into production to be sold into the Chinese and East European markets. While the Western world crave for money-hungry Pentiums and Alpha Dec machines, China is a technological wilderness awaiting the arrival of an inexpensive computer.

Escom – the successful buyer of Commodore's intellectual properties, technologies, trademarks and patents. Founded in 1987 by Manfred Schmitt, it's the second largest European PC manufacturer. With a turnover of over $500 million a year and 750 stores across Europe, Escom are in a prime position to launch an Amiga comeback

CHINESE CREDENTIALS

The country is also playing a vital part in producing the Amiga. Chinese firm, Tianjin Family-Used Multimedia, has won the licence from Escom to produce and market the Amiga platform. Its credentials include being the largest producer of 16-bit games machines in China, with a market share of 80 per cent, and have an installed user base of one million consoles.

As for the Far East and US markets, Escom are currently in negotiations with major distributors for the Commodore licenses.

The other main financial magnet that pulled Escom into parting with its money, other than Commodore's established name, is the Amiga's multimedia capabilities. The company sees the machine as a key technology for private users in the future of the multimedia industry. To further their plans for the Amiga, the firm have aims to ➤

Escom currently have an on-line service on the Web for their German customers. An English translation should be appearing soon. Take a look at the sight by typing in: http://www.veronica.nl/escom/

integrate the technology of the machine with the PC by producing PC cards that emulate the multimedia functions of the Amiga, such as audio and video. To add to this, Escom are also planning an Amiga TV set-top box that they hope will form the basis for interactive television.

This plan has added muscle, as one of the major shareholders in the German-based company wants to make a move into the interactive television market – with Escom's wealth, it could be a force to make the Murdoch's of this world look over their shoulder while they squabble for the rights of Channel 5.

The impression that one gets from the firm is that they are considering anything at the moment – Power PCs and Macs with the Commodore logo slapped on them are both on the cards.

Escom's Bernard van Tienen is eager to point out that they are open to all ideas from people who know the Amiga industry inside out. Indeed, any fears that third-party hardware and software may be a problem have been quashed: "We're very open to third-party licensing" commented Tienan. "We see ourselves as a very open company"

EARLY NEGOTIATIONS

The firm are well aware that there are many loyal developers, public domain programmers and consumers – perhaps as a sign of Escom's commitment to the platform, they are already negotiating with Commodore ex-employees to bring them back on board. In fact, with an estimated 100 Commodore ex-employees working for Escom already, there's a real Amiga family buried away behind the previously PC-only company.

Support for consumers will hopefully be placed high on their agenda – they already have a homepage on the Internet for their German customers, and Tienen told *Amiga Computing* that this will be resurfacing in English at some point in the future, along with a possible magazine based round Escom's products and services.

With all this seemingly good news, the only remaining hurdle is the residual stock in the Philippines which is being held by the government. Rumour has it that it can only be sold to Escom, and industry insiders estimate that the inventory will go for $1 million at some point in the near future.

More customer support comes in the shape of a magazine detailing Escom's products and services

Escom's headquarters based in Germany. Escom UK are based in Irvine, Scotland and can be reached on 01294 222600

...and the casualties of corporate war

Ask many a magazine PC critic to name four top PC manufacturers and Dell are usually placed somewhere in the list. The company has been selling PC clones for several years and made $8 billion in sales in 1994.

Dell after the auction: Still interested in buying certain patents from the Escom-owned Commodore portfolio

When their bid came out of the blue on 20 April, there were plenty of surprised people – why had they done it? Michelle Moore, vice president of communications for Dell in the US, clarified matters for *Amiga Computing* – but not by much. "It actually came up quite suddenly here also... we had just heard about the auction and we saw an opportunity. We had a late breaking review of some of Commodore's intellectual properties and decided that while we weren't interested in the company per se, we possibly would be interested in acquiring some of its patents."

Which patents they were interested in was not revealed but, despite Escom's success, it would appear that Dell are now considering approaching the German-based company. "We are still interested in their patents portfolio and possibly acquiring part of that. Buying from Escom is a possibility and we're exploring our options in that area."

Despite Escom beating Dell to the jackpot, we may well see the Stateside company producing some Amiga-related products in the future. It's interesting to see how a machine that is regularly ridiculed by the PC business has managed to attract quite so much attention on a global scale – it can only be a good sign.

CEI

One of the most active bidders and main competitors to Commodore UK over the last year has been Creative Equipment International, based in Miami. Headed by Alex Amor, the company first came into the liquidating limelight when announcing it had a silent partner that would turn the Amiga into a household name – that company was IBM. Unfortunately for Amor this fell through, so CEI had to arrive at the auction day with only its own financing.

Amor is stoical about the day: "Obviously we're a little disappointed we were not successful, but it was a procedure that was agreed upon and it was carried forward and will move on... I believe that based on the procedures and what the judge decided, Escom have rightly got the technology."

PARTNERSHIPS

One of the surprise moves on the day was the hasty alliance drawn up with Dell: "Our relationship happened two to three weeks before the actual auction, and Dell was very aggressive and looked like a good partner to move the Amiga technology forward." Amor commented. "They came to the auction independently of us and it was decided that it was best to join efforts at that point in time."

It would seem, though, that, like Dell, Escom's success has ultimately put CEI in a place to perhaps approach the German company at some point in the future for potential licensing: "At this particular juncture, the ball is in Escom's court – obviously, we understand where the Amiga needs to go and we'll be interested in moving the Amiga forward and the Amiga technology forward."

Amor continued: "We are standing by to see what Escom is going to do with the technology – if their intentions are to really make C64s in China and use the Commodore name, they might have intentions to move forward with the Amiga technology. If they don't, obviously we would like the opportunity to do that."

Is he glad the whole thing's over? "Oh, no question about it – absolutely. Now we need a few answers, and Escom hold the key to those answers and the Amiga can move back to where it rightfully belongs." And does he have hope for the machine in the future? "Absolutely."

While Amor remains upbeat, the friction caused between himself and Escom over the partnership with Dell could cause problems – Amor may well have his work cut out.

On their way back

Other than the C64 which is only for the East European markets, the 600, 1200 and 4000 will all be resurfacing internationally by August, or the very latest in October

Commodore UK MBO

Perhaps the biggest surprise, and some would say disappointment, was the withdrawing of Commodore UK from the auction on 20 April. After months of positivity from the ever-optimistic mouth of David Pleasance, MD of the UK subsidiary, the company appeared to put its tail between its legs and scurry out of the bidding process, claiming they lacked the financial muscle to make a viable bid the night before.

Pleasance is happy to explain the full circumstances of this decision. "Three days before the auction, there was news that the other bidders had more money to bid with than our entire working capital. It was an agonising decision – one brought about on behalf of the staff."

It transpires that Pleasance and Colin Proudfoot, the other half of the joint managing director team, didn't want to put their employee's jobs at risk by bidding. Pleasance believes that by placing such a bid, he would have alienated Commodore UK from Escom and any future negotiations may well have been affected – some would say that's exactly what CEI have done.

In case you're wondering, Escom don't own Commodore UK at present – the UK subsidiary was specially excluded from the contracts drawn up by the liquidators because Escom was uncertain whether they would want C=UK as an ongoing concern. Because of this, both Pleasance and Proudfoot have made two trips to Germany to discuss their potential future in the new company set-up. According to Pleasance, he is very hopeful that an arrangement will be found – he and Proudfoot have created a plan for Escom that he feels is a great opportunity for the Amiga, and shows that C=UK could be a valuable asset.

While Commodore UK backed out of the auction, Colin Proudfoot, joint MD of the company, commented that the UK team have "a good future" with Escom

David Pleasance, MD of C=UK: Currently in talks with Escom concerning the future of the UK-based Commodore subsidiary

NEGATIVE FEELINGS

While they have their plans set out for the immediate future, Pleasance is well aware of the negative feelings coming from the Amiga community who were hoping that Amiga International, the proposed title for Pleasance and co's new company, would become a UK-based reality.

"We know that certain parties are disappointed that we just gave up – they feel let down, but I believe they will be more than happy with the outcome eventually" commented Pleasance.

On the subject of Escom itself, he only has kind words for them: "They're the fastest growing PC company in Europe and their plans for Escom UK are very aggressive – 100 stores are being opened on 11th May."

He continues: "The Amiga user base knows that somebody with tremendous resources has taken the Amiga on board and are committed to the long-term development of the machine."

With the conclusion of this chapter in Commodore's chequered history, is he glad it's all over? "Unquestionably."

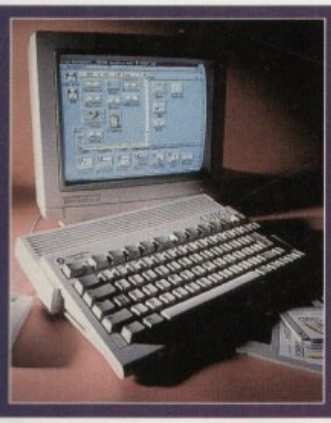
And finally

From where this journalist is sitting, there's an undeniable air of determination and hope for the future of Commodore and the Amiga. While the losers in this first important phase of re-establishing the Amiga aren't likely to start spitting nails at Escom because they all seem to have plans for approaching the company at some point, the general mood is distinctly upbeat and co-operative – that attitude in itself is alien to the Amiga world of over a year ago, where doors were closed to most third-party developers and the other unsung heroes that have stood behind the machine.

Cynically, perhaps this could all turn out to be nothing more than concealing PR from Escom – after all, the company was only interested in the trademark two months ago and have now produced a long list of substantially different plans for the future of Commodore. One gets a feeling that some of the comments coming out of Escom's PR factory and interviews are still generalised and by no means set in corporate concrete.

For the time being, though, while question marks remain and the road to recovery has several large and unchartered potholes dented out of its tarmac, the simple fact that Escom has plans, and has a substantial amount of money to back them up with and a soon-to-be-in-place world-wide distribution network, means the Amiga, even comparing back to its old hey days, has never had it so good.

Escom has a lot to live up to. For everyone's sake, *Amiga Computing* wishes them the very best for the future.



On its way out?

The CD32's future is still in question – there is no mention of it in any of Escom's plans but there is an rumour that its production will be resumed

Thanks to Tim's Megastore (01625 434118) for loan of C64

Hottest 5 CDROM

CD100 - Includes a FREE 54 page printed Book with all the programs Names, version numbers & descriptions. Gives you an easy way to view the programs contained on the cdrom. Hottest 5 is the first cdrom to come with a free printed book for describing the shareware titles.

Contains the continuation from our Various floppy disk library (disks V1501-V1750), and our main library disks from 4001-4300. This cdrom covers a variety of Public Domain subjects; Utilities, Games, Mega Demos - AGA, Euro Demos, Demos, Product demos, Disk Magazines, Music Titles, Slide shows, Clipart, Fonts, Rave Dance Tracks, Sampled Sounds, Images in JEG, GIF, AGA 256, Imagine Objects, Textures, Animations, Sound Samples, Music Modules, Colour Clip art, Educational disks, Adode type 1 fonts, DPaint fonts, Scalable fonts, Business programs, Word processors, Graphic utilities, Workbench tools, Magic Workbench icons, Music production, Hard drive utils, Comms, Virus Killers, Video proction, Emulators, Hobbies, Fractals, Printer utilities, New Printer drivers, & much more.

CODE	CDROM TITLE/DESCRIPTION	PRICE
CD060	HOTTEST 4 (DISKS 3001-4000)	£19.99
CD061	UTILITIES V1-1500 (VARIOUS DISKS 1-V1500)	£19.99
CD100	HOTTEST 5 (4001-4300/V1501-V1750)	£19.99
SUB3#	SUBSCRIPTION to the HOTTEST RANGE	£14.99

Get your HANDS on the Hottest's CDROMs, the day on which they are released, YOU CAN NOW! preorder them with our subscription service, all you need is a credit/SWITCH card. You will only be charged £14.99 + £.75p when release.

CD200 Hottest 6 will be released August 1995. and contain disks 4301+ and V1751-V2000

CD142 MEETING PEARLS 2 £9.99

The disc contains the following:

- 9Mb Disk, hard drive, CDROM and SCSI tools.
- 23Mb developer tools, cutsdown includes.
- 59Mb text, FAQs, CD contents files, etc.
- 13Mb Games.
- 22Mb Slected html-pages.
- 32Mb Graphics programs and data.
- 16Mb from The Party '94'
- 13Mb various other tools
- 8Mb educational software
- 46Mb NedBSD for the Amiga.
- 18Mb terminal programs
- 22Mb Animations.
- 6Mb Music programs
- 6Mb midi programs
- 35Mb pictures
- 37Mb Linux for Amiga
- 17Mb Fractals
- 82Mb TeX installation
- 36Mb movie database
- 31Mb archive for Psion
- 24Mb modules

New Release

CD113 GIGA GRAPHICS (MIRKO

is the best graphic collection with more than 10,000 pictures. A must for every Amiga Fan. Perfect for AGA Amigas. All images in IFF format (24 Bit & HAM8). Its a 4 CD set quad pack.

CD105 GRAPHIC SENSATIONS £19.99

Do'nt BANG! your head against the wall, in search of Imagine software get This!

The Graphics Sensation CDROM is a collection of the best Graphics tools, 24bit images, Animations like the famous JUMPGATE(3.7Mb), The Apache 3d helicopter and the Space Animation by Samuel Rees. A huge colection for IMAGINE Users - that will take you years to look through, categories including: Anatomy, Animals, Airplanes, Aviation, Bathroom, Botany, Building, Clocks, Computers, earth, Fonts, Food, Furniture, grass, Kitchens, Lamps, Land, Logos, Misc, music, Outlet, Phones, Ships, Space, Sports, Text, Toys, Tree_Kit, Vehicles, Video & Weapons. LIGHTWAVE Users are treated to subjects like: as the image section, Textures, Tools, Toys, Tutorial, vehicles, Video, ViewPoint & Weapons. 240 ADOBE TYPE 1 FONTS, and a large Textures section.

CD147 CD WRITE £39.99

What! You still can't write to your CDs CDROMs have long been as essential part of Amiga computing. Many users already own a CDROM drive. and the number of software packages available on CD is increasing steadily. Unit Now, through, it was not possible to write to CDs. We have found a new revolutionary software by Ralph Badel and Stefan Osowski's. CD-Write enables you to virtually write to CDs with an ordinary CDROM drive. Requires a hard drive system.

CD38 MULTI MEDIA TOOLKIT2 £22.99

The long awaited sequel to Multimedia Toolkit has arrived, its a double disc set aimed at music and video professionals and enthusiasts. the contents include the FULL OctaMED v5.04 package, (with Aura sampler support). OctaMED will run directly from the CD or can be installed to hard disk. In excess of 250Mb of support files for the OctaMED package have been included, made up from modules, samples, midi files and utilities. Full documentation in Amiga Guide format. OctaMED is a commerical program & is simply the best 8 voice music maker & v5.04 is the latest version produced. In addition we have included the full MidiCraft collection of midi & music X files, samples, modules, tutorials, and utilities. Midi craft are professional musicians and have provided over 500Mb of data from their collection. The graphics side of the collection is well catered for with 500 24bit images geared towards backgrounds, textures and general intest subjects. Over 1400mb of Imagine objects, 50Mb of Lightwave objects, and loads, loads more!.

LIGHT ROM 1995

CD057 LIGHT ROM £39.99 - CD114 LIGHT ROM 2 £39.99

A MUST HAVE CDROM FOR THE LIGHTWAVE ARTIST.

A Multi-platform CDROM that can be used with all versions of Lightwave, including AmigaDOS, Mac-OS, Windows/NT, MIPS, Aplha and SGI. Contains 650 megabytes of: Ready to render Lightwave scene files and thousands of Lightwave Objects. A collection of 24 Bit Textures ans Images in IFF, Targa, and JPEG Formats. Exclusive "Showcase" Directory advertising the talents of Lightwave artists world-wide. All Lightwave Textures, Images and Objects come with thumbnail renderings for easy previewing. One hundred percent Lightwave/Video Toaster Material. Outstanding value at the incredible price of **£39.99**

CD150 AMIGA TOOLS 2 (TGV) £24.99

The successfull AMIGA-TOOLS series continues. All programmes on the disc are directly executable just like AMIGA TOOLS. You don't need to decrunch or install any of these programs. This cd includes: - Terminal Tools, Disk Tools, Printer Tools, DTP Tools, System Tools, Crunch/Decrunch Tools, Network Tools, Graphic Tools, Virus Tools, Hardware Tools, Commodities, A Music part, Compugraphic fonts, Demos and demo-versions, Emulators, Amiga Magazines, Magic User Interface, A compete Packet of TEXA, Cinema4D-demo version, Castilian demo version and so on!.

CD148 PHOTOGENICS (AGA/DISK) £49.99

At last the Amiga has a powerful image manipulation package with the ease-of-use and creative freedom of a traditional paint program. FEATURES, Realistic Air-brust, Chalk Pastels, Crayon, Marker Pens,~ Art Pencils, Felt Tips, EFFECTS, Add noise, Antique, Blur and Heavy Blur, Bricks, Displace Map, Emboss, Flip, Gradient Tint, Greyscale, Limit Min/Max, Line Art, Matrix, Mix Add, Diff, Or, Sub and Xor, Monochrome, Negative, paint, Pixelise, Randomise, Rub Through, Sharpen, Shift Hue, Shift RGB, Solarize, Textures, Tile, Tint and Slight tint and many more!. SUPPORTS MANY IMAGE TYPES, from IFF-ILBM (2-256 colours), Windows BMP, GIF, JPEG, GEM etc.

CD103 FRESH FONTS 2 £14.99

The Freshfonts 2 CDcontains 632 megabytes of fonts for almost any computer system. Most of the fonts are freely distributable, except for the special Theme font collection which are exclusive on this CD. Over 231 font families with upto 8 different sytes. There is a booklet provided with 24 pages of printouts of the fonts. There are also some programs on the cd dealing with fonts.

CD029 CDPD VOL 4 £14.99

Complete GNU C/C++-compiler v40 includes, C Manuals, E! the Language, PasTex 'TeX' Music: Complete AM/FM magazine and AM/FMSpecial disks, Raytracing Images objects, attribute files, textures, tutorials and guides, Persistance of vision: A complete raytracing system, Networking UUCP, SLIP & TCP/IP, Text: classic books, Internet guides, 350 Bitmap and 410 PostScript fonts.

CD040 EURO SCENE VOL 1

ALMATHERA

£9.99

600Mb of Amiga demos and music. For the the FIRST TIME on CD, Euroscene brings you the many talents of the famed Euroscene gathering - drawn directly from the FUNET Internet Archive. Contains all party winners and many groundbreaking productions. All archived and designed for BBS, Amiga CDROM and Unix.

CD006 DEMOS 1 £7.99

CD009 DEMOS 2 £14.99

ALMATHERA

Games - Over 100ready to run with a simple front end menu. Watch anims spooling from the CD. Sound Samples - Over 600 IFF raw sound samples, Music Modules - Over 2000 modules with players, Demos - Latest PD demos and the best of the classic demos, Images - 100s of images, and much more!.

17 BIT CDROMS

CD067 17 BIT 1&2 £29.99

CD039 CONTINUTION £9.99

CD065 17 BIT PHASE 4 £19.99

PHASE4: 17 Bit have crunched every single new disk that has been added to their library of Public Domain adurning 1996 out to this single CDROM.

CD077 DESKTOP VIDEO £14.99

Original textures & backgrounds in JPEG,Overscan over 200colour anti-aliased fonts in sizes up to 200 points. Light-Wave / Imagine / Sculpt, over 150 objects in each format. Current utilities - Image Studio, ViewTek, PP Show, Anim Author, Persistence of Vision, HamLab, Fractint, Anim players, Titling & Morph utilities, object converters, & more.

3d object data for

SPECIALS OFFERS

CD137 ANIMATIONS £7.99

CD41/45* RAY TRACING VOL1&2 £7.99 Each or all 3 for £20

CD149 VIDEO CREATOR £34.99

Create yorowson professional quality music videos using ANY music CD and your Amiga computer. Combine images, animations, and 3D graphics to create spectacular videos, and record to any Video Recorder to keep forever. Contains a powerful song editor, SynchoCyclyes, 3d graphics. Over 10000 images, Synchronise, Text, Random Rave, CD32 only! Plus much more!.

LATEST LIBRARY DISKS

V4271 BOOMFIELD

BoomFied is a great version of MineSweeper. It has some new features: Great backround music. Auto mode. Hebrew and Enflish support.

V4275 TACTICAL STARSHIP

This is a strategy game based on tactical starship combat. Play revolves around maneuver and resource management.

V4277 INCINERATOR 3D

is a 3D missile attack/defend game. It lets players attack an enemy city, as well as defending their own, from missiles arcing over the mountain tops. It features up to 24 simultaneous missiles, an attack helicopter, laser cannons, and force fields. PAL mode supported, and HD installable.

V4279 LORDS OF HOST V1.0

A strategy game for two players based on a board game called Shogun. Features include flexible mouse/joystick controls, undo and redo of up to 500 preceding steps, fully intuitionized user interface. Complete source code, precompiled include files and debugger files included.

V4286 TOP HAT WILLY V1.2

Nowadays a platform game means something that scrolls in eight directions at 50hz speed, has power-ups and jump-on-a-monster-to kill-it action. This is thought to be an improvement over the 8-bit-style platforms such as Jet Set Willy or Monty.

V4302 YUM YUM

This is a game for children really. It is essentially a Pac man clone. The levels are very simple and the skill level required is quite low. The graphics and sound effects are quite amusing.

V4306 ZZZEP

In this game you fly a Zeplin. You don't have a great deal to do accept for destroying a whole load of little round things whilst avoiding numerous dangers etc etc.. There is a trainer attached to this game if you find it too difficult.

V4307 CRYSTAL HAMMER '93

A classic arkanoid clone with many excellent and colourful levels as you progress through it. Great graphics and sound effects. Very good.

V4310 MERCURY MISSION

Terra-forming eh? What a business. You must initialize the Terra-formation of the planet Mercury by clearing it of five dangerous energy crystals. A thrust type game with good graphics.

V4311 PUCMAN

This, as you may have guessed already, is a Pacman clone. The graphics are good and the playability is just about as close to the original as I have ever seen, an enhanced classic version.

V4324 DEMON'S TILT

is a patience cardgame based on one by the name of Canfield. It is reasonably difficult to play but there is a good help system built into the game.

V4325 INFECTION

This is a superb four player puzzler/boardgame. Simply, you must try to take the other players' pieces by moving next to them. Good game.

V4326 TURBO THRUST

Turbo Thrust involves two player racing high speed spacecraft. With split screen action you can't ask for more. There are tracks a plenty and options for speed and laps etc.

V4333 EMERALD MINE V6.0

Preview ao Emerald Mine v6.00 Editor and Game. Totally rewritin shareware version of Boulderdash/ Emerald Mine. Includes 4 Playable levels for ECS & AGA; Highscore/nemes saving and teamwork playing are disabled.

V4334 COMBAT2000

Welcome to Combat 2000, although it isn't yet. This is, instead a version of the classic arade that will be found there's. The graphics are still bugs and I'm still nagging Andrew.But the game will one day be completely re-written for now enjoy this version. This is a 2 player game.

V4335 OZZIE

The galaxy has open up for those species that have mastered methods of Interstellar travel.

V4336 TOTAL AXCESS

Total Excess is a horizontal right to left shoot-em-up It was entirely made with AMOS and a special programing technics have been used to make this game really stand out in a crould. This is a MUST have program.

V4337 (AGA) A/THRUST

An Amiga 'Thrust' type game. No 'ENGLISH' docs included. There is an english 'readme' included which gives quite a few hints. - 100% system friendly. - realtime 2-player-mode via the serial port - 2 players can play using the keyboard - it has a font & size sensitive GUI-frontend - lots of extra weapons - your own screens can be created and used - screen size upto 1024x1024 w/32 colors - optional splitscreen/fullscreen mode while playing via modem - sound effects.

V4338 DELUXE GALAGA

Deluxe Galaga is based on the game StarBattle (vic20) & has some of the features of Galaga and Galaxions. This is a simple shoot'em up game with good game play but not much beyond graphics.

V4339 NEXUS7 [ANDROMEDA]

There are some superb graphical effects in this demo. Included are some outstanding 3D rotating fractals, a great routine showing a desk lamp jumping up a set of stairs, bouncing balls, pixel zooms, great music and much much more! Great.

V4340 ZEROS AND ONES [ASYLAM]

This demo has some original routines such as the part which makes your monitor look as if its going on the blink! There is some more good stuff such as a spinning transparent multicoloured cube and excellent music. Good.

V4341 (AGA)SOULKITCHEN(AB)

A great AGA demo! There are loads of different effects such as bouncing vector balls, some kaleidascope effects, a great cartoon picture and a superbly funky soundtrack. Excellent!! Does not work on non standard A1200s.

V4343 (AGA) JAMMIN' [HAUJOBB]

A superb demo. The graphics in this demo are of an outstanding quality. The demo runs through very smoothly with some great logos, effects and more. The soundtrack in the most part has a reggae feel.

V4344 DEMO OR DIE

A great production. There are some good original effects in this demo. One outstanding routine involves a dot vector skull rotating and then morphing into a dot vector hand. There is some good morphing of portraits at the end of the demo

V4345 (AGA) TENSION [APEX]

Great AGA demo. There are some superb routines including one which has the APEX logo scrolling over a rippling landscape. Some great graphics here as well as a good soundtrack. Good.

V4346 RUMBLE RUBBLE

A pretty bog standard sort of intro. Good graphics, good soundtrack, all the usual effects - dot vectors, bouncing balls etc plus some original routines such as the realtime rastracing of a rotating sphere!.

V4347 KILLING TIME (ABC)

This demo starts off with with a 4096 colour rotating pixel room. Then everything gets rather long winded having a go at the disk on which has some pretty good effects but nothing spectacular.

V4350 TRSI

Another great demo for the Amiga. There are some great graphics in this production as well as a good little soundtrack. Nothing unusual or particularly original but indeed a very good demo. Great.

UTILITY DISKS

V1523 RELOKICK V1.41

Howdi doodlly doooo Amiga freaks! It's ANOTHER(!) version of RelroKick.

V1611 SNOOPDOS V3.0

will log all the dos/library calls and more when you run a program. This is handy for both the programmer and the beginner. For example, Have you ever installed a program to your harddrive and then discovered that it will not run without a certain library but you don't know which?

V1626 STAR TREK OBJECTS

V1630 BABYLON 5 OBJECTS

V1631 ALIENS OBJECTS

V1637 BABYLON 5 OBJECTS 2

V1641 SUPER KILLERS V10.0

Contains the latest collection of virus killers like AntiCicloVir v2.2a, Virus Checker v6.43, VirusZIII v1.07, and VT v2.67, Req 1.2/1A.

V1649 REFLEX

Interesting program. It uses an artificial intelligence system to create a personalty for your Amiga.

V1659 MSDOS 4 AMIGADOS

A very interesting utility which should be useful to anyone who uses both PCs/Amigas. The tool allows you to create a directory on which you can store MSDOS commands & then they can be used through the shell as if they were AmigaDos.

V1661 (AGA) NAT/ LOTTERY

A national lottery prediction program called Lottery Winner. It consists of a database system which can record the National Lottery results from week2week until it has sufficient data to make certain types of predictions on just a guess.

V1662 GAMES INSTALLER 2

Contains a variety of hard disk installers for a few well known commercial games. These games are as follows: Alien Breed 2, AGA, Jungle Strike, Assassin (Special Edition), Body Blows, Goal, Ishar 2, Zool 2 AGA, Ruff and Tumble, Body Blows 2 AGA, StarDust, Super Frog, Walker, Rise of the Robots, Bubble and Squeak, ElfMania, Aladdin AGA and Mortal Kombat 2. Great.

V1669 TUDE V1.0

The Ultimate Degrader is a very extensive & easy way of degrading your machine for all sorts of purposes. It is useful for playing old game on A1200s for example which need kickstart 1.3. There is a GUI version included as well as a CLI. version so most people will have no trouble using it. A highly useful tool for all Amiga owners.

V1675 BANK MANAGER V1.1

V1688 F1GP-ED V2.04

will work on any version of F1GP, including the 4600 WWW version which was not supported in V2.03 because of a bug. F1GP-Ed allows the user to customize their copy of F1GP.

V1695 DALEK OBJECTS

More imagine objects, textures or headings like Mega Imagine objects (3D objects) Imagine format.

V1701 GRAPHIC CONVERTERS

AGA/IFF16, IFF-Converter (many formats). V1.60. AMIGE.Convert/IFFtoGIF. ARCD.ConvertPhotoCD picture to IFF. ART_PRO. ART-Pro , a powerful gfx-converter. (2)

V1709 HINTS & CHEATS

ACHEATS, Amiga game cheats by Postcard Man. AMI_CHEATS, level codes, backdoors to 453 Games. CATACOMB_MAP. A map for the brilliant game Catacomb. FRONTIERHINTS. Hints and Tricks for Frontier - Elite II. GCHEATS, Sega Genesis cheats by Postcard Man. SCHEATS, Super NES cheats by Postcard Man. VALHALLA, Walkthrough for Valhalla. WIZBALL, Little ASCII file containing level descriptions for Wizball.

V1710 ADDITIONAL ICONS

New icons for Workbench. - 2 variations of drawers, each with its own theme. - SGI Folder like drawers - Filing cabinent drawers - Icons for all sorts of PD apps [like degrader, etc] - Icons for all sorts of other things [loaner, pac_games, etc] - and more!

V1711 FIG

is a menu-driven tool that allows the user to draw and manipulate objects interactively on the screen of a Sun Workstation. It can only be run within the SunWindows & requires a three-button mouse.

V1712 AIBB V6.5

AIBB is a system performance analysis tool designed with built-in tests for exercising CPU, FPU, and graphics portions of system performance.

V1714 GEOGRAPHICAL ATLAS

Amiglobe allows you to navigate round the world in full 3D It gives you many datas about countries and position of main towns and mountains. Unlimited zoom feature included. Requires use of LHA command and a hard drive. (2)

V1718 VIRUS WORKSHOP V4.8

This virus killer was programmed to help you to get rid of all the viruses hanging around. Its best and most useful virus killer program to date in my view, takes over where BootX left off.

V1719 TELETEXT-DECODER V2.3

V2.3d (serial) of the videotext/teletext-decoder software for the HSL VideoTEXT decoder. It features + load/save/print of gfx/ascii-pages, background receive/save, + international charset support + hidden chars, blinking, + senclock, + works on all Amigas

V1721 JPEG TO AGA CONVERTER

This program converts ppm, pgm and pbm files to IFF-ILBM with support for AGA graphics modes. Binaries to support the JPEG file format are included. To convert other formats you will need the NETPBM package available on Aminet.

V1722 AMIGA TO PSION S3/A

AmigaNCP is a implementation of the Psion link protocol which is e.g. built into the Psion S3/S3a palmtop's ROM. It's main purpose is to provide vice-versa nfs-like file access.

V1723 VIRTUAL REALITY [020]

This program allows you to walk, drive and fly around in a 3 dimensional computer generated world in realtime. It is used to visualize architectural, industrial and artistic designs for presentation or analysis purposes.

V1724 ZX-SPECTRUM EMU V4.71

Is the first release of this emulator, earlier versions were demo versions and were not released by the author !!! This emulator enables you to run almost any program that runs on a ZX-Spectrum.

V1745 TERM V4.2 [030]

The latest version of this very well known comms terminal program. Version 4 has even more features than ever before it is not for beginners it is probably the best available. Very good.

V1747 MAGIC-BACKGROUNDS & MAGIC WB ICONS

This package is a patch to MagicWB, the 8 bitplanes XEN-Icons have been converted to 3 bitplanes icons wich will take less CHIP RAM in your system. This is the fourth release of my Magic-Background-Collection with ten (not nine nor eleven $-) brandnew backgrounds for your lovely Magic-Workbench. This time you will get some 'winter-pictures' which ice and snow :)

V1751 PRINTER DRIVERS

CANON600 v2.0 - EPSON FX-850 v1.0 & LX-800 - HP4DRIVER v35.8 - HP4LSETTER v2.01

V1754 FERN GULLY COLOURING

Select your background, choose a character then you can colour the picture in using your mouse.

V1755 BARNEY MEETS SANTA (AB)

Digitised voice which narrates the story & explains what you must do in the various games & puzzles.

V1757 ART-PRO COLOUR

Select a background, chohse a character to paste on top, before colouring the whole picture in.

V1758 SENIOR QUIZ - FIRST AID

Many questions and answers about first aid. So if you're a budding paramedic then you can hold a quiz night with this disk.

V1759 JOES TYPING TUTOR (AB)

The actual typing lessons are quite good & once you start typing there are many different lessons.

V1761 KIDS DISK 6

A game which allows the user to run a shop. They have to fill out the receipts for each order & give correct change etc.

V1762 A WITCHES COOKBOOK

Magazine which contains many recipies for herbal remedies. Various substances such as antiaging creams, lotions, oils and other ointments.

V1763 RECIPE/RECORD

This is a program for the recording of recipies and the like. You can use this system to create a database of different meals, foods or even wines. Simple to use and hard disk installable. Good.

V1765 SHIP'S COMPUTER LIBRARY

One for those trekies out there. is a simulation of the computer you might find on board the Starship Enterprise. You can look up all sorts of information about the federation fleet etc.. Very good. (3)

V1768 SET UP PROCEDURES

If you don't know how to create your own self booting disk then get this. Amichangl is a text file detailing the set up procedures which need to be undertaken to create a self booting disk.

V1769 PREDICTION TOOLS

There are four tools included on this disk. Amiga Punter is a program which will try to help you predict the out come of horse races.

V1771 COURSE FORM

Like to put a bit of money on the horses? This utility allows you to enter the figures for the horses in a particular race, plus the course details.

V1774 TELEPHONE BOOK v3.1

This is a very simple but effective program with will store phone numbers and also there corresponding names and addresses. Easy to use.

V1778 LOTTERY CHECKER

is a great tool for checking lottery numbers. Good for office syndicates. Find 'A' Date is a database which stores & matches people up for blind dates. Sneaker is used to view/change binary files.

V1779 DIY REKO

Do It Yourself Reko is an ImageFX arexx macro which makes Reko cardsets (for Klondike AGA) virtualy automatically, saving you lots work.

V1783 LIGHTROM 1+2 EXAMPLES

V1784 STARTECK GENIES V1.0

Seven must have genies for anyone with Professional Draw. The genies are PieCharts, Stars, Emboss/Engrave, ScalePercent, ZoomWindow, Select-ByAttribute and GridSet. Well documented.

V1786 TOOLS & MENUS

CATCHDIR v1.20 - A simple commodity for auto-formating bad/unformatted disks. CHKSUM v1.0, ToolsDaemon v2.1a - Allows you to run programs simply by selecting a menu item from the menu strip of Workbench 2.0. WindowDaemon v1.9 - gives extended control to imuition windows and screens through HotKeys and Arexx.

V1786 MAGICMENU V1.29

Replaces all Imuition menus, supporting both pull-down and pop-up menus. Menus can be displayed in either the Standard look, or the modern AmigaOS 2.0 style 3D-Look.

V1787 ATTRIBUTES V2.0

Is a full disk of attributes.

V1788 LENSFLARE OBJECTS

This is the staging file to render an animation showing an lens flare that move with the light source. objects and explanations included. Great.

V1789 COMMUNICATIONS (ABCDE)

AmTCP v3.0, Terminus v2.0d, Source/Developer Kit for AmTCP v4.0, AmTCP/IP 4.0. AmTCP/IP, FTPDaemon v2.0

V1794 AVMNFAX V1.33 (AB)

This fax program can be used with Class 1 and Class 2 fax modems. (2)

V1796 MAGICUSERINTERFACE v2.3

MUI is an object oriented system to create and maintain graphical user interfaces. (2)

V1798 TURBO MODULA-2 v1.40 (AB)

Compiler is commercial quality: its fast, generates small & fast code, doesn't eat too much memory & the error reports are normally very accurate.

V1800 AMINET CDROM DETAILS

The complete Aminet on 4 new CDs, desc and index. Also contains aminet 5 listings.

V1801 VIRTUAL WORLDS V1.017

is a new adventure creation system which allows users to easily create large text & gfx adventures.

V1802 TEXTURE GUIDE CREATOR

This File will convert your Original texture.txt & litetex.txt files that comes with Imagine 3.0 into an Easy to use Amiga Guide File.

V1803 AD2PRO FRONT-END V2.4

fixes several bugs in 2.3, as well as adding several new screen modes & picture layouts.

V1804 IMAGEDESK V1.2 (AB)

a program to catalog picture directories. By this small representants of the pictures, so called IMAGES are being generated & internally expanded to objects which will include all essential attributes

V1806 MAGIC SELECTOR V1.60

is a program who select different background & IconPics in Workbench each time you are booting up you Amiga. Some Patterns/Sounds are included.

V1807 SPECTRUM EMULATOR V1.6B

This program is a Sinclair ZX Spectrum emulator. It needs WB 3.0+, 68020+ and AGA chipset (68020+, WB 2.04+ and any kind of chipset for the OCS/ECS version).

V1808 ROMAN'S MAGIC WB ICONS 7

New, high quality, standard size, MagicWB2.0-style IconsageDrawers and other MWB-stuff. RomIcons7 is Cardware. (2)

V1811 IMAGESTUDIO v2.0 (AB)

as written for the casual graphics user who wishes to convert or manipulate various graphics formats on a modest Amiga system.

V1816 DOPUS MAGIC COMPANION

Loads of extras for use with Directory opus program. Arexx files, Utilities and loads more!

V1818 EASY DMS

DMS used by most cdrom systems for storging disks is now easy to use with the excellent system.

V1819 MAGIC WB EXTRAS 5

Another selection of the finest Programs, icons etc for use with The Magic Workbench system (2)

V1821 MSX EMULATOR V1.2

This package includes three flavours of a MSX emulator, MSX-Turbo, MSX 256kb and MSX-2. This package is an unregistered shareware program.

V1822 PATCHES

68030 Patches for FinalWriter 3.0 This patch speeds up FinalWriter 3.0 on all 68020/30/40 machines. things like font rendering and internal arithmetic will be up to 400% faster!. SASC V6.55 bug fix for Amiga SASC 6.50 and SASC 6.51

V1823 BAUD BANDIT BULLETIN BOARD SYSTEM V8.4

Up to 99 file libraries with extended filenames. Up to 99 fully threaded message conferences. Number of users, files, messages, etc. are only limited by storage space. Controlled file library and message conference access for users & sysops. Interface to extra devices like CD-ROM & others, all treated as Read-Only. Complete Email area including binary mail, and multiple forwarding.

V1824 DUST TUTOR (ABC)

Tutorial to help you to become familiar with Dust. Contains many small animations and a guide-file in english.

V1827 EGS PHOTO ALBUM

Picture management and presentation software for EGS. Offers access to large collections of picture and animation files. Supports DataTypes.

V1828 IMAGEFX LOADER

This is a very fast universal loader module for ImageFX and ImageFX-EGS.

V1829 IMAGEFX 2.0 DEV KIT

Developers kit will allow most amiga programmers to develop modules for nearly any part of the ImageFX 2.0 system.

V1830 IMAGE DESK V1.3

Program to catalog picture files by creating 'thumbnails'

V1831 IMAGINE 3.X OBJECT OF USS ENTERPRISE

This object can be rendered w/ Imagine 3.x only. Very nice Renderings of the USS Enterprise.

V1832 80 QUESTIONS

This is an educational study aide. It allows you to create a 'flashcard' type test to study by.

V1834 ARCTANGENT'S BACKDROP & S/U PIX VOL 3

collection of backdrops and startup pics for the Amiga. Vol 3!

V1835 MAGICWB PALETTE & FOXKICONS

Darker version of MagicWB palettes 35 total!. Pretty Magic Workbench icons for Sound and Misc.

V1836 NETBSD-AMIGA

NetBSD-Amiga is a full-fledged unix operating system for the Amiga.It is a combined effort of users in many countries is freely redistributable,and is constantlyimproving.You need MMU in your Amiga to run NetBSD-Amiga.Amiga users who are feeling increasingly isolated can now jump on the Unix bandwagon and still keep their Amigas.

V1836 MRBACKUP V2.1.4

is a hard disk backup program for the Commodore Amiga family of computers. It provides a wide range of services to support Amiga file management and backup/restore of files to/from hard disk.

V1837 DISK DOUBLING V1.9B

This package allows you to create virtual partitions gn your HD. Files stored in such partitions get automatically compressed and decompressed whenever you access them, in a transparent way.

V1838 VMM V3.0

VMM Implements a virtual memory manager for Amigas with a 68040,68030 or 68020+68851 processor. A localized user interface to enter all parameters and to disable certain tasks and load programs from Virtual memory is also provided.For the user interface MUI 2.3 is needed.V3.0 includes the ability to swap out program code,memory tracking,better MMU support, an Arexx port and some other things.

V1839 MAGIC WORKBENCH 1.2P

A superb utility! Magic Workbench completely wipes over all those horrible workbench icons & replacing them with its own versions. It also adds patterns and changes your workbench fonts. The end result is a much more attractive workbench. Easy and safe to install. Looks great!

SPECIAL NOTE

All the disks BETWEEN V1501 to v1750 and disks 4001 to 4300 are included on the Hottest 5 CDROM. (See the other page of this advert for more details). Higher numbers will apear on Hottest 6 coming out in the next 3-4 months.

CODES & SYMBOLS

- (+) ..... Workbench 1.3x and higher only
- (*) ..... Workbench 2.0x and higher only
- (**) ..... Workbench 3.0x and higher only
- (+) ..... Works on WB3 & above
- (!) ..... Not Workbench 3.0x
- (-) ..... Not Workbench 2.0x
- (?Mb) ..... Req ?Mb amount memory to run (2Mb)
- (?) ..... There's ? disks in set or (AB=2)
- (=) ..... Requires disk V1523 KICK to run
- (>) ..... NOT! on an A600

CD112 AMINET 1-4 QUAD PACK £27.99

CD107 AMINET5 £14.99

UK Number 1 Stockest

The Aminet CDROM Range

Aminet is worlds largest collection of freely distributable Amiga software. Up to 10,000 users access the vast archives every day, and countless programmers publish directly via the Aminet. Only 3 years after its inception Aminet now holds the equivalent of more than 4,000 floppy disks of software! Untill recently access to Aminet was restricted to international network users. With AMINET SET1, consisting of 4 CDs, the complete archive is published for the 1stime. Aminet Set 1 dated 1st of January 1995, consists of approximately 4 gigabytes of software in 12,500 archives. Whether you like applications, games, utilities, networking software or programming languages, the Aminet CD offers an almost inexhaustible reservoir of top value FD software, Improved user friendly access software make the set a pleasure to use.

CODE	DESCRIPTION	PRICE
CD016	AMINET 2	£7.99
CD016	AMINET 3	£7.99
CD016	AMINET 4	£7.99
CD112	AMINET_1, 2, 3& 4	£27.99
CD107	AMINET_5	£14.99
*CD150	AMINET_6 (JULY95)	£14.99
SUB1#	SUBSCRIPTION	£12.99

Get your CD's on the day of release, preorder them with this subscription service, credit card or SWITCH cards charged on day of release.

Aminet 5 - dated March 1995, consists of approximately 1.1 gigabytes of software in 3600 archives. Since the release of Aminet CD 4 more than 448 MB new software has appeared since the release of the Aminet Set 1 214Mb of new software has appeared. The current edition has a special focus on games, more that 1000 games from Aminet were included. User friendly access software.

CD053 *The Professional IFF / PCX Clipart 2 £19.99

Comes in both IFF and PCX formats to cover both PC & Amiga users. includes such categories as animals, boys, cultur-al images, floral and natural images, girls, holiday images, literary figures, mythological images, scenery, transportation, and work images. The disc contains drawings of bears, cats, dinosaurs, dogs, insects, and horses. Cultural images from Egypt, Japan, Native Americans, Polynesia, and Persia are also included on the disc. Floral and natural images include blossoms, planets, sky, the sun, trees, and weather. Comes complete with a 250 page book with most of the images printed. Other sections on the cdrom are Walpaper backgrounds for Windows & Workbench 2.0+, Gfx utilities, viewers and converters, Icons and loads of Magic Workbench software.

Includes a 250+ BOOK

CD101 *THE SOUND LIBRARY £19.99

DOUBLE CDROM

CD141 THE LIGHT WORKS £39.99

Raytracing - a fascinating area of the computer graphics. Pictures from the computer, perfectly rendered fascinates people all over the world. A real artist of raytracing is Tobias J. Richter from Germany, whose detailed objects will do use them. Especially his space ships of famous science fiction films are used to demonstrate the capabilities of a raytracing program. Until now it was difficult to integrate these objects in order to create your own scenes or animations. THE LIGHT WORKS CDROM contains mainly objects created by Tobias J. Richter, together with surface textures, ready to use in Cinema4D, Reflections and Imagine. But also for those who don't know that much about raytracing, there is some material on the CDROM: more than 100 rendered pictures and several animations demonstrate, what is possible with these objects. If you want to play around with the objects, you can use the demo versions of Maxon Cinema4D and Reflections on disk. These are versions with some functions disabled. Also a huge amount of PD pictures and animations.

CD144 R.H.S COLOUR COLLECTION £19.99

An excellent collection of colour fonts, colour clipart with directory headings like Astro, Cartoons, Computers, Dinos, Fantasy, Flight, Girls, Kids, Nature, Sport, Fish, Boats etc. The Canny Font selection, Deko font library, The Farb-bilder picture slide show selection, The Profi-Bilder Pack and loads, loads, more. The fonts shown are only a small selection of the fonts to be found on the disc and just wait to see you see the colour clipart. A colour printers dream is to be found.

CD061 PRO UTILITIES V1-V1500 £19.99

Contains all of our Various disks From Number 1 upto 1500. Sujects covered like Sound Samples, Instruments, Modules, pictures & Clip art mono, colour, Educational, Business utility disk, Graphics & Music production, HD utils, Workbench utilites, comms, Virus killers, Video produ, Emulators, Hobbies, Programming, fractals, Printer utilities, *Satabases, game related , sound related software, Animation , home and prediction, hard drive software, cd rom related, Med and Octamed, Design work, Amos, demo makers, Cheats disks, vector objects, degragers & kick uits, Art disks, CAD, compresion software etc. Workbench ready cdrom.

CD091 *POV-RAY £19.99

Create 3D Graphics like this! No artistic ability required!. The Official POV-Ray CDROM is a compilation of images, scene source, programs, utilities & tips on POV-Ray & 3D graphics from the internet and Compuserve. Unlike some other raytrace compilations this one is aimed fairly and squarely at those, who want to create their VERY OWN images.

CD069SPECCYSENSATIONS £19.99

Add your old favourites.. Thrust, School Daze, Jet Set Willy, Atic Atac, Galaxians, River raid, Startrek, Urudium, Under Wurlde, Boulder-tdash, Manic Miner, Jetpack, Asteroid, Barbarian, Hunchback, Micro Olympics, Dan Dare, Monty Mole, Danger Mouse, Hungry Horace, The Hobbit, Snooker, Poker & over 300 more titles. Includes Emulators

CD011 SOURCE CODE £19.99

The Source Code CDROM is broken down into 2 separate categories. The first is the Usenet archive. This section contains 213 MB, almost 13,000 files, including the net sources archive and the comp.sources archives for 3B1, misc, games, reviewed, X and Unix. Most of this code is in C.

CD028 PROFESSIONAL FONTS & CLIPART £9.99

How about every single font we have ever produced! over 4,000 Adobe type 1 font files, 1,500 True Type Fonts, Prodraw Fonts, IFF Mono /Colour fonts, Pro Page II Fonts, Page Setter II Fonts, Also a wide selection of clipart Over 5,000 PCX files, 300 GIF Pics, 1,000 EPS Format, & 2,379 TIFF files. idea DTP Users.

Low Price Special Offer

CD012 PROJECT GUTENBERG £19.99

literature such as Aesop's Fables, Alice in Wonderland, Moby Dick, & Paradise Lost historical docs such as the Magna Carta, USDeclaration of Independence, Constitution, & Inaugural Addresses, references such as Roget's Thesaurus, almanacs, census data, CIA World Fact Book, and mathematical constants, religious documents such as the Bible, & the Book of Mormon

CD049 C USERS GROUP £19.99

Contains disk utilities, screen savers, drivers for keyboards, printers, monitors, etc. invaluable to any Windows user. Customize envir-onments. For entertainment, it includes hundreds of games from arcade style to board games. Also are demos of commercial programs & Programmers will appreciate the source code & programming tools for C, C++, Turbo Pascal, &Visual Basic.

CD056 BEER GUIDE £19.99

The Beer Home Brewing Guide is a complete refer-ence & tutorial on brewing beer at home. Whether your favorite is a golden larger, an oatmeal stout or a Hefe Weitz-en, this CD will show you how to do it, step-by-step from start to finish. Whether you're an experienced home brewer or just starting, you'll love the BEER Homebrewing Guide. Huge collection of recipes.

CD013 FRACTAL FRENZY £19.99

All images on the disc are categor-ized by fractal type, including Mandelbrot, Zesped Barnsley, describe each fractal image & the formula used to compute it. You get each image in both very high resolution & in low resolution versions.

Mr. Skinner's methodical study of fractals has resulted in as many as 494 images from a single ancestor. All these images are included on the disc

CD046 SETIMENTAL WINGS £19.99

You'll see pictures of such classics as the P-51 Mustang, P-40 Warhawk, the F-1xx series, including the F-100, the F-101, F-102, F-105 and F-106, the once secret SR-71 Blackbird, U-2/Syplanes, B-47s, B-52s, the B-58 Hustler, the mighty Phontom F-4s, and many others. You get all images in GIF, TIFF, JPEG and BMP formats for multi-system compatibilty. Macintosh, MSDOS and Amiga.

CD047 TRAVEL ADVENTURE £19.99

A collection of photos from around the world. Contains a first-rate collection of travel photos of the U.S., Ireland, Austria, Germany, Caribbean Islands, other subjects like Stunning Mountains, Gorgeous beaches, coves, and surf A dazzling array of cities and loads more the images come in a variety of sizes & formats (1024x768 24 bit TIF, 1024x768 GIF, 640x 380 8-bit GIF).

CD063 VISIONS £19.99

is a collection of 500 great photos from the Preferred Stock photo archives. All images are ROYALTY-FREE & come in GIF 640x 480 & 800x600 resolutions. You can do anything you want with these photos as long as you don't publish them as a compilation of images on a CD.

CD058 GOLD FISH VOLUME 2 FRED FISH £29.99

An excellent selection of the best software, anims, pictures, games & other material, released on freshfish CD's between Oct'93 and Nov'94, with most of the meterial updated to the latest available versions. All of the material is included in both archved (BBS-ready) and unarchived (ready-to-run) forms.

CD010 GOLD FISH VOLUME 1 FRED FISH £29.99

fred Fish has been working to supply the Amiga community with high-quality, freely distributable software for the Amiga since the introduction in 1985. It remains the official archive of the 1000 floppy library created by Fred Fish between January of 1986 to April 1994. See Gold fish 2 for the second in the series and coming soon.

CD026 LOCK & LOAD £14.99

*CD092 LOCK & LOAD 2 £19.99

An Amiga PD/ games compilation. Nearly 1,000 Games ready to run on CD32, CDTV A570, and any external SCSI CDROM. Includes: Assassins Games 1-148 ready to run (keyboard need for CD32/CDTV users). and several hundread other games.

Low Price Special Offer

CD070 POWER GAMES £9.99

Features more than 500 super games that can be run directly from the cdrom, CD32, or CDTV. Only the best section of stunning games are provided for your use on this cdrom. There are many subjects to select from like Action, Adventure, Jun & Jump, strategy etc.

New Price Special Offer

CD044 SOUNDS TERRIFFIC £19.99

Containing over 1.2 Gig of sounds & data. It all adds to the best collection of sounds on any platform and will form vital part of any musicians CD collection. Contains 4,600 Modules, 14,000 Samples, 568 Sonix Scorces & 4500 Instruments. 302 octaMED Modules, 1190 Midi files, 1552 VOC & 642 WAV Samples, & Utilities.

Double CD

CD071 ULTRA MEDIA 1&2 £29.99

The first real ultimate Amiga MultiMedia CDROM! Megabytes of images, textures, sounds, animations, IFF pictures, GIFs, WAVs and FLICs. Includes a multimedia tool to take advange of the PC WAV format files (this is the first time included on Amiga CDROM). This cdrom pack will keep anyone glued to your computer screen for hours.

Double CD

CD033 THE AMOS LIBRARY £14.99 WIERD SCIENCE

Compatible with all AMIGA's

The offical Amos PD Library is the largest source of code and programs featuring Games, utilities, Samples, Pictures, Sprites, Music, Mega Mega etc all written with the language Amos.

New Price Special Offer

CD034 ASSASSINS GAMES WIERD SCIENCE £19.99

650 + Games for the CD32, CDTV & Amiga CD. Ready to run from a simple menu system. 100% CD32 compatible. Also includes Assassins floppy disks 1 to 200 and the easily exposed to floppy. Workbench, Parnet & Sernet included.

CD143 TERRA SOUND LIBRARY (CYBERLAND) £19.99

Contains some exclusive and absolutly NEW sounds for you cdrom drive, with the following software headings, 259 directories and over 7800 files. - 32Mb of Demos, 130Mb of Mod Files, 275Mb of Modules (Amos, .EXE, Med, S3M, MOD...), 13Mb of Players and Composers, 265Mb of samples.

New Release

CD145 3D ARENA £19.99

Imagine, Lightwave and Real-3d. The Lightwave collection from 24Bit club Scotland Exclusively for this CD. You will also find dedicated animations for Retina and Opal Vision cards, a selection of EGS utilities and rended textures in a variety of formats. The 3d Arena is one of the better preduced cdroms with some very tasty textures and objects. Amiga Format 94%

Special Price New Release

CD098 ANIMATIONS £19.99

Contains 100s of animations ready for viewing direct from CD. Formats supported IFF, Movie player, FLI, PLC & Deluxe Video. Viewers for the Amiga and PC. View on ECS and AGA Amiga. See how the experts use the best animation tools on both Amiga and PC. Certain to provide many hours of fun & enterainment for all. The truly talented animators featured here provide their work for all to enjoy.

CD111 DEMO MANIA £19.99

The Demo Mania CD ROM is the best collection of Mega Demos to date, it contains a excellent menu system with one of the best collections of AGA & Normal Amiga Mega Demos. Consitns a stunning amount of Euro Demo Magazines, AGA Mega Demos. Contains Mega Demos from all the major Demo Making groups for the Amiga

CD110 GAMES DELIGHT £24.99

Contains 40 games for the Amiga from differing categories. Action, jump & Run, Card Games, Puzzles, Strategy Games. A whole range of entertainment awaits!. Gamers Delight will hold you captivated for hours and guaranees long lasting pleasure. All the games are commercial versions - NOPUBLIC DOMAIN & NO DEMOS!. Works with all CDTVs, Amigas or CD32.

CD109 GIGANTIC GAMES £19.99

Over 900 of the best top amiga Public domain and shareware games on one cdrom the amiga have been collected together along with some excellent and stunning titles that now apear on this cdrom. With so many titles it will take you months to wade through and years to play. If games are your thing give this cdrom a go and save over 600Mb of hard drive space at the same time.

CD108 THE BEAUTY OF CHAOS £14.99

is a CD which can be used on various systems. all 507 mandelbrot-Pictures have various resolutions, (1140 x890, 1024x768, 640x480 and 64x48). They all use 256 colours. In addition to this the 200 most beautiful fractals are saved as true colour graphics in TIF format. Amiga, PC and Mac viewers etc are includes on the

New Release !

CD062 LSD TOOLS £17.99

Most PD Compilations contain the usual mix of games, utilties & other associated files.

CD099 LSD TOOLS 2 £19.99

Uses an Amiga Guide-based menu system to allow you to find the file you want PDQ.

CD043 WIERD SCIENCE FONTS £7.99

Contains 2000+ Adobe & CG Fonts with PSFonts, 500 Bitmap, 190 coloured, 240 IFF, 139 Pagestream, 24 Prodraw, 500 Truetype, 132 PCX, 300 GDOS & 230 Calamus fonts.

Low Price Special Offer

CD042 WIERD SCIENCE CLIP ART £7.99

Its one of the most comprehensive collection of Clipart ever for the Amiga range of computers. Over 26,000 files, in B/W IFF bitmap, coloured IFF bitmap, Proclips, EPS, Pagesetter, Pagestream, IMG, Corel Draw and coloured brushes for DPaint. All ready to use and easyily accessible in subject directories.

Low Price Special Offer

CD061 PDSOFT HOTTEST 4 £19.99

Mega Demos, Games, Slides, Music, Mags, Demos, Anims, Rave Demos, Samples, & a complete Anims selection feturing Eric Schwarts, Large memory consuming anims + loads of 1 to 7Mb anims. Also AGA software like, Anims, demos, Mega Demos, Games, WB utils, Educational, Programming, Modules, Video Utils, IFF Pics, GICs, Demo Makers, Anim Utls, Hard & Disk utils etc.

CD115 TEXTURE GALLERY £39.99

1.3 gigs of textures designed for graphic artists on ANY computer. Contains nearly one thousand 24 Bit textures in numerous file formats including IFF, TARGA, JPEG, PICT, TIFF and SGI. All the textures are represented with thumbnail renderings on 640x400 index images for easy previewing. its perfect for use with 3D programs like Lightwave and can be used to create Bump maps. Outstanding value.

CD146 CAM £24.99

C.A.M stands for Club Amiga Montreal. it covers most of the usual area of Amiga use, including utilities, applications, games, images, and music disks, with most of the material being ready-to-run. CAM have concentrated on themed disks. This is a double CD with over 950 disks of the collection with an easy to browse manner. Loads through WorkBench to access the data.

CD079 FRESH FISH 8 £24.99

Contains the Complete set of GNU tools in both source code and Binary form, including C, C++ and ADA compilers, GNU EMACS, text utilities, shell utilities and hundreds of other useful programs like AmiTCP v4.0, Term v4.20, AmigaE v3.1a, MUI v2.3, ACE v2.3, AmiCDROMv1.15, SuperDuper v3.13, UnDel v1.2, Naval Battle at Sea, Scorched Tanks v1.77, New Printer Drivers & thats ust a few of the titles.

CD067 ILLUSIONS IN 3D £9.99

Contains awide selection of the most upto date 3d software and images for the PC and Amiga computers but the images can be used on almost all cdrom based computers. PC programs include - 3DV, 3d_view, ENC, Hidden, Mind Bend, PCXAuto, Perspect, PopOUT, PrPRO, RDSPro, RDSD8W, SIRDS, SIRDSA, TDL and Visiosud. AMIGA programs include - 3d Stereo-gram, ASG2d, SIRDGN, and the latest StereoCAD. IMAGES - includes hundreds of source images (before conversion), 3dicon images, and 3d images (40 images in PCX, IFF and BMP formats).

CD019# CD32 NETWORK PACKAGE

CD019# £34.99 Cable, CD & Disk

CD019 £14.99

The Network CD Sets up a link between a CDTV or CD32 and any other Amiga. The CD32 of CDTV act's as a CDROM DRIVE, allowing access to any of the above cdroms or other cds out for the amiga. It sets up a Workbench environment & disables the reset function, allow the CD to be changed and access to any other ISO9660. contains NComm, Twos, Term and PhotoCD Conversion, and loads of imgaes etc.

*CD128 SHUTTLE ENCYLOPEDIA £19.99

Comprehensive encyclopedia ever produced. It has 3015 GIF images, most in full colour, all royalty-free. It has text files about every mission. Each Shuttle mission is represented, in addition to catagories such as the 747 Shuttle Ferry, night images on the launch pad, and pictures of the instrumentation. Delve into the history & excitement of the Shuttle program, order this today!.

PRICE MATCH

* We will try and Price Match any advert in this magazine.

CD130 INTERNET INFO (APRIL 95) £19.99

The Internet Info CDROM contains a sample of the wealth of information that is available on the Internet. The Internet is the computer network linking thousands of universities, research labs, and high technology companies all over the world. You get 17,000 documents about computers and networks. Check it out before you add to your phone bills!. *(CD130+CD014 for £27.99)

CD014 INTERNET INFO £14.99

On the Internet Info CDROM, you will find Frequently Asked Questions (FAQs) for over a hundred news groups. Under alt.internet-services you will find answers to such questions as What kind of information is on the Internet? What is telnet? ...anonymous ftp? ...finger? When visiting in New Zealand, The range of subjects covered is amazing.

CD027 SPACE & ASTRONOMY £19.99

Contains 5000 text files fully readable on the CDROM. These files include info on asteroids, astronauts, NASA etc. Theres handy viewers to browse through the images on the disc and documents. Sysops get index files for rbbs, opus, pcboard, spitfire, maximus, & BBS software.

CD051 CLIP ART .IFF & .PCX VOLUME 1 £19.99

Compatible with all AMIGAs & PC computers.

Contains a huge collection of high res .PCX and .IFF images - Over 10,000 - that will add a professional touch to any newsletter, leaflet you create. Categories like Advertising., Aircraft, Alphabets, Animals & Wild Life, Antiques, Birds, Borders, Frames, Business, Cartoons, Cats, Children, Comical, Christmas, Computers, Dogs, Educational, Electrical, Family, Farming, Fish, Sea Shells, Flowers, Gardening, Food, Holidays, Houses, Buildings, Insects, logos, Maps, Medical, mediaeval, Myth, military, money, Music, Office, Olympics, People, Religion, Scenic, Scouts, Sports, Symbols, Tools, Transportation, and More.

CD052 PROFESSIONAL GIF PICTURES £19.99

Clip Art Professional GIF contains a huge collection of high resolution .GIF clip art image than can add a professional touch to any newsletter, leaflet or publication you create. 5,000 plus images have been selected from thousands of 256 colour scanned images of scantily clad babes, high performance super cars, exotic locations, etc. Amiga Format said "If you need a source of high-quality scanned images then look no further than this compilation 84%

Orders can be faxed on 01702 617123 or by the Internet - pdsoft@mymagic.demon.co.uk
Our Customer Support Line 01702 466933 operates from 10am to 6.30pm weekdays to handle any queries or trade inquries, Saturday sales lines are open from 10am to 5pm - sales only

For Credit and Debit Card orders, CALL PDSOFT Today

01702 466933

To: PDSOFT, 6/8 Durham Road, Unit 2, Southend-on-Sea, ESSEX, SS2 4LU.
Please send the following items (if you wish more items please use separate sheets). All Prices include VAT.

Qty	Code	Title of CDROM or items Title	Price

Postage & Packing - add .75p per title - AIRMAIL add an extra £1 for eec and £2 for non eec

Total

All orders placed with cleared funds will be dispatched same day by first class post. * item not out at time of going to press, ring for latest release dates or pre-order the item/s and ask for a discounted price. Make cheques, Postal Orders, Euro Cheques, Bank Drafts etc to PDSoft.

Your Name

Address

Post Code

Telephone No (Day time number)

Credit Card or Switch Number

Switch Issue No

Expiry Date 9

I am ordering from: Name of Magazine

The time,

On the '80s, no self-respecting yuppie could be seen without a smart black filofax in their hand. You might have been hopelessly incompetent, a person so muddled you couldn't organise a beerfest in a brewery, but if you had the filofax at least you would look the part.

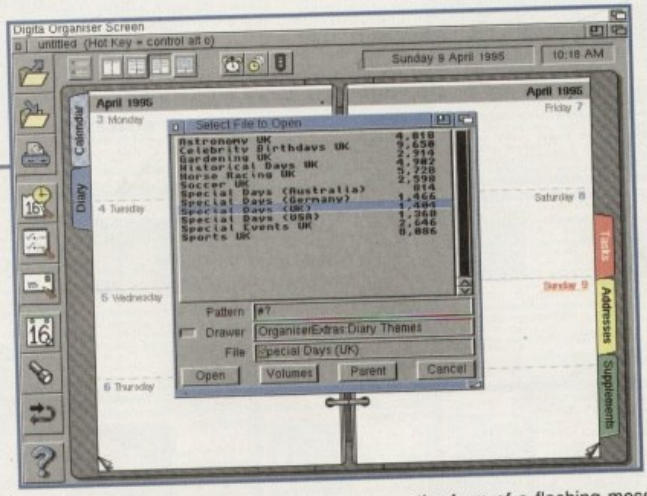
Fashion statement aside, these articles did prove to be pretty handy. It's good news, then, to see a new personal information manager on the Amiga that embodies the same handiness and visual appeal in a computerised package.

Created by Digita International, Organiser is intended to surpass their own Day by Day commercial diary program and improve on all the shareware and PD options available. Its most immediately obvious advantage will be its attractive, colourful front-end boasting the sort of user-friendly interface that has proved so successful in other Digita products.

Organiser can be run from floppy or can be installed onto a hard drive using the Commodore standard installer. Once up and running, the user is presented with a ring-bound filofax surrounded by a colourful toolbar reminiscent of that found in Wordworth 3.1.

As might be expected with a product from Digita, a lot of emphasis has been placed on making the package as simple to use as possible, so this software should be of general appeal. Consequently, finding your way around the organiser should be intuitive, with functions like page turning performed by clicking on the corner of the filofax.

Like Wordworth, Organiser features Digita's Human Interface Protocol, which in practice means the package can be controlled in numerous ways according to preference. Beginners may prefer to use the representational icons, for example, whereas those who want speed will probably pick up on the keyboard shortcuts available.



The diary can be made more interesting by including some of the event themes supplied as part of the package

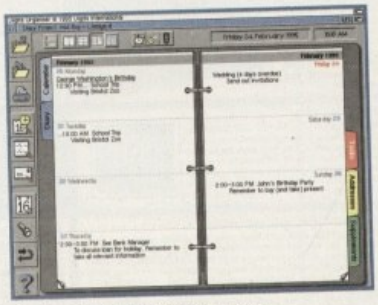
> It's easy to keep Organiser much neater than its pen and paper counterparts, and various tasks are undertaken automatically. For some people this could prove quite a time saver

Following the approach of a real filofax, Organiser is divided into five main sections, each accessed instantly by clicking on the coloured tab dividers. Naturally, the diary constitutes the main part of the package.

A novel addition to this section is that users can choose from a number of supplied themes to give their organiser a more personal appeal. Sporting events, historical entries or celebrity birthdays are just a few of the themes that can add a bit of interest to the diary.

REMINDERS

Entering information is simply a matter of selecting the required day and going through a familiar looking requester. At this stage the program allows you to choose a priority level for each date and, if required, select an alarm to remind you an hour, day or week before the event. This can be in the form of a flashing message or a noise sampled through Workbench 3 sound preferences.



Various views are available, from a page a day to a page a week

The diary allows users to select various ways of viewing their entries. If small entries are only being made you can select the option which puts a whole week on a page, whereas those requiring more space can have diaries with a whole page reserved for each date.

One of the benefits of having the filofax on your computer is the way repetitious tasks can be automated. It's possible to repeat events as necessary – for example your twice monthly squash game. Alternatively, the program allows event repetition on the same day every week.

A calendar section precedes the diary and highlights, in bold, any days with events for an at-a-glance idea of what lies ahead. Clicking on a particular date will instantly bring up the correct page in the diary – a simple but user-friendly touch.

The task list constitutes a separate section allowing users to generate a plan of things that need doing. When completed, these tasks can be ticked off on screen, and as in the diary there are five levels of priority to choose from for each item.

As you'd expect, addresses have their own section, and this part of the organiser again benefits from automisation. When you want to enter a new address, it's simply a matter of inputting the details into a database-style requester and it will automatically be filed under the correct letter in the book. Alternatively, addresses can be imported from other databases providing the files are in ASCII format.

A final quirky touch comes in the addition of Fortune Cookies. This will give a

Supplements

One of the key attractions of the filofax was the fact that you could buy information supplements that could be clipped into the folder as required. Imitating this, Organiser comes supplied with its own range of supplements covering a wide range of topics.

There are items you'd expect to find at the back of a proper diary, like conversion tables, dialling codes and world time zones. Less useful but more interestingly, there are lists of restaurants or wines that could be tagged on to the end of your Organiser.

This is yet another feature that allows you to build up a filofax with quite a customised, personal feel. What's more, it's possible to create your own supplements in Wordworth or any text editor. Though there are about 30 supplements to choose from, however, it's not really practical to use more than a few at any time. In fact, because the supplements use up your Amiga's RAM, they'll slow the program down if you use too many.

the place

Amiga diaries are nothing new, but up until now they've been rather dull. Gareth Lofthouse previews Organiser 1.0, Digita's electronic filofax for the '90s

word of wisdom for each day, though at the moment Digita have yet to complete this section of the program.

One of the most important aspects of Organiser is its printing facilities, since you may want to carry a hard copy version of your filofax. Thankfully, this software supports a huge variety of printers in the same way as Wordworth 3. It's possible to simply print pages in A4, but the best feature is the fact that it will print in the size of portable organisers like Fileofax, Rolodex, Day-Timer and Time Manager. Crop lines will appear showing users where to cut the page to the right proportions, and it's also possible to print on the other side.

WELL READ

Digita's manuals are always exemplary thanks to the fact they assume virtually no knowledge on the part of the purchaser. Organiser's documentation is very readable and includes the sort of step-by-step tutorials that will get anyone started very quickly. Having said that, the same information is repeated so many times in this product's literature that it sometimes seems like an exercise in padding.

Apart from this, there are the miscellaneous general features that can make a competent program into a classic. Digisense, for example, is a built-in intelligence facility designed to save time when inputting data. The auto date feature, for example, will automatically complete the date you are typing.

More laborious repetition can be avoided thanks to the cut and paste tools that have been included – these work just like in a wordprocessor. Digita have also included a powerful search tool that will find events, tasks, addresses or any other text.

File handling is another powerful and flexible element of the program. It's possible to share data with Wordworth, Mailshot Plus, Datastore and most other programs. These small details don't mean much in themselves, but they are bonuses that show how much Digita have learnt from their enduring experience in Amiga development. AC

Verdict

With Digita's Day by Day being the only commercial personal planner available prior to the release of Organiser, it's certainly good to see the new product shines in comparison to its rather dismal predecessor. Organiser 1.0 is colourful and appealing to view, and quick and easy to use – and that's how it should be.

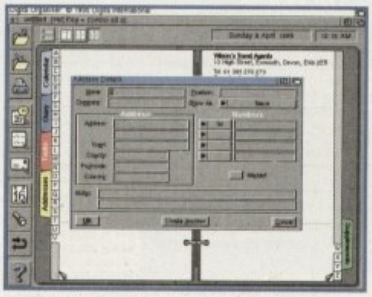
The only problem is whether anyone really needs a computerised filofax in the first place. After all, it could be argued that what the Organiser gains in novelty it loses in true portability.

On the plus side, it's easy to keep Organiser much neater than its pen and paper counterparts, and various tasks are undertaken automatically. For some people this could prove quite a time saver. The option to import information from other programs, the alarm reminder system and the various diary themes gives this software some valuable advantages over a real filofax.

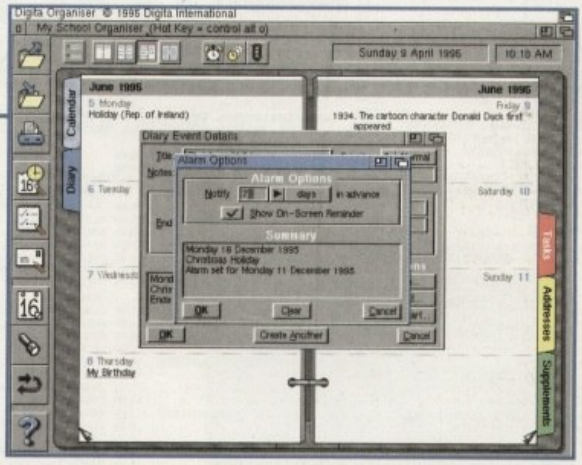
On the other hand the point about filofaxes is that you can consult them on the train, take them into meetings, or use them to find phone numbers at a pay phone. This is not possible with Digita's Organiser. True, it allows users to print up information in a portable form, but that's going to take a fair amount of additional effort.

Other problems include the fact that while you can have a number of people's filofaxes saved in Organiser, they will never be as accessible as the real thing. What happens when Dad wants to view his appointments for the next day but his son Nigel is hunched over the Amiga playing Alien Breed well into the evening ?

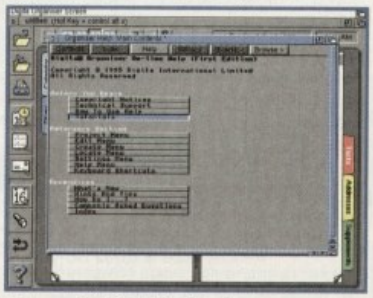
There's no doubt that Digita have done a very professional job with this package, and it's so simple to use that members of the family who've never touched a computer could quickly compile there own computer filofax. But whether it was worth the effort will depend very much on the individual customer.



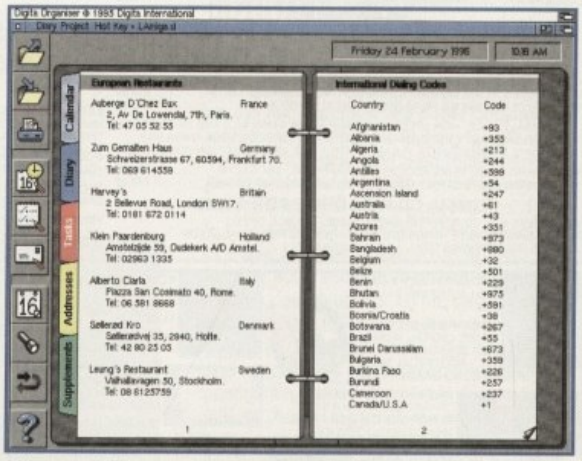
Addresses are entered using this simple requester and automatically filed in the correct place



The absent minded can set alarms for themselves which will remind them in the form of flashing messages or sampled sounds



A key part of the Digita interface, the help option should resolve the few problems that might arise



Like a true filofax, supplements can be added to Organiser to customise the program to your liking

1ST ENCOUNTERS
19.99 OR 19.49 A1200

SUB WAR 2050
14.49 A1200

WORLD OF SOCCER
19.49

UFO
12.99 1MB OR A1200

WING COMMANDER
5.99

SUPER SKIDS
20.99

PHOTOGENICS
47.99

PLEASE NOTE

NOP = will not work on A500 Plus, A600 or A1200
NO12 = will not work on A1200
512K = will not work on 512k machines
• = NEW Item
XS SAVER = Additional saving deduct amount shown until date shown

A1200 GAMES

AIR BUCKS V1.2 ..... 11.99
ALADDIN 19.49
ALIEN BREED 3D 19.99
BANSHEE 16.49
BODY BLOWS 11.99
CIVILISATION AGA 16.99
COLONIZATION 24.99
DREAMWEB 22.49
DUNGEON MASTER 2 ..... 22.49
FIELDS OF GLORY 12.49
FOOTBALL GLORY 14.99
FRONTIER - FIRST ENCOUNTERS 19.49
FRONTLINES 22.49
GUARDIAN 19.49
HEIMDALL 2 - BANE OF ASGARD 18.99
HIGH SEAS TRADER 22.49
IMPOSSIBLE MISSION 22.49
JAMES POND 3 ..... 10.99
JAMES POND COLLECTION
JAMES POND 2 & 3 ..... 11.99
JUNGLE STRIKE 12.99
KINGPIN 9.99
LION KING 19.49
NEW WORLD OF LEMMINGS 19.49
XS SAVER - DEDUCT £3 UNTIL JUNE 30
ON THE BALL (HARD DRIVE ONLY)
- LEAGUE EDITION 12.49
- WORLD CUP EDITION 12.49
PGA EUROPEAN TOUR 12.99
PINBALL ILLUSIONS 19.49
PREMIER MANAGER 3 ..... 16.49
ROAD KILL 20.99
RYDER CUP 8.99
SHADOW FIGHTER 19.49
SIM CITY 2000 (HARD DRIVE AND 5MB RAM REQUIRED) 22.49
SIM LIFE (1.5MB RAM REQUIRED) 12.49
SIMON THE SORCERER 14.99
STAR TREK - 25TH ANNIVERSARY (HARD DRIVE ONLY) 15.49
SUB WAR 2050 ..... 14.49
SUPER LEAGUE MANAGER • 19.49
SUPER STARDUST 18.99
XS SAVER - DEDUCT £3 UNTIL JUNE 30
TFX 25.99
THEME PARK 22.49
UFO - ENEMY UNKNOWN 12.99
ULTIMATE FOOTBALL MANAGER 21.99
VIROCOP • 19.99

AMIGA GAMES

A-TRAIN + CONSTRUCTION SET 10.49
A10 TANK KILLER 12.99
ALIEN BREED - TOWER ASSAULT 13.49
XS SAVER - DEDUCT £2 UNTIL JUNE 30
ARCADE POOL 7.99
AWARD WINNERS 3
CIVILISATION, ELITE 2, LEMMINGS **20.99**
B17 FLYING FORTRESS 12.99
BEAU JOLLY COMP
CANNON FODDER, SETTLERS, CHAOS ENGINE, T2 ..... **17.99**
BENEATH A STEEL SKY 19.49
BIG 100 (100 SHAREWARE GAMES) 8.99
CANNON FODDER 12.99
CANNON FODDER 2 ..... 19.49
CAPTIVE 2 - LIBERATION 8.99
CHAMP MANAGER 93/94 ..... 6.99
CHAMP MANAGER 94/95 END OF SEASON DATA DISK 12.99
CHAMP MANAGER COLL (93/94 + UPDATE DISK) 14.99
CHAMP MANAGER COLL (95 EDITION) 18.99
CHAMP MANAGER ITALIA 93/94 ..... 4.99
CHAMP MANAGER ITALIA 95 ..... 16.49
CHAOS ENGINE (512K) 9.49
CLASSIC COLLECTION - DELPHINE
FLASHBACK, CRUISE FOR A CORPSE, ANOTHER WORLD, OPERATION STEALTH, FUTURE WARS **20.49**
CLUB FOOTBALL - THE MANAGER 14.99
COMBAT CLASSICS 3
HISTORYLINE, CAMPAIGN, GUNSHIP 2000 ..... **19.49**
DAWN PATROL 22.49
DESERT STRIKE 10.99
ELITE (512K) 4.99
ELITE 2 (FRONTIER) 14.49
FIELDS OF GLORY 13.99
FIFA INTERNATIONAL SOCCER 19.49
FINAL OVER - ARCADE SPORTS CRICKET 11.49
FOOTBALL DIRECTOR 2 ..... 4.99
FORMULA 1 GRAND PRIX (512K) 10.49
FORMULA 1 MASTERS 20.99
FRONTIER - FIRST ENCOUNTERS 19.99
GUNSHIP 2000 ..... 14.99
GLOOM ("DOOM" CLONE) • 20.99
HEART OF CHINA 12.99
INDY JONES FATE OF ATLANTIS ADV 13.99
INNOCENT 9.99
JUNGLE STRIKE 12.99
KINGPIN 9.99
KNIGHTS OF THE SKY 12.49
LEMMINGS 2 ..... 9.99
LORDS OF THE REALM 21.49
MICRO MACHINES (512K) 12.99
MONOPOLY (512K) 13.99
MORTAL KOMBAT 2 ..... 19.49
MR BLOBBY (512K) 5.99
NEW WORLD OF LEMMINGS 20.99
XS SAVER - DEDUCT £3 UNTIL JUNE 30
ON THE BALL
- LEAGUE EDITION 12.49
- WORLD CUP EDITION 12.49
OVERLORD 19.49
PGA EUROPEAN TOUR 12.99
PINBALL DOUBLE PACK
PINBALL DREAMS & FANTASIES **17.49**
POWERDRIVE 13.49
PREMIER MANAGER 2 ..... 9.99
PREMIER MANAGER 3 ..... 16.49
PREMIER MANAGER 3 EDITOR 12.99
SECRET OF MONKEY ISLAND 12.99
SECRET OF MONKEY ISLAND 2 ..... 12.99
SENSIBLE GOLF 19.49
SENSIBLE WORLD OF SOCCER 19.49
SETTLERS 15.49
SPEEDBALL 1 & 2 (512K) 8.49
SUPER LEAGUE MANAGER • 19.49
SUPER SKID MARKS 20.99
SYNDICATE 12.99
THEME PARK 22.49
UFO - ENEMY UNKNOWN 12.99
VIROCOP • 19.99
WING COMMANDER 1 ..... 5.99
WORLD CUP YEAR 94
GOAL, CHAMP MANAGER 94 + DATA DISK, STRIKER, SENSIBLE SOCCER **13.99**
ZEEWOLF 19.49
XS SAVER - DEDUCT £3 UNTIL JUNE 30
ZOOL 2 ..... 8.99

CD32 GAMES

A.T.R. (TEAM 17) 18.99
ALIEN BREED - TOWER ASSAULT 19.99
XS SAVER - DEDUCT £2 UNTIL JUNE 30
ALIEN BREED 3D 20.49
ARCADE POOL 9.49
BENEATH A STEEL SKY 19.49
DIZZY - THE BIG SIX 9.49
ELITE 2 (FRONTIER) 14.99
FRONTIER - FIRST ENCOUNTERS 19.49
GUARDIAN 19.49
GUNSHIP 2000 ..... 16.49
JUNGLE STRIKE 18.49
KINGPIN 12.49
LEMMINGS 6.99
LITIL DIVIL 18.99
LOST EDEN 22.49
PINBALL ILLUSIONS 19.49
PIRATES GOLD 14.49
ROAD KILL 20.99
SENSIBLE SOCCER - INT'L EDITION 12.99
SHADOW FIGHTER 21.99
SIMON THE SORCERER 14.99
SIMON THE SORCERER 2 ..... 23.99
SKELETON KREW 21.99
SPEEDBALL 2 ..... 12.49
SUB WAR 2050 ..... 16.49
SUPER STARDUST 18.99
XS SAVER - DEDUCT £3 UNTIL JUNE 30
THEME PARK 22.49
TRIVIAL PURSUIT 10.99
UFO - ENEMY UNKNOWN 16.49

A1200 UTILITIES

ACID BLITZ COMPILER VERSION 2. THE LATEST UPDATE TO THE POPULAR BLITZ BASIC. WITH 100'S OF NEW COMMANDS, AGA CONTROL, INLINE ASSEMBLER AND A NEW UPGRADED DEBUGGER 28.99
BRILLIANCE V.2 AGA. PREMIER PROFESSIONAL ART PACKAGE. (HARD DRIVE REQUIRED) 48.99
PC TASK V.3. SOFTWARE PC EMULATION SYSTEM, WINDOWS COMPATIBLE WITH A4000. REQUIRES DOS 3.3 OR ABOVE. 59.99
PHOTOGENICS THE ULTIMATE GRAPHICS AND MANIPULATION PROGRAM WITH MULTIPLE FILE FORMAT SUPPORT AND MANY EDITING FEATURES. 47.99
VISTA PRO (LITE) CREATE SPECTACULAR VIRTUAL WORLDS WITH THIS POWERFUL SCENERY CREATOR AND ANIMATOR. (HARD DRIVE REQUIRED) 26.99
WORDWORTH V.2 AGA WORD PUBLISHER (EXTERNAL DISK OR HARD DRIVE REQUIRED) 32.99
WORDWORTH V.3.1 AGA PREMIER WORD PUBLISHER PACKAGE. (EXTERNAL DISK OR HARD DRIVE REQUIRED) 57.99

AMIGA UTILITIES

DATASTORE DATABASE SYSTEM. SIMPLE TO USE, FULLY FEATURED, THOROUGH DATABASE SYSTEM **44.99**
DELUXE PAINT 3. VERY POWERFUL ART AND ANIMATION PACKAGE WITH EXTENSIVE FEATURES. 9.99
DELUXE PAINT 5. ART, DESIGN AND ANIMATION PACKAGE FEATURING FULL 24 BIT TRUE COLOUR RGB EDITING. (INSTALLABLE, WORKBENCH 2.04+) 57.99
HOME ACCOUNTS. BEST SELLING MONEY MANAGING APPLICATION. (INSTALLABLE) 9.99
KINDWORDS 3. FULLY FEATURED WORD PUBLISHER. (INSTALLABLE) 21.99
MINI OFFICE. INTEGRATED WORD PROCESSOR, SPREADSHEET, DATABASE AND DISK UTILITIES. (INSTALLABLE) 32.99
MONEY MATTERS (HOME ACCOUNTS 3). (INSTALLABLE) 36.99
PEN PAL. EASY TO USE WORD PROCESSOR WITH MANY FUNCTIONS. (INSTALLABLE) 27.99
TERMITE COMMUNICATIONS PACKAGE. COMPLETE COMMUNICATION TERMINAL PACKAGE REQUIRES 1MB RAM AND KICKSTART 2.04+ 32.99

A600 + SOFTWARE
225.00

CD32 + SOFTWARE
179.99

OVERDRIVE 560MB
249.99

ABC COLOUR PRINTER
144.99

MICROVITEC 1438
279.99

14,400 FAX MODEM
149.99

VIDI AMIGA 12
51.99

AMIGA A600 & CD32 BUNDLES

AMIGA A600 1/0 WILD, WEIRD & WICKED + CHAOS PACK. INCLUDES F1 GRAND PRIX, SYNDICATE, CHAOS ENGINE, NICK FALDO'S GOLF, PINBALL FANTASIES, PUSH OVER, PUTTY AND DELUXE PAINT 3. BUILT-IN TV MODULATOR, MOUSE, WORKBENCH 2.0, 1 MB RAM EXPANDABLE TO 10 MB 225.00
AMIGA CD-32 CRITICAL ZONE PACK WITH CANNON FODDER, LIBERATION, MICROCOSM, ULTIMATE BODY BLOWS, PROJECT X, DIGGERS AND OSCAR CDs AND ONE CONTROL PAD 179.99

HARD DRIVES

HIGH SPEED OVERDRIVE EXTERNAL DRIVE STYLED TO MATCH AMIGA. PLUGS INTO PCMCIA SLOT. ACCESS TIME CIRCA 12 MS. COMPLETE WITH INSTRUCTIONS, AQ TOOLS DISK & 1 YEAR WARRANTY.

OVERDRIVE V.11 210 MB HARD DRIVE FOR A1200 OR A600 ..... 179.99
OVERDRIVE V.11 420 MB HARD DRIVE FOR A1200 OR A600 ..... 219.99
OVERDRIVE V.11 560 MB HARD DRIVE FOR A1200 OR A600 ..... 249.99

INTERNAL 2.5" IDE, HIGH SPEED DRIVE FOR AMIGA A1200, A600 AND SX-1 WITH 1 YEAR WARRANTY. KIT COMPLETE. NOTE THAT OPENING YOUR AMIGA MAY INVALIDATE THE WARRANTY. PLEASE STATE A1200, A600 OR SX-1 ON YOUR ORDER

64 MB HARD DRIVE 15 MS ACCESS TIME (APPROX). 32K CACHE 109.99
170 MB HARD DRIVE 13 MS ACCESS TIME (APPROX). 64K CACHE 149.99

PCMCIA CD ROM DRIVE FOR A1200

OVERDRIVE V.11 CD ROM FOR AMIGA A1200. DOUBLE SPEED MULTI-SESSION DRIVE COMPLETE WITH INTERNAL POWER ADAPTOR AND UTILITIES/DRIVERS DISK. 1 YEAR WARRANTY. 189.99

MONITORS

MICROVITEC 1438 MULTISYNC MONITOR FOR AGA AMIGAS WITH **FREE** STEREO SPEAKERS. 0.28 DOT PITCH MPRII LOW RAD EMISSIONS. SIGNAL/POWER LEAD SUPPLIED WITH AMIGA ADAPTOR. SUITS ALL AMIGA AGA SCREEN MODES. 1 YEAR WARRANTY 279.99
PHILIPS CM8833 MKII MONITOR. 14" COLOUR WITH BUILT IN STEREO SPEAKERS. COMPOSITE AND RGB INPUTS. 0.39 DOT PITCH RESOLUTION. 1 YEAR WARRANTY. MONITOR LEAD REQUIRED 199.99

PRINTERS

CITIZEN ABC COLOUR DOT MATRIX PRINTER 24 PIN, 80 COLUMN, 192 CPS, 5LQ/1 DRAFT FONT, **FREE** LEAD AND EASYSTART SOFTWARE ... 144.99
CANON BJC 4000 COLOUR INKJET PRINTER 64 NOZZLES, 80 COLUMN, 8PPM, 360 DPI, 5 FONTS AND **FREE** PRINTER LEAD 309.99

OTHER PERIPHERALS

EXTERNAL 14,400 FAX/MODEM WITH TERMITE SOFTWARE. BT APPROVED, MNP 5/V.42 BIS COMPRESSION GIVING UP TO 57,600 BPS. INCLUDES CABLES, TERMITE SOFTWARE AND **FREE** INTERNET STARTER GUIDE 149.99
GOLIATH AMIGA HIGH POWER SUPPLY. HIGH POWER 200 WATTS SUPPLY (CD32 VERSION ALSO AVAILABLE) 49.99
TECHNOSOUND TURBO 2 SOUND SAMPLER EXCELLENT VALUE SOUND SAMPLER WITH QUALITY SOFTWARE, 1 MB REQUIRED 29.99
VIDI AMIGA 12 AGA COLOUR VIDEO DIGITISER FOR ANY AMIGA PLUGS INTO PARALLEL PORT AND INCLUDES EXTENSIVE SOFTWARE ALLOWING FULL EDITING ON IMAGE OR ANIMATION GRABS 51.99

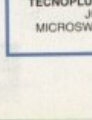
QUICKSHOT 137F PYTHON WITH AUTOFIRE **9.99**

KONIX SPEEDKING JOYSTICK WITH AUTOFIRE **11.99**

SAITEK MEGAGRIP 2 WITH AUTOFIRE... **11.99**

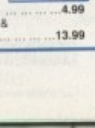
ALFA MEGAMOUSE 400 DPI RESOLUTION, 2 BUTTONS AND LONG CORD. PERFECT FOR ALL AMIGA APPLICATIONS... **13.99**

QUICKJOY FOOT PEDAL TRANSFERS ANY JOYSTICK FUNCTIONS TO FOOT PEDALS. WORKS WITH JOYSTICK OR STEERING WHEEL... **12.99**



TECNOPLUS SUPER PRO ZIP STICK JOYSTICK FOR AMIGA/ST. MICROSWITCHED WITH AUTOFIRE **9.99**

EKLIPSE MOUSE 290 DPI RESOLUTION, 2 BUTTON WITH LONG CORD AND FREE MOUSE MAT **10.99**



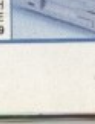
MOUSE MAT WITH SPONGE BACKING **4.99**
ROBOSHIFT INTERFACE PLUG MOUSE & JOYSTICK IN ONE PORT **13.99**

DISKS ETC.

ALL SPECIAL RESERVE DISKS ARE BRITISH MADE, ERROR FREE AND COME WITH LABELS

PACK OF 10 SPECIAL RESERVE DSDD 3.5" DISKS FREE PLASTIC FLIP TOP DISK BOX. 6.99
PACK OF 10 TDK MF-2DD 3.5" DISKS 7.99
PACK OF 50 SPECIAL RESERVE DSDD 3.5" DISKS WITH LABELS 19.99
PACK OF 50 TDK MF-2DD 3.5" DISKS 22.99

EXTERNAL DISK DRIVE FOR AMIGA OR SX-1
3.5", 880K FORMATTED CAPACITY, QUIET, HIGH QUALITY, SLIM LINE DESIGN, COLOUR MATCHED METAL CASE AND LONG REACH CONNECTION CABLE **49.99**



MONTHLY
48-PAGE COLOUR
CLUB MAGAZINE
CHEATS & MOVES
RELEASE SCHEDULE
CHARTS
REVIEWS
HUGE RANGE
ALL GENUINE
UK PRODUCTS
HEAVY DISCOUNTS
XS SAVERS
BONUSES
WIN A SONY
PLAYSTATION

Membership Card Sales: 01279 600204

Special Reserve
The Discount Club

10am to 8pm 7 days a week!
01279 600204
Or Fax 01279 726842 - we'll confirm receipt
Members only but you can order as you join.
Annual UK Membership £7
Includes 12 issues of the club magazine with £180 worth of XS Savers.

Over 250,000 people have joined Special Reserve and we are the largest computer games club in the world.
We also have two very impressive club shops which stock our entire range.

SPECIAL RESERVE CLUB SHOPS

10am 'til 8pm 7 DAYS A WEEK!

CHELMSFORD, ESSEX
43 Broomfield Road. Just around the corner from the bus station.

SAWBRIDGEWORTH, HERTS
The Maltings, Station Road. A few miles from the M11, near the train station.
Items bought in the shops carry a 50p surcharge on the Mail Order prices.

UNLESS STATED ALL PRICES INCLUDE VAT & DELIVERY

GENUINE INTEL DX4/75 OR DX4/100 PROCESSOR + 256K CACHE
GENUINE SOUND BLASTER PRO SOUND CARD WORTH £150
GENUINE CREATIVE QUAD SPEED IDE CD ROM DRIVE
GENUINE SAMSUNG 14" SVGA 0.28 MONITOR + TILT AND SWIVEL
GENUINE SAMSUNG HIGH SPEED 560 MB HARD DRIVE + SPARE IDE
GENUINE MICROSOFT SOFTWARE BUNDLE WORTH OVER £500

TRUST QUAD MULTIMEDIA PC EX VAT
DX4/75 + 4MB RAM ... 1229.99 ...1046.80
DX4/75 + 8MB RAM ... 1359.99 ...1157.44
DX4/100 + 8MB RAM ... 1419.99 ...1208.50
DX4/100 + 16MB RAM ... 1559.99 ...1327.65

WITH ALL THIS AND FREE TWO YEAR ON-SITE WARRANTY
PRICES AND SPECIFICATION SUBJECT TO CHANGE

WE ONLY SUPPLY MEMBERS BUT YOU CAN ORDER AS YOU JOIN

MEMBERSHIP FEES	UK	EC	WORLD
ONE YEAR (12 ISSUES)	£7.00	£9.00	£11.00
SIX MONTHS (6 ISSUES)	£4.00	£6.00	£7.00

Each issue includes £15 of new XS Savers. Members are under no obligation. All prices include VAT and carriage to MOST UK mainland addresses.

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

POCK

(BLOCK CAPITALS please)
Name & Address

Postcode
If Mac or PC please state DISK or CD ROM

Phone No Machine

Enter membership number (if applicable) or
NEW MEMBERSHIP FEE (ANNUAL UK 7.00)

Item

Item

Item

Please use this box to add any **optional** fast delivery charge
1st Class Post 50p per posted item or **£10 hardware**

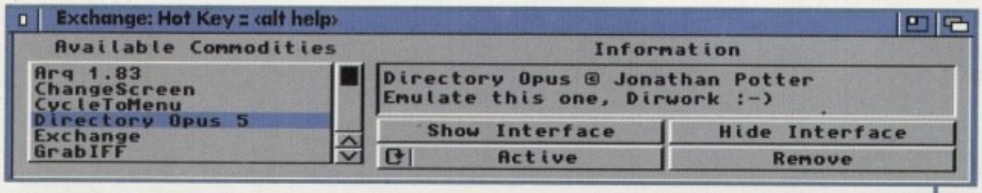
ALL PRICES INCLUDE UK POSTAGE & VAT
Cheque/P.O./Access/Mastercard/Switch/Visa £

CREDIT CARD
EXPIRY DATE SIGNATURE SWITCH (ISSUE NO)

Mail Order address. Cheques payable to:
SPECIAL RESERVE
P.O. BOX 847, HARLOW, CM21 9PH
or FAX a credit card order on 01279 726842 - and we'll FAX back.

Inevitably some games listed may not yet be available. Please phone to check availability. Prices may change without prior notification. Time of going to press 16.5.95 E. & O.E.
SAVE = Saving off full retail price. Inter-Mediates Ltd, The Maltings, Sawbridgeworth, Herts

AMIGA COMPUTING



Cock a snook at DirWork, would you? I bet Chris Hames is working feverishly on a riposte!

Magnum Opus

Frank Nord closely examines the latest episode in the Directory Opus saga

Directory Opus has been long awaited. Since the first murky screenshots appeared in magazines late last year, breath has been baited, wallets clutched, murmurs of concern were heard when Jonathon Potter announced he wasn't going to be using his stablemates of old, Inovatronics, to distribute this multi-tasking beast.

But here it finally is, and the metamorphosis has been even greater than could be imagined. We were all ready for a larger amount of configurability, prepared for a new windowing system, we had even set our shoulders in grim determination when we heard you could have more than the standard two directory windows open at the same time. What I certainly wasn't prepared for was the fact that Directory Opus 5 could replace Workbench altogether. That's right, you don't even need to load Workbench at all.

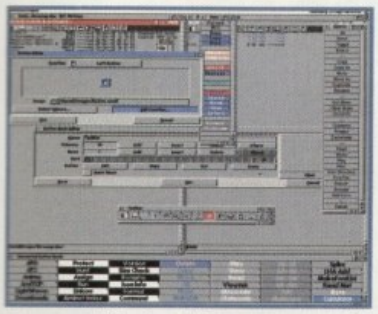
ANOTHER WORLD

If you choose the 'Replace Workbench' option, everything seems perfectly normal, there doesn't seem to be any difference. But as soon as you open a window on your Workbench screen, oh boy, you sure are in a different world. By default, DOpus doesn't fill its windows with icons. Although you do have that option, the default is actually to fill the windows like, well, like a file manager should. A burst of little icons fills the top edge of each window, letting you perform all the essential operations any file manager should be capable of such as copying, renaming and deleting.

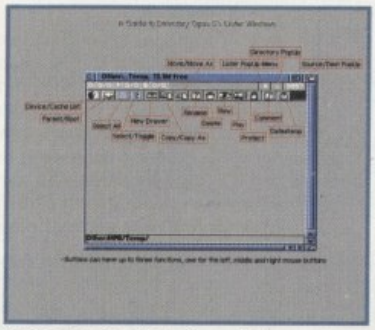
Running DOpus as a Workbench replacement seems like a really neat idea at first. Anyone who has played with Norton Desktop for Windows will know what I mean. It's funky to open your hard drive's window and find everything listed as text, with the ability to copy, move, rename, delete, etc. right at your finger tips in the window itself.

It's also nice not to have your entire Workbench screen filled with windows as you move through sub-directories. DOpusbench will let you do this if you want, but normally it will only replace the files shown in the window with the sub-directory's contents, as you would expect. But soon you get a bit fed up at the loss of all those customisations you had on Workbench.

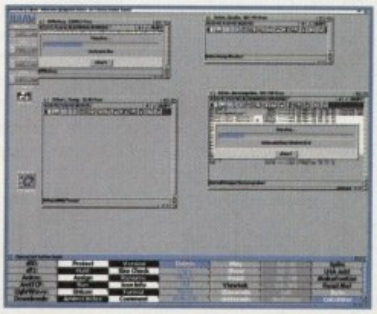
Apart from its looks, things have changed under the bonnet too. Directory Opus 5 is now a fully multi-threaded, multi-tasking package with the ability to perform several operations concurrently. One of the screenshots on these pages shows the contents of a disk being copied to a directory on my hard drive, while another pair of windows are being used to copy some files from another partition into RAM:. This ability is particularly useful for anyone who wants to copy files onto several disks at once, because you would be able to have as many copy operations going as the number of floppy drives you had.



How many button bars did you say you wanted?



Is this enough gadgets for you?



The directory manager is faster than the eye as DOpus 5 copies between two pairs of directories at the same time

OUTSTANDING

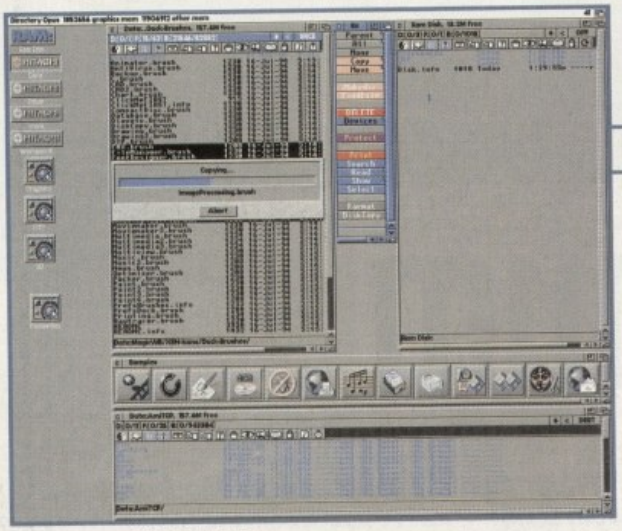
There are some really nice features with this new version. The ability to perform several operations at once must rank highest on the list, but there are some outstanding tools that vie with multi-tasking for attention. The ability to drag and drop more than one file at a time is a definite bonus, along with filetypes which are saved out with icons.

I think we will soon be seeing collections of these filetypes uploaded to Aminet, performing such esoteric functions as displaying imagine objects or HTML pages and so on. The fact that the built-in viewer now supports datatypes should be applauded and will certainly cut down on the amount of configuration that needs to be done to show GIF, PCX and Jpeg pictures or play VOC or WAV sounds. I liked the new ability to use the keyboard to navigate DOpus' interface.

Slight confusion

The manual could stand some improvement. It's very nicely laid out, but the index is fairly poor and there are several typos and things that look like typos, but are, in fact, design elements. They have used the Right Amiga symbol that appears in menus to show that you are reading about a menu item. But this symbol is usually used in a manual to show the keyboard shortcut for that command, which makes things even more confusing because they don't show the shortcut – they are just in the manual on their own. One of the real disasters comes when you read the information about the internal 'Finish Section' command – it gave an example that sounded very useful indeed. The manual said you could get DOpus to beep when it had finished an operation, and the example given was using LHA.

I use LHA all the time and thought that given DOpus 5's ability to multi-task, it would be very useful to get it to beep on finishing the LHA compressing or decompressing. I followed the instructions down to the last letter until I came to the internal command 'Beep.' There isn't one.



Your Dopus could look like this...

...but I think most people's will end up looking like this.

➤

Instead of swapping source and destination windows as it used to do in DOpus 4, the space bar now switches on keyboard mode. To show this you are given a little arrow cursor in the active directory window which you can move up and down with the cursor keys. Selecting files is done with the return key and double-clicking on them can be emulated with the Enter key on the numeric pad.

The context sensitive on-line help is also useful, although I would have liked to see slightly more index entries. One other thing I liked was that DOpus 5 now caters for the three button mouse owner too. Most buttons can be configured for three different operations depending on the mouse button used, giving even more flexibility (all the same, I think I'll still use my middle mouse button to swap between screens rather than use it in DOpus).

However, if you've seen the requirements for DOpus at the bottom of this page, you will have noticed that you can no longer take it with you when you go to rescue a friend's hard drive. The price for all these added elements is the increased size of the application. It still comes on one disk – it only takes up about 800k of hard drive space – but that doesn't really leave enough room on the disk to install workbench as well.

One of the other features which had me slightly confused until I ran DOpusbench is an icon on DOpus's screen called 'Favourites.' This is a 'Program Group.' The reason for it became clear when I realised that running DOpusbench means you lose ToolsDaemon and ToolManager even though DOpus has the ability to show entries added to the Tools menu.

PROGRAMS

These program groups are where you are supposed to drag your most-used programs to to save you having to click through directories to get at them. You can have as many as you like and they can be called whatever you like, but it reminded me too much of Windoze, so I gave up on the idea of using them almost as quickly as I did on using DOpusbench.

The default configuration is, unlike DOpus 4's, pretty unusable, so there is no alternative but to configure the program to meet your needs. However, configuration has gone from one button in the bottom-right corner of the DOpus 4 interface to not one, not two, but eight separate menu items scattered from one end of the title bar to the other. I understand that each of these preferences tools are discrete, multi-tasking programs in their own right, but couldn't we have had them all in one place?

One of the really annoying problems with this schizophrenic configuration method is that keyboard shortcuts get duplicated. On my DOpus I like to have the Delete key as the shortcut for deleting files, surprisingly enough. When I hit the Del key in DOpus 5, however, I get a Lister Format window appear. Now, I've scoured the manual for a way to stop this from happening so that I can be re-acquainted with my Del key, but all it smugly tells me in the manual is the fact that not only can I use the Lister Status PopUp menu to call up this Lister Format window, I could also double-click with my right mouse button in the lister.

What it doesn't say is that the Del key also works, nor does it tell me how to stop it from working. Two methods for calling up this window seem ample to me, why AC

In the wrong direction?

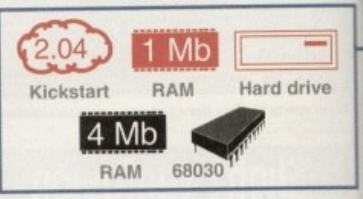
As you can probably guess from the text on these pages, DOpus 5 has got me really frustrated. It certainly is different from DOpus 4 and pretty much any other file manager, and is a lot more ambitious in its scope. But it is so much of a paradigm shift that it makes me wonder if anyone is going to use it to its full potential.

I have always plugged DOpus 4 in my various reviews and features, basically telling everyone that if they were to only ever buy one piece of software, then that should be it. So I, possibly more than others, feel disappointed that the clean interface DOpus 4 presented to the world has been swapped for something that could almost have been designed by Macro Systems (no offence, guys). Directory Opus' changes make me wonder about change for change's sake. Progress has once again triumphed over common sense, and what was an incredibly good file manager with only two flaws (not selecting .font files when the font directory was chosen and not being able to discern between two floppies with the same name) has become something that will require more maintenance than your hard drive.

I think what will happen for the vast majority of people is that they will load their old DOpus 4 config file and then not bother with the new configuration abilities of DOpus 5. And guess what? DOpus 5 still can't tell the difference between two floppies with the same name.

SYSTEM ESSENTIALS

RED = Essential **BLACK** = Recommended



The bottom line

Product: Directory Opus 5
Supplier: Wizard Developments
Price: £49.99
Tel: 01322 277908

Ease of use 6
Implementation 8
Value for money 8
Overall 8

CLOCK CARTRIDGE

SAVE £5 WHEN YOU BUY BOTH

Our unique and highly rated external clock cartridge will enable your Amiga to continually store the correct time and date in its own battery backed memory. Simply plugs onto the back of the Amiga and does not invalidate the warranty. Compatible with ALL Amigas.

IDEAL FOR A1200

ONLY £19.99
(Plus £1.00 postage and packing).

HARD DRIVES

Our high speed 2.5' IDE hard drives for the A1200 & A600 computers come complete with fitting cable, screws, partitioning software, full instructions and 12 months guarantee. All drives supplied by us are tested, formatted, partitioned and have Workbench installed for immediate use. Fitting is incredibly simple; if you can plug the mouse into the mouse socket, you will be able to plug the hard drive into the hard drive socket!
Free while-you-wait fitting for personal callers.

20mb	£ 89.99	210mb	£194.99
40mb	£ 99.99	258mb	£204.99
85mb	£109.99	344mb	£249.99
127mb	£134.99	405mb	£299.99
170mb	£179.99	540mb	£449.99

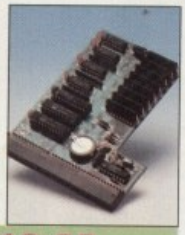
FREE
"HOW TO FIT YOUR HARD DRIVE" video and Stakker disk to increase the drives capacity with every hard drive purchased.

MEMORY EXPANSIONS

A1200 32 bit FASTRAM memory expansions feature a battery backed clock and an accelerator FPU socket. Easy trapdoor installation.

2mb	£118.99	33mhz 68882	FPU	£59.99
4mb	£178.99	40mhz 68882	FPU	£79.99
8mb	£319.99			

NEARLY DOUBLES THE SPEED OF THE A1200



A600 memory expansions
1mb without clock £34.99
1mb with clock £39.99

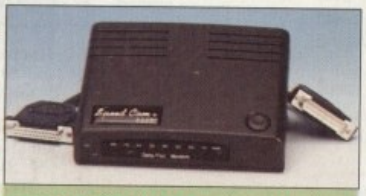
SAVE £10.00
if you purchase an FPU at the same time as a memory expansion.

Excite your Amiga

SPEEDCOM Modems

Our highly rated, top quality, feature packed modems are probably the best modems available for use with the Amiga. All modems include our **FREE MODEM ACCESSORIES PACK (worth £19.99)** which includes a cable to connect the modem to the Amiga, NCOMM3 comms software and an Amiga Guide to Comms. Features:- MNP 2-4 error correction MNP 5 data compression, Fax class 1&2, Group 3. Hayes compatible, 80 page manual, 12 month warranty. **GP FAX Software** £39.99 **TERMITE** £39.99

SPEEDCOM+B (14,400 V32bis)	£119.99
SPEEDCOM+ET (19,200 V32Terbo)	£149.99
SPEEDCOM+BF (28,000 V34 & VFC)	£199.99
XLINK 14,400 BT appro	£134.99
XLINK 28,800 BT appro	£224.99



AMIGA FORMAT 85% RATING

NEW RANGE
APOLLO
POWER HARD DRIVES & ACCELERATORS

APOLLO A1230 Accelerators 1230 TURBO

Turbo 50 version includes 68030 CPU+MMU 50mhz
Turbo 28 version includes 68030 CPU+MMU+FPU 28mhz. Up to 64mb of Autoconfiguring Fastram 72mb/sec data transfer rate SCS12 controller built in with transfer rates up to 3.5mb/sec.
Real time battery backed clock. 2 SIMM sockets for 72pin simms. 1, 2, 4, 8, 16 or 32mb simms.Turbo 50 light includes 50mhz 68030, FPU socket, 1Simm socket and connector for optional SCS12 adaptor.

A1230 Turbo 50 light	£199.99
A1230 Turbo 50	£269.99
A1230 Turbo 28	£189.99
4mb SIMM	£139.99
8mb SIMM	£289.99

50 MHZ 68030 FROM £199.99

APOLLO A500/1500 HARD DRIVES

IDE interface for Amiga A500/A500+ and A1500 computers. Easy to fit. Uses standard 3.5' IDE hard drive.

Interface only	£79.99
Interface with 100mb hard drive	£189.99
Interface with 365mb hard drive	£229.99
Phone for other sizes.	
A1500 IDE/SCSI/RAM card	£129.99

NEW RANGE

A500/A500+ & A1500 ACCELERATORS

68020 processor complete with 68881 co processor running at 28mhz speeds up your A500 by ten times! Up to 4mb of RAM can be added. Plugs onto the expansion connector and has a through connector for other peripherals. Can also be attached inside the Apollo A500 hard drive interface.

A500 Accelerator	£149.99
A1500 68030+68882 25mhz+SCSI	£349.99
A1500 68030+68882 50mhz+SCSI	£499.99

NEW RANGE

ALSO AVAILABLE

3.5' HARD DRIVE FITTING KIT (A1200)	£17.50	INTERNAL REPLACEMENT FLOPPY DRIVE	£44.99
A600/A1200 CD ROM drive (POWER)	£191.99	EXTERNAL 3.5' FLOPPY DRIVE	£54.99
		GOLIATH HIGH OUTPUT POWER SUPPLY	£44.99

siren

No.1 for mail order

SALES HOT-LINE
FREEPHONE
0500 340548
ENQUIRIES: **0161-796 5279**
FAX: **0161-796 3208**

No.1 for Amiga in Manchester

Order **NOW** for immediate despatch.
FREEPHONE
0500 340548
(for credit card sales only)
0161-796 5279 for enquiries
or fax **0161-796 3208**

Open **9am to 6pm Monday** to **Friday. Saturday** mornings **9am to 12pm.**

Access, Visa & Switch accepted.
Send cheques (made payable to Siren Software), Postal Orders or credit card details to :-
Siren Software, 178 Bury New Road, Whitefield, Manchester, M45 6AF England

Personal callers welcome. Please phone first to check availability of any item.

Directions

From M62 junction 17, head towards Bury. We are 50 yards on the right after the third set of traffic lights, opposite 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.

The art of

TVPaint has been part of the power graphics scene since the early days. In that time it's seen a number of revisions which have always brought the cutting edge of painting technology to the Amiga. Not surprisingly, this tradition continues, but on the face value you could be fooled into thinking the update applies more to the price rather than performance. The assorted buttons and icons look worryingly familiar. However, dig a little deeper and the price to performance ratio improves dramatically.

The key to this latest incarnation is the arrival of layers as the pinnacle of the TVPaint environment. In the past TVPaint, like the majority of Amiga packages, used the traditional paging approach – taking the form of a double buffer primary and spare page. However, with the arrival of TVPaint 3.0 the Amiga takes its place in the forefront of painting technology, alongside the latest PhotoShop 3.0 and Quantel's Paintbox.

In simple terms, layers offer the ability to view multiple 24-bit images on the same screen while retaining the ability to edit them independently. In reality, this is achieved by stacking the buffers one behind the other.

SHARING

In TVPaint's case this translates to foreground, middle ground and background layers denoted as buffers A, B and C, with all three sharing a user-definable background colour. In addition, you also retain a spare page for work in progress and the application of specific special effects. This means you can paint on layer A and then switch to layer B. If you then add more paint to this layer it will appear behind anything in the first.

The same applies to layer C, the end result being a 24-bit graphic sandwich with layer B as the filling. And of course, these multi-layer projects can be saved just like a single image, but when reloaded you can disassemble the image, rearrange the layers and edit them with complete freedom.

Not surprisingly, you're free to turn layers off and on as required, swap, merge and rearrange their position in the stack via requesters or hotkeys. Put in such simple terms, it's easy to be unimpressed by the degree of added freedom and flexibility this gives the artist – only when you get some hands-on experience does the true impact really hit home.

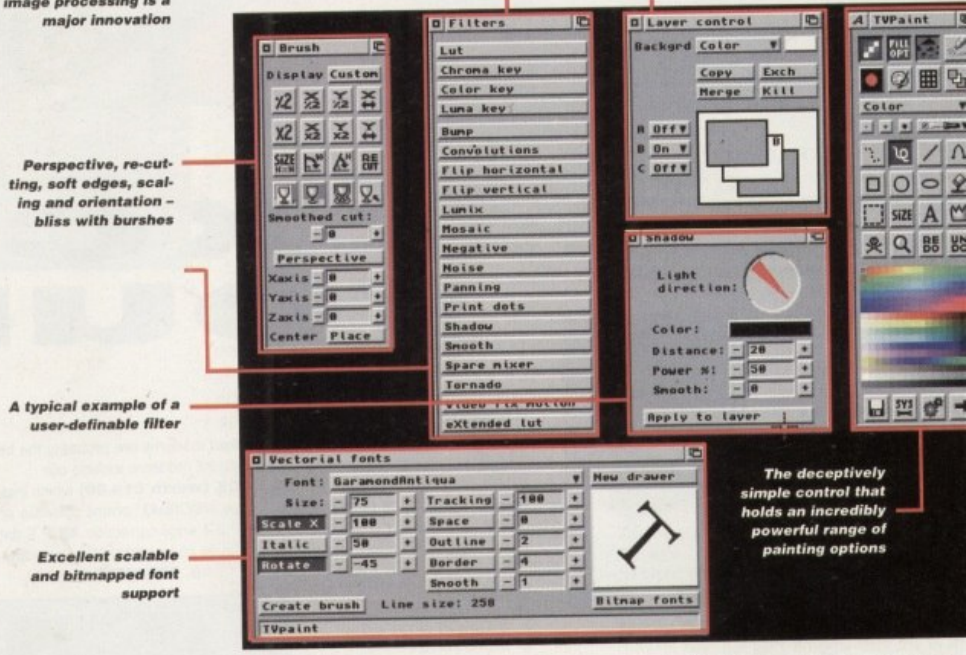
Like its predecessors, the latest release is actually a 32-bit rather than 24-bit environment – with the additional 8-bits providing built-in alpha channelling. In short, built-in alpha channelling allows you to generate a seamless fade from one image or brush to a freely definable level of transparency. In every single pixel has its own alpha or tr parency value which can vary between 0 256.

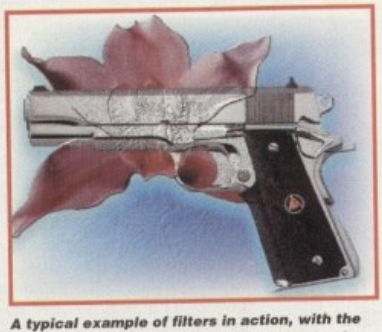
Classic examples of alphas in action Movie trailers and promotional material w invariably feature multiple scenes and cha ter close-ups, all crossfaded and blended a montage – all of which could be capt via TVPaint's direct support for VLab.

APPLICABILITY

This essential commercial skill has alw been a part of the TVPaint repertoire, indeed still is, but it now applies across tiple layers in real time. If you appl alpha channel transparency to an ele in layer A, its affect is carried right thr all the subsequent layers.

Combine alpha effect with density





A typical example of filters in action, with the bump option adding texture to the blue backdrop and embossing the orchid onto the barrel

A touch of class

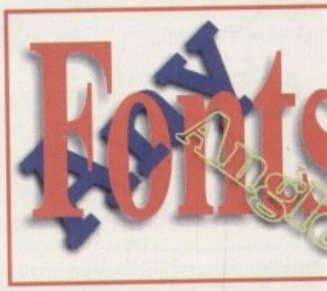
With the availability of such comprehensive alpha support, the actual process of applying paint to paper can be much more subtle than simply clicking on a mouse button. As a result, TVPaint offers extensive support for pressure-sensitive tablets, with Wacom being particularly well supported. Equipped with an appropriate tablet, TVPaint truly ranks among the very best painting environment on any platform.

As you've probably gathered, this is pro product from start to finish, and nowhere is this more apparent than via the program's built-in virtual memory facility.

For commercial artists, resolution is a constant irritation, especially for those working in print resolutions – *Amiga Computing* cover images are never smaller than 1500 x 1000 pixels. Imagine if you were commissioned to produce an image twice or perhaps four times this size. The onboard memory requirement would be massive. Fortunately that isn't a problem thanks to TVPaint's Big Edit option.

It's true that using Big Edit can slow the creative process, but the benefits for any serious commercial artist are immense. In fact, the only limitation is the amount of available hard drive space on the partition you've chosen to contain the Big edit swap file.

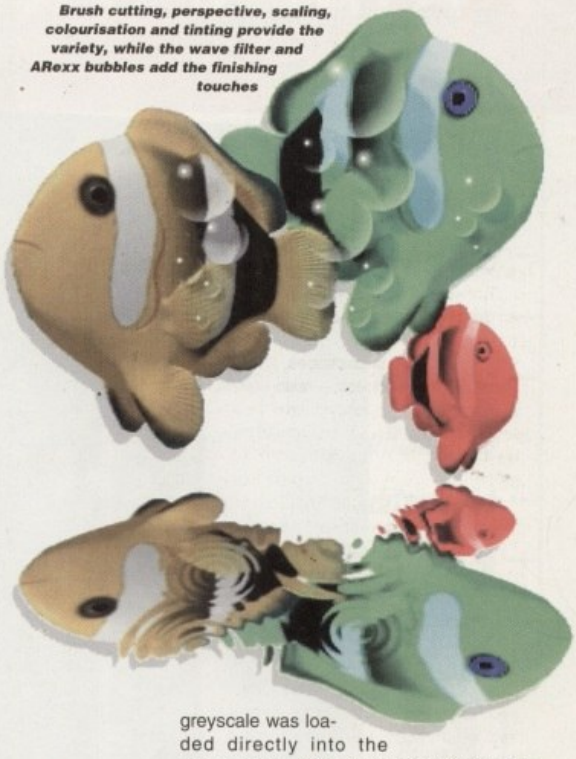
The process works by defining the size of the project and then selecting an area equivalent to your present page size from a scaled representation of the entire project. Once your edits are complete on a particular area, you simply save the changes and reselect another area to work on until your masterpiece is complete. Simple, efficient and often essential.



Although not detailed in the article, you c see TVPaint's new scalable font handling superb in any size, aspect or angle

f the matter

Paul Austin explores the latest update to the Amiga's ultimate painting environment



Brush cutting, perspective, scaling, colourisation and tinting provide the variety, while the wave filter and ARexx bubbles add the finishing touches

Filters for all

As mentioned briefly before, filters – in the style of Kai Power Tools on the Mac – are now a part of the TVPaint environment. At the moment the package ships with 20 assorted filters – with more in the pipeline – which either work directly on the selected layer or operate in concert with an image on the spare page.

Each filter produces its own dedicated requesters for fine-tuning the effect and defining whether it is to be applied to a single layer or over the entire project. Classics include the shadow option, which applies a user-defined shadow to the layer of your choice. Panning is another excellent addition which will pan either individual layers or the entire project in a user-defined direction and amount.

the assorted drawing tools, soft edge brush cutting, and a multitude of image manipulation options and you could have a masterpiece on your hands before you've applied any paint.

The actual application of paint and effects is also beautifully implemented, and now boasts the left mouse button erase feature as pioneered in Photogenics. Unlike Photogenics, though, complete ARexx automation is available across the board for those boring jobs.

In addition to the aforementioned button, you also have full undo and redo options – redo being particularly useful because it allows you to reapply existing strokes with different colours, modes and effects.

Quite literally, everything can be combined; drawing tools such as pens and airbrushes, and drawing functions like straight lines, filled shapes, bezzier curves, bucket fills or freehand can all be used in combination with the drawing modes – colour, merge, erase, pantograph, and so on. By mixing all the possible options, over 2000 combinations are available – all with user-definable parameters.

POWER

A classic example of this is the combined power of a bucket fill in erase mode. If we assume an image has been loaded which contains a specific element amidst a predominantly dark background, a bucket fill in erase mode – given an appropriate fill tolerance – would remove the unwanted areas of the image, revealing any layers beneath.

The element could then be cut out as a brush, scaled, given perspective or image processed, used as a painting tool in the mode of your choice, pasted into another layer or perhaps applied as a soft edged, user-defined density fill for a drawing

An attempt at a jazzy logotype, with gradients, fonts, and real-world images dropped in as density fills. And of course the ubiquitous drop shadow

function. Things get even more funky with the aid of the spare page. Take a quick glance at the gun image and you'll notice the blue density fill in the background has a texture. To achieve the affect a separate greyscale was loaded directly into the spare page. The layer containing the density fill was selected and the bump filter applied, at which point the former smooth blue background regenerated behind the gun and orchid as you see it.

Just as easily, I could have applied the effect to either the orchid or the gun by simply selecting their particular layer – and, of course, you can also apply the effect across the entire project if you wish.

Of course, you're not limited to simply loading images into the spare, as you're free to cut and paste and copy elements or entire layers to the spare. AC

SYSTEM ESSENTIALS

RED = Essential **BLACK** = Recommended

8Mb Ram, 030 with FPU
Graphics card, Picasso II, Retina, Retina Z3 EGS, Rainbow 3 or Spectrum

12 Mb, Graphics tablet

The bottom line

Product: TVPaint 3.0
Supplier:
Phone:
Price:

Ease of use	**10**
Implementation	**10**
Value for money	**7**
Overall	**9**

Verdict

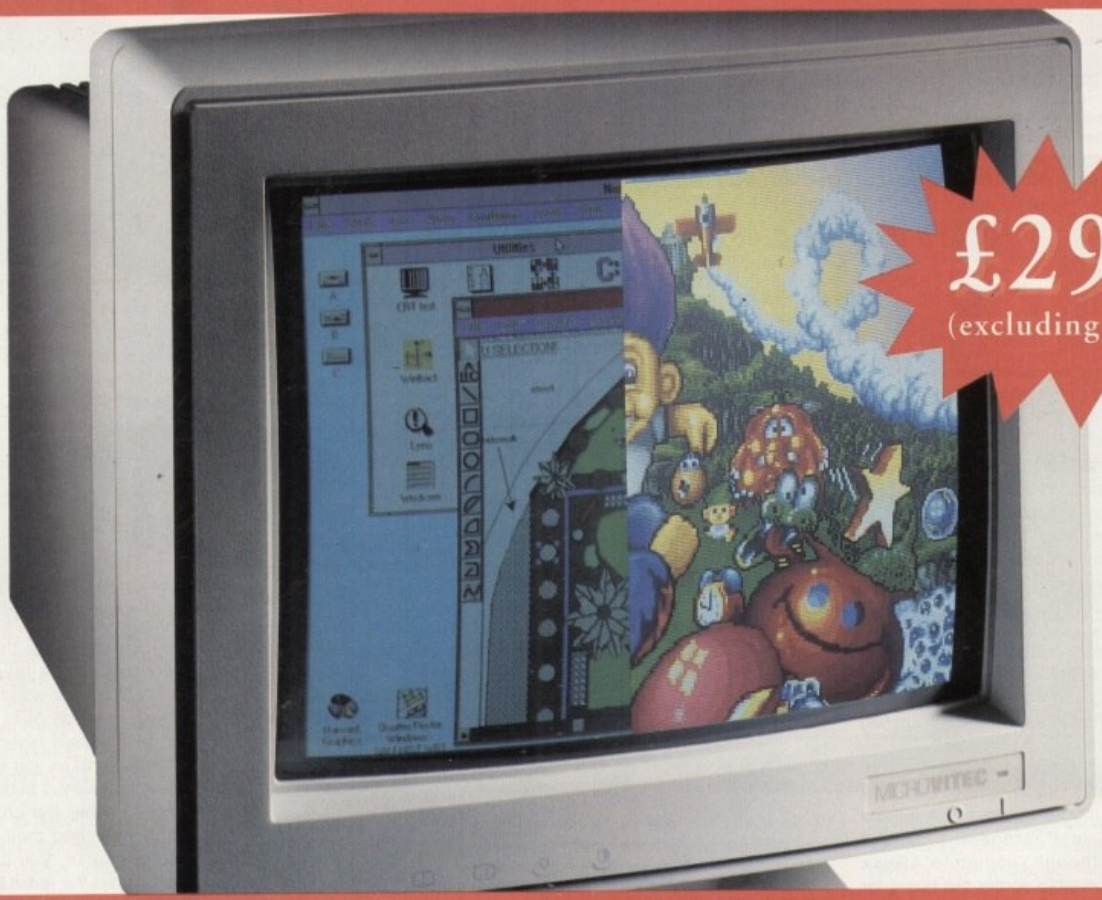
At risk of stating the obvious, the new TVPaint is without doubt the best paint package I've ever had the pleasure to use. In fact pleasure aside, usability and effortless power are the real issues.

You don't have to compromise, you don't need to make masks, stencils or all the other things that make computer-generated art a pain rather than a pleasure, you don't have to save out at every stage in case of accidents, you simply do whatever your imagination can dream up with the minimum of effort. The program has obviously been designed for artists rather than computer users. No matter what springs to mind, actually achieving faultless and accurate results is both quick and simple.

Obviously, with the arrival of Photogenics at a fraction of the price, most users will choke at the prospect of coughing-up this sort of money for a paint package. This is a factor which may be compounded by the arrival of the next Photogenics update, which promises full 24-bit on Picasso II, Retina Z3 and so on.

However, TVPaint isn't designed for most users. For those who require, and can afford, this kind of flexibility and power it's quite simply an essential. In fact, my only real complaint is the 'so you've never used a computer before approach' in the manual, and the almost fourfold increase in the asking price. However, if you can convince yourself there's even a slim chance you'll make good on your investment, I'd sign the cheque without a second thought.

ALL WORK AND ALL PLAY



£299
(excluding VAT)

THE TWO-IN-ONE MONITOR FROM MICROVITEC

There's a new, highly versatile, dual purpose colour monitor that's unbelievable value for both business and games use.

Compatible with all workbench modes, the Auto-Scan 1438 has high performance electronics and an ultra fine tube for sharp, crystal clear images.

Designed and built to exacting standards for assured reliability and quality by Microvitec, the UK's leading monitor manufacturer, features include:

- 14" screen
- 0.28mm dot pitch
- 15-40 kHz
- Fully autoscanning
- MRPII compliant
- Designed and manufactured in the UK

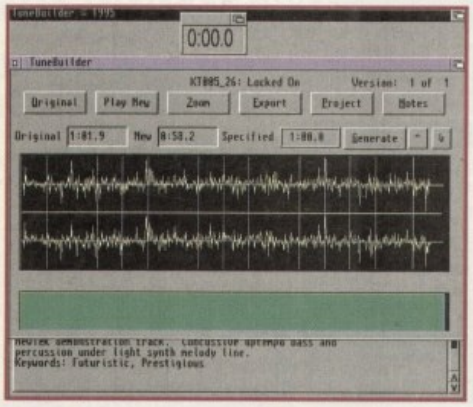
MICROVITEC
WHEN PERFORMANCE MATTERS

Microvitec Plc, The Quadrant,
Chester West, Sealand Road,
Chester CH1 4QR
Tel:01244 377566
Fax: 01244 373401

CALL NOW ON 01244 377566 FOR YOUR NEAREST DEALER

A sound future

Supported by some of the best creative packages available, the Amiga is the first choice computer for video and music professionals. Now Gareth Lofthouse previews TuneBuilder, a music editor that promises to amaze



Music tracks are loaded into the editor where the playing length can be specified or blocks recombined

Spring has brought good news for Amiga musicians, not least with the release of version six of the ever popular Octamed reviewed elsewhere in this issue. The high-end Amiga user, however, is more likely to be tantalized by a surprising new product that has already caused quite a stir in the *Amiga Computing* offices.

Created by Airworks Media, it's claimed TuneBuilder will revolutionise the way music is edited. With video and film makers particularly in mind, the package offers CD backing music which can be timed, cut and rearranged as required using the supplied software.

TuneBuilder is designed for use with CD music libraries specially embedded with edit points that allow each piece to be rearranged, shortened or expanded. Once loaded into the program, the user can specify a required length of playing time to fit almost exactly a sequence of film footage.

The system's benefits don't stop there, however. A musical piece might, for example, have a percussive effect that would suit a particular moment of action in a video. Using the editor, Amiga owners will be able to rearrange the tune so that the required sound effect comes earlier or later in the piece to fit in with the film – a feature that should prove to be an amazing time and cost saver.

SIMPLICITY

Though this is a package worthy of professional use, the interface lends the process childlike simplicity. Music appears in the editor broken down into a series of blocks, and rearranging it is simply a matter of dragging the blocks into the desired position using the mouse.

The ingenuity of the system lies in the fact it can play new versions of recombined music segments instantly, without any hint of a pause or a clash between sound blocks.

This is largely down to Airwork's use of professional musicians for the task of selecting the edit points on the CD – apparently every minute of music has taken two to three hours of work to accomplish successfully. Setting the length of the piece is even simpler than rearranging it. In the preview version, creating a new tune accurate in duration to a specific frame was not possible, but TuneBuilder will automatically generate a sequence that comes within tenths of a second of your specified time.

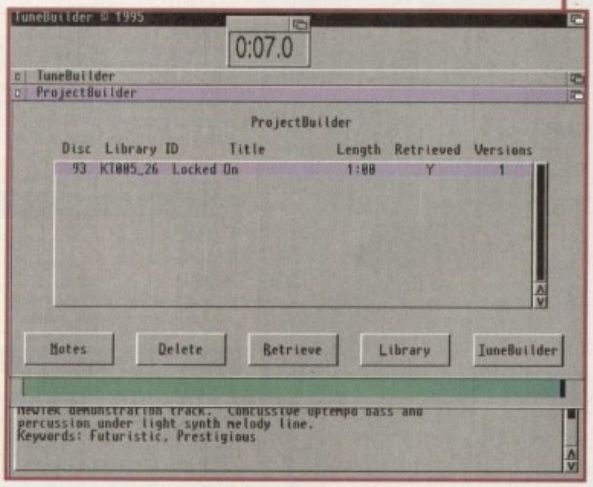
Music is retrieved from the CDs and manipulated in the editor as 8-bit sound. However, once satisfied with your new version it can be exported for video applications as 16-bit stereo if required. What's more, the software supports an impressive range of audio file formats.

For example, Sunrize, Sun audio, WAV and Toccata formats are all available. The latter should prove a boon to VLAB Motion owners who will be able to load edited pieces directly for use with the Toccata board.

TuneBuilder will be packaged with the Arpeggio music library, AirWorks' collection of 345 music cuts covering 12 CDs, with a variety of themes for all sorts of purposes. The asking price of $950 for non-broadcast material or $1800 for material to be broadcast may make some readers quail, but it represents real value for money in comparison to alternative methods.

Other companies are creating large libraries for use with TuneBuilder. A Killer Tracks demo CD was supplied to us with the required edit points, and if the pieces are typical of the standard we can expect, then the professional is in for a treat.

AC



The export requester, and TuneBuilder boast about all the options you could ask for

Breakthrough

A certain amount of product hype from the developers is to be expected, but for once the implications of this new technology could be as dramatic as the owner's hope if it's marketed correctly. Previously, the only way to match music to video effectively has been either to hire sessions musicians or to create your own tunes by investing in midi equipment, and either of these options can cost the videographer an arm and a leg.

By contrast, TuneBuilder puts control over music into the hands of Amiga users in a way that's not been possible before. Thanks to the efforts of Airwork's professional editors, even the tone deaf will be able to produce a background soundtrack to very high standards.

Ever keen to keep our readers abreast of the latest and most prestigious software available, *Amiga Computing* will be giving TuneBuilder a full review as soon as it's finished. Looking ahead, however, Airworks envisage a time when the likes of the latest Madonna CD will be released on CD-ROM with pre-embedded editing points for arrangement with this system. Perhaps now you're getting an idea of just how important TuneBuilder could be.

Visage Computers

(Dept AC)
27 Watnall Road
Hucknall
Nottingham
NG15 7LD

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

To Order Telephone:
(0115) 964 2828
Tel/Fax:
(0115) 964 2898

AMIGA PD

PARTY '94 DEMOS

1 Andromeda - Nexus7 AGA
2 Bomb - Motion Origin2 AGA (2)
3 Sanity - Roots AGA
4 Polka Bros - Twisted AGA 4mb (4)
5 Silents - Soul Kitchen AGA (2)
6 Rebels-Whammer Slammer AGA(3)
7 Melon - Ninja AGA
8 Oxyron - Killing Time AGA (4)
9 Dig Dreams-Eternal MadnessAGA(2)
10 40k Intros

We also stock:- Utilities, Fish 1-1000, Assassins 1-220, F1 Licenseware 1-44, and are now the sole distributor for LSD Legal Tools from #152 onwards. The LSD Legal Tools cost £1.25 per disk.

DISK PRICES & POSTAL RATES

DISKS	PRICE PER DISK	P&P
1-10	£1.00	£1.00
11-25	£0.95	£1.25
26+	£0.90	£1.50

AMIGA HARDWARE

HARD DRIVES

WESTERN DIGITAL

3.5" IDE

210MB	12ms	£159.99
340MB	12ms	£169.99
420MB	12ms	£179.99
540MB	12ms	£189.99
850MB	10ms NEW! LOW PRICE	£259.99
1.2 GIG	10ms PRICE CRASH!!!	£344.99

QUANTUM

3.5" IDE

270MB	12ms	£139.99
420MB	12ms	£159.99
540MB	12ms	£189.99
730MB	10ms	£209.99
1-GIG	10ms	£499.99

3.5" SCSI 2

270MB	12ms	£199.99
540MB	12ms	£239.99
1-GIG	10ms	£549.99
2.1-GIG	10ms	£999.99

IBM

2.5" IDE

80MB	16ms	£109.99
130MB	16ms	£129.99
170MB	16ms	£159.99
340MB	12ms	£209.99
520MB	12ms	£429.99

All 2.5" Drives include IDE cable

3.5" IDE

365MB	12ms	£149.99
548MB	12ms	£179.99

3.5" Hard Drives will fit into the A1200/4000 (cable required for A1200 £19.99 - SEE ACCESSORIES). When you purchase your drive from us we can fit it for a charge of £19.99 (including collection & delivery). Please confirm current prices & availability before ordering.

EXTERNALLY CASED DRIVES

1200 OVERDRIVES

270MB	£219.99
420MB	£229.99
540MB	£259.99
730MB	£349.99
1-GIG	£419.99

A500 ALFA POWER EXTERNAL

270MB	£234.99
420MB	£259.99
540MB	£289.99
730MB	£349.99
1-GIG	£489.99

Alfa Power HDs plug into the DMA port of the A500. Can be populated with up to 8MB of fast ram. Requires KickStart V2+.

SX1 - CD32 EXPANSION MODULE

Turns your CD32 games console into a full Amiga computer.
With FREE GoldFish CD **£194.99**
Keyboard for SX1 ..... **£37.99**

GOLIATH 200W POWER SUPPLY

High powered PSU for the Amiga. Ideal replacement. Only **£44.95**

LOOK AT WHAT YOU GET FROM OUR HDs

Drives come ready to run prepped and formatted with WB ☑

Installed with 100MB of FREE top quality Public Domain Software. ☑

Only quality drives used, with at least 1 year warranty (Most 2 to 5 year). ☑

PRINTERS

EPSON

Stylus Colour Inkjet Printer Photographic quality output when used with optional 720DPI printer driver (coated paper required). Built in auto-sheetfeeder.
Only **£429.99**

STUDIO 2 - PRINTER STUDIO

Professional print studio for the Amiga. Enhance the output of your printer Inc 720 DPI on EPSON STYLUS Colour.
Only **£49.95**

Canon

BJ10sx Low Cost A4 BubbleJet 360 DPI **£179.99**
BJ200 Mono BubbleJet Printer 80 Page Auto Sheetfeeder.
360 DPI **£239.99**
NEW...**BJC4000** Colour BubbleJet Colour 360DPI – Mono 720 x 360 DPI.
An Amazingly Low **£399.99**

CDROM DRIVES

MITSUMI QUAD SPEED

Internal 600KB Per SecondTransfer Rate including Tandem CDROM Controller **£209.99**

CD32 CRITICAL ZONE PACK

32 Bit CD Console. With 7 games Inc Cannon Fodder, Ultimate Body Blows & Liberation. ..... **Only £195.00**

Now available Apollo accelerator cards – call for prices

MODEMS

ALTO 14,400 External fax modem. **£139.99**
ALTO 28,800 External fax modem. Fax class 3, V34 ..... **£229.99**
Modems come supplied with Cables, manuals and Comms software.

MEMORY SIMMS

4MB 72 Pin 70ns	£139.99
8MB 72 Pin 70ns	£279.99
16MB 72 Pin 70ns	£449.99

DISK DRIVES

- Amitek Amiga External £59.00
- A500 Internal £44.00
- A600/A1200 Internal £49.00

FUSION GENLOCK

Mixes video & computer graphics with ease. Inc. free Scala HT100 ..... **£99.99**

RAM BOARDS

Machine	Memory	Clock	Price
A500	0.5MB	No	£20.99
A500	0.5MB	Yes	£25.99
A500+	1MB	No	£30.99
A600	1MB	No	£30.99
A600	1MB	Yes	£40.99
A1200	2MB	Yes	£134.99
A1200	4MB	Yes	£189.99

PRO-GRAB 24RT

PARALLEL PORT VERSION

24BIT Real-Time Colour Digitizer. A1200/4000 Recommended. 2.04 & 1.5 MEG Required. ..... **Only £129.99**

PCMCIA VERSION

Same Specification as above. Increased speed. ..... **Only £159.99**

ACCESSORIES

3.5" – 2.5" HD Lead	£19.99
Canon BJ-10 Refills	£12.99
Midi interface	£19.99
MegaMouse 400DPI	£14.99
Parnet Lead Inc Software	£10.99
Mouse Mats	£1.99
Amiga Dustcovers	£4.99
Parallel Printer Cable	£7.99
50 Capacity Disk Box	£3.50
100 Capacity Disk Box	£5.99

TDK FLOPPY DISKS

Call for best prices on TDK DS/DD. From. ..... **30p each**

SQUIRREL SCSI2 INTERFACE

Fits into the PCMCIA interface of your A1200. Fast SCSI2 interface to connect CD Drives, Hard Drives, Etc.
With Software ..... **Just £69.99**

DELIVERY CHARGES

STANDARD (3-4 DAYS)	£3.95
NEXT DAY COURIER	£5.95
SMALL ITEMS	£1.95

All prices include VAT

Prices are correct at time of going to press

HOW TO ORDER

BY POST - Please make cheques & postal orders payable to ***"VISAGE COMPUTERS"***. Please allow 5 working days for cheques to clear.

BY PHONE - Orders taken from 9.30am to 5.30pm.

Access VISA MasterCard

CALL (0115) 964 2828 TO PLACE YOUR ORDER

Paul Overaa shows you an easy way to add Midi song playing capabilities to your Basic and C programs

Music for the masses

There are plenty of real good Midi files around these days and whether you like the classics, country, pop and rock, or more obscure stuff, the chances are that someone, somewhere will have produced Midi file arrangements to suit your tastes. In short you just buy the files, load them into a sequencer, and play them.

Incidentally, some commercial libraries can provide their material on Amiga format disks, although most offer only MSDOS format. Needless to say, this is no great problem nowadays because these disks can be read via CrossDOS without any trouble at all.

Library files are usually configured for General Midi type equipment, so most people usually need to do a little channel and patch editing to get the arrangements sounding right on their particular Midi equipment. Once you've saved a version that is suitable for your system, however, you'll be in a position to 'load and play' these arrangements just as easily as you might play a record or CD.

The question we might now ask is whether or not it is possible to add these types of file-playing facilities to our own programs. Midi file playing, as many of you will know, is quite complex, but by converting a Midi file into a format known as MPX2 it is possible to simplify beyond belief the code needed to regenerate the stored Midi data.

What I'm going to do in this tutorial is show you exactly how MPX2 file loading and playing facilities can be added to your own programs. The result is that with relatively little additional code it becomes possible to write programs that can play pre-arranged Midi file song material in essentially the same way your sequencer can.

FILE STRUCTURE

It should be pretty obvious that the key to writing any file processing utility is to understand, in detail, the relevant file format. Before I look at the MPX2 format, however, I ought to recap briefly on the structure of conventional Midi files so that you can appreciate the benefits that MPX2 files provide.

At the highest level, these files consist of blocks of data called chunks that consist of a 4 byte identifier field followed by a 4 byte number that tells you how much data is in the chunk. Two types of chunks are currently defined: Header chunks, which have a 'MThd' identifier, and track chunks, which have a 'MTrk' identifier.

Midi file chunks can be arranged internally in three ways and this leads to three types of files: The type 0 format files contain a header chunk followed by a single track chunk used for storing a sequence or song as a single stream of events. Type 1 files allow multiple track sequences to be stored, and these contain a header chunk followed by separate track chunks which represent tracks to be played simultaneously.

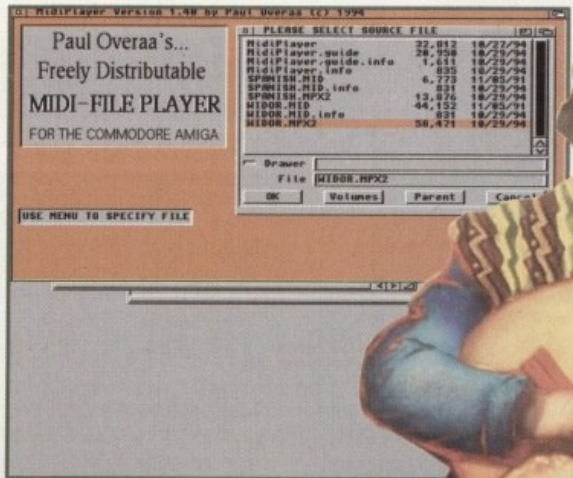
One last type of file was developed to allow sets of independent sequences to be stored, but these so-called type 2 files do not seem to be used to any great extent.

As far as chunk arrangements go, the 'MThd' header chunk is always the first one in the file and it currently has three words of data – the first identifies the file format (0, 1, or 2), the second tells you how many track chunks are present in the file, and the last contains timing interpretation details.

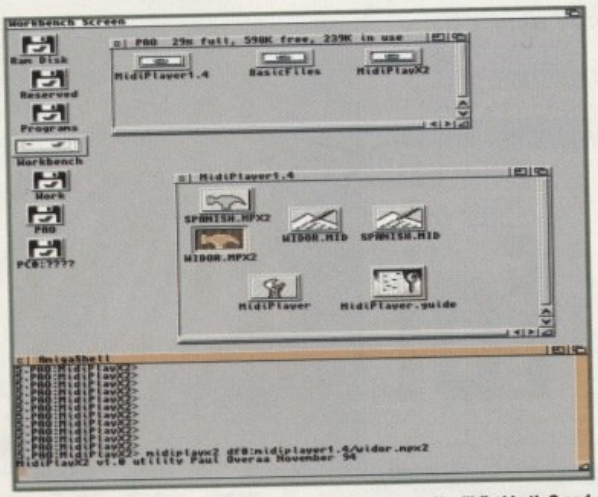
The data events stored in a Midi file all start with a time delay field, a so called Delta time, that specifies the amount of time which should pass before the specified event should be played.

It's worth mentioning that Delta times, and a few other Midi file items, are stored in a byte-efficient variable length format that has to be unpacked before it can be turned into a sensible numerical value. MPX2 format files, incidentally, do not use compacted time values, which is one of the things that makes them easier to read.

Midi file events can be one of three types: Midi events (channel messages), Sysex events, and a collection of non-Midi items known as Meta events. I'm not going to go into detail about each and every event structure because the MPX2 arrangements make it unnecessary for you to know what type of data is in the original Midi file. As an illustration, however, here are some details of the ➤



Paul Overaa's Midi file player has now been especially modified to convert Midi files to MPX2 format



You'll find both C and Basic MPX2 file playing example programs on the CoverDisk

layout used for Midi file Meta events: They start with an FF hex Meta event identifier, followed by a 'type' field, a byte count, and the data itself. The type field is a 1 byte value between 0 and 127 and the count field is stored in the same variable length format as is used for delta-time values.

Two Meta events of particular interest by the way, are those that allow the end of a track, or a change in tempo, to be recognised, although a great many other events have been defined for embedding track names, lyrics, copyright notices and so on.

HARD WORK

Midi file reading, as I've already mentioned, is not particularly easy. Chunks have to be identified, their contents extracted and unpacked, and Midi events have to be separated from Meta events. With type 0 files these events will be time ordered by virtue of their positions in the file and their delta times.

With type 1 files the situation is more complex, and in order to produce a stream of Midi data it is necessary to merge in time order all the events from all of the track chunks. When you realise that running status (i.e. the use of implied status bytes) is also allowed within streams of stored Midi events, it's not hard to see that writing Midi file unpacking code is no small feat.

At the playing end of the 'Midi file to Music' conversion scenario the task is simple enough to explain. The time ordered blocks of Midi messages generated as a Midi file were examined and have to be sent down the serial line at the appropriate times.

> With relatively little additional code it becomes possible to write programs that can play pre-arranged Midi file song material in essentially the same way your sequencer can

If you think about this end of the problem you'll realise that what we really need for playback simplicity is a file structure that allows blocks of Midi message data to be stored exactly as they should be transmitted.

One easy way to achieve this would be to opt for a file format that uses blocks consisting of a fixed length time value, followed by the Midi data in the exact form needed for transmission. The snag here is that in order to transmit a block of serial Midi data you need to know the size of the block. In other words, a block size field needs to be included with each event, and with the MPX2 format the event arrangement adopted is this:

```
<>4 byte microseconds delay>
        <>2 byte block size (S)>
                <>S bytes of Midi data>
```

The good news now is that the MPX2 file structure is based on exactly these types of event blocks, tagged onto an 8 byte header like this:

```
4 byte MPX2 file identifier ("MPX2")
4 byte event count    N
N events
        {
        <>4 byte microseconds delay>
                <>2 byte block size (S)>
                        <>S bytes of Midi
data>
        }
```

The first MPX2 header field lets you check that a file actually is a real MPX2 file before you process it. The second, the event count, indicates how many events are in the file. A file reader simply has to read the identification and count values and then output the required number of events down the serial line.

Handling an MPX2 event is both easy and efficient. Firstly, you read the time delay field and execute an appropriate timed device delay, next read the block size to see how much data you should transmit and finally, perform a single Exec DoIO() call to transmit the complete associated block of event data to your Midi equipment!

The key advantage of this file format there is playback simplicity. Because MPX2 data blocks contain only pure Midi message information programs do not need to do any complicated event unpacking or interpretation – they can just read blocks of Midi data and transmit them without caring about the contents.

There are a variety of ways in which MPX2 data files can be used, but the simplest approach is to open the file as an ordinary sequential input file and read the event data using the in-built Basic file handling facilities. To illustrate this approach, and to bang up-to-date, I've opted for an example based on HiSoft's new Basic 2 package.

To produce runable code I did, of course need access to the Amiga's serial port. Serial device handling is no problem because HiSoft Basic 2, like most Basic

MPX2 file reading using C

One of the problems with using high-level language file reading is that it is inherently slow and this can affect MPX2 file playback timing. While, therefore, MPX2 reader code can certainly be written using C's high-level file handling functions just as easily as in Basic, I prefer a different approach. I load the complete file into a buffer and then access the events directly via a pointer. As each event is read the pointer is incremented so that it then points to the next item to be processed. Here's a typical example that reads the four byte event count and then increases the pointer by 4:

```
event_count=*(ULONG *)data_p; data_p+=4;
```

In order to avoid continually writing buffer handling routines, I use a buffer ADT (abstract data type) module that allows me to load a named file, ask for the start of the file data, kill (i.e. remove) the buffer, and so on. Listing 2 shows the header defining the functions this module provides, and all I have to do is include this header file in my source and then link my compiled code with the associated buffer module. Listing 3 shows these routines being used to load an MPX2 file and you'll notice that, having checked the file identity, I kill the buffer if the file is not a valid MPX2 type.

Listing 4 is the MXP2 play routine itself. It does the same job as the Basic routine discussed earlier, and the only difference is that I am using an incrementing pointer to move through the MPX2 file rather than reading items through high-level file functions.

CoverDisk Files

To start with you'll find the HiSoft Basic 2 example program on the disk. Although this is an unoptimised 'bare bones' example, it is certainly sufficient to get you up and running, and in particular should convince you that Basic really can cope with these sort of song file applications. You'll also find all the C source and header files for a Shell MPX2 file player (written and compiled using SAS C) along with a runable version of the program.

So you've got player routines to examine in both Basic and C on the disk, but these would be of little use unless you were able to convert your Midi files into MPX2 format. At this point there's good news because during the last few weeks while I was preparing this tutorial, I've actually added Midi File to MPX2 file conversion facilities to my Workbench 2+ MidiPlayer program.

It can now not only load and play type 0 and type 1 Midi files but can play MPX2 files and, more importantly, convert any loaded Midi file into its equivalent MPX2 form. You'll find this utility, with documentation, and various example files on the CoverDisk. All that remains now is for you to set up your Midi equipment, dig out your favourite Midi files, and start giving your neighbours a mega-decibel treat!

Jargon help

RKM: Amiga ROM Kernel Manuals – the official Amiga system programming books

pointer – a variable used to store a memory location address. C programmers often tag a '_p' extension onto the names of pointer variables to remind themselves of this fact.

structure offset – a number (or an equivalent name) that specifies the position of a particular field in a block of memory relative to the base address of that block.

allows this to be opened and used in much the same way as an ordinary file.

I also needed time delay facilities, but this presented more of a problem – neither HiSoft Basic, nor any other Basic come to that, provides timer functions that are capable of providing delays of sufficient accuracy. Because of this it is essential to use the Amiga's timer device and this means we need to set up a reply port and an I/O request block for communicating with the timer device (as well as opening the device itself). Before I tackle this side of the problem though, let's examine the MPX2 file playing loop.

Listing 1 shows a program that asks for the name of an MPX2 file and then plays it. Don't worry about the initial code – look at the loop in the middle. What may well surprise you is that once the various setting up and file opening code has been performed, it takes just one loop containing these seven lines of Basic to read and play any sort of MPX2 file:

```
FOR i&=1 TO event_count&
        event_time&=CVL(INPUT$(4,#1))
        POKEL
timerIO&+tr_time+tv_micro,event_time&
        f&=DoIO&(timerIO&)
        event_count&=CVI(INPUT$(2,#1))
        event$=INPUT$(event_count&,#1) : PRINT
#2,event$;
NEXT i&
```

We read the four byte time value from the file [notice the use of CVL() to convert the INPUT$() string into a number], poke that value into the timer I/O request, and perform an Exec DoIO() call to the timer in order to produce the required delay. Having done that, we then use INPUT$() again to read the event size field and once more to read the Midi data block into an event$ string. A PRINT statement is then all that's needed to transmit that block down the serial lines and into your Midi gear. Not bad eh, for seven lines of code!

Because the play loop depends on being able to generate accurate time delays, this brings us to a stickling point as far as Basic is concerned – each version of the language has its own ways of allowing experienced coders to access the underlying Amiga system library routines and devices.

The latest version of HiSoft Basic does, in fact, include a new scheme for doing this and, since you are unlikely to have seen any code of this nature before, I'll explain briefly how it works.

HiSoft have created a set of header files that mimic the system headers used by Amiga C and assembler coders. As well as library function details, these headers also provide 'pseudo constant' definitions of all the important structure offsets. If you look at listing 1 again you'll see near the start of the code that I perform a CreatePort() Exec library function call and then create an extended I/O request block using this function:

```
timerIO&=CreateExtIO&(timerport&,timerequest_sizeof)
```

The returned value, timerIO&, is actually the base of the allocated timer I/O request structure but before it can be used with a DoIO() call various fields need to be set up. Timer I/O requests have to be set up with both a time delay value and a number which represents the command the device should carry out. The command field can be referenced by adding an offset value, defined as IOStdReqio_Command in the HiSoft headers, onto the base address of the I/O request structure.

Another constant defined in the headers is called TR_ADDREQUEST& and this is used to tell the timer device to perform a time delay. With HiSoft Basic 2 we poke a TR_ADDREQUEST command into the I/O request block like this:

```
POKEW timerIO&+IOStdReqio_Command,TR_ADDREQUEST&
```

The final location being poked is therefore the sum of the timer I/O request base address and the command field offset.

In a similar fashion, the four byte event time of an MPX2 event can be poked into the request block using predefined tr_time and tv_micro structure offset values:

```
POKEL timerIO&+tr_time+tv_micro,event_time&
```

Hard going? Well, there is nothing inherently difficult going on here – I'm just poking suitable numbers into particular positions of a block of memory. I will admit, though, that the purpose of this sort of 'jiggery-pokery' can only make sense if you understand the layouts and purposes of the appropriate Amiga system structures, and the same is true of Amiga library function use.

Experience with C or assembler and the RKM manuals undoubtedly comes in handy, but if you are new to Basic then all I can suggest is that you just take the timer code at face value and use it, being particularly careful *not* to inadvertently alter any offset names or variable types!

I have, incidentally, kept the example code as small and as straightforward as possible. In particular, I've not performed the customary checks on things like device opening and I/O request memory allocation functions because these would have made the underlying framework of the code much more difficult to examine. Be warned, however, that in general, the return values of library functions which can fail ought to be checked, and appropriate error closedown paths coded. AC

```
REM $include exec.bh
REM $include timer.bh
REM $include blib/execsupport.bas

DEFINT a-z : BUMPED_PRIORITY=50
LIBRARY OPEN "exec.library"
timerport&=CreatePort&(0&,0)
timerIO&=CreateExtIO&(timerport&,timerequest_sizeof)
POKEL timerIO&+tr_time+tv_secs,0
e&=OpenDevice&(SADD("timer.device"+CHR$(0)),UNIT_MICROHZ,timerIO&,0)
POKEW timerIO&+IOStdReqio_Command,TR_ADDREQUEST&
INPUT "Name of MPX2 file to play? ",name$
OPEN name$ FOR INPUT AS #1 LEN=5000
OPEN "COM1:31250,N,8,1" AS #2
header$=INPUT$(4,#1) : event_count&=CVL(INPUT$(4,#1))
task&=FindTask&(NULL&)
old_priority&=SetTaskPri&(task&,BUMPED_PRIORITY)
FOR i&=1 TO event_count&
        event_time&=CVL(INPUT$(4,#1))
        POKEL timerIO&+tr_time+tv_micro,event_time&
        f&=DoIO&(timerIO&)
        event_count&=CVI(INPUT$(2,#1))
        event$=INPUT$(event_count&,#1) : PRINT #2,event$;
NEXT i&
e&=SetTaskPri&(task&,old_priority)
CLOSE #2,#1
CloseDevice timerIO& : DeleteExtIO timerIO& : DeletePort timerport&
LIBRARY CLOSE
END
```

Listing 1: Playing MPX2 files via HiSoft's Basic 2

```
typedef void BUFFER;
BUFFER      *CreateBuffer(TEXT *filename); /* returns NULL if request fails */
void        KillBuffer(BUFFER *buffer_p);
ULONG       AskBufferSize (BUFFER *buffer_p); /* returns size of buffer */
UBYTE       *AskBufferStart(BUFFER *buffer_p); /* returns start of buffer */
UBYTE       SaveBuffer(BUFFER *buffer_p, TEXT *filename);
```

Listing 2: The buffer ADT routine definitions used for buffer handling

```
UBYTE LoadMPX2(TEXT *source_p)
{
UBYTE  *data_p, error_number=NO_ERROR;
if (!(g_mpx_buffer_p=CreateBuffer(source_p))) error_number=NO_SOURCE;
else {
            data_p=AskBufferStart(g_mpx_buffer_p);
            if(*(ULONG *)data_p!=ID_MPX2
                {
                KillBuffer(g_mpx_buffer_p);
                g_mpx_buffer_p=NULL;
                error_number=BAD_FILE;
                }
            }
return(error_number);
}
```

Listing 3: The routine for loading an MPX2 file into a buffer

```
UBYTE PlayMPX2()
{
UBYTE *data_p, error_number=NO_ERROR;
UWORD code, event_size;
ULONG delay, i, event_count, task_priority;
if (!g_mpx_buffer_p) error_number=NO_SOURCE;
else {
            task_priority=SetTaskPri(FindTask(0),BUMPED_PRIORITY);
            data_p=AskBufferStart(g_mpx_buffer_p); data_p+=4;
            event_count=*(ULONG *)data_p; data_p+=4;
             g_timer_request_p->tr_time.tv_secs=0;
            for (i=0;i<>event_count;i++)
                        {
                        delay=*(ULONG *)data_p; data_p+=4;
                        g_timer_request_p->tr_time.tv_micro=delay;
                        DoIO((struct IORequest *)g_timer_request_p);
                        event_size=*(UWORD *)data_p; data_p+=2;
                        g_serial_request_p->IOSer.io_Length=event_size;
                        g_serial_request_p->IOSer.io_Data=(APTR)data_p;
                        DoIO((struct IORequest *)g_serial_request_p);
                        data_p+=event_size;
                                    }
                        }
            SetTaskPri(FindTask(0),task_priority);
                    }
return(error_number);


}
```

Listing 4: A typical C code routine for playing MPX2 files

Plug into the Amiga

star letter

Here's an idea. I use Macs and PCs fairly regularly and am extremely impressed by the idea of plug-ins. For those who don't know, plug-ins are pieces of software, like datatypes for the Amiga, which can be added to any program that supports them.

For instance, Kai's Power Tools on the Mac is a plug-in for extra image processing effects. It not only works with Photoshop, but also with Quark XPress, the foremost DTP program in the world. This means that you get Kai's Power Tools effect within XPress, without having to take your images into Photoshop first.

Wouldn't it be great if ADPro worked the same way? Then we could use its loaders and operators inside packages like Wordworth and PageStream. I think that if Commodore ever gets resurrected, one of the first things it should do is try to get some sort of standard set up.

William Russell, Colchester

Plug-ins are indeed a superb idea. However, it seems that none of the Amiga software companies are too willing to talk to one another when it comes down to it, so, as you say, a standard will probably need to be set by whatever entity Commodore becomes.

That being said, I think the 'new Commodore' will have other things on its collective mind than plug-ins. Like getting machines into shops for instance. But perhaps LightWave will lead the way as the new version supports plug-ins, but unfortunately not the standard ones used by 3D Studio, Photoshop, et al.

Faulty FastRAM

While reading your April letters page, I found a striking similarity between the situation experienced by Mr. Colin Smith and myself.

I ordered a 4Mb RAM board from Siren Software back in December. Upon receiving it I found it to be faulty and sent it back, demanding a refund. I expected to receive one soon – if the goods are faulty the company must cough up. It was several months and phone calls later before I was offered any sort of refund, and they suggested a credit note to the value of the board. After such a long wait I was in no mood to try my luck again. After all, who's to say the second wouldn't be faulty too?

I took a trip down to my local trading standards office for a chat. They said that if the company maintained that the goods were not faulty, they (Trading Standards) could do no more for me. It came as no great surprise when they later informed me that they had received a letter from Siren Software saying I had returned goods which worked perfectly.

In the end I got my money back. It was a long complicated process which I don't want to bore you with now. Suffice to say, I won't be dealing with Siren Software again.

Please print this, as I see no reason why anybody else should go through the same struggle. Expanding your machine should be fun, not a constant worry about your legal standing.

Kenneth Lyon,
klyon@touchdwn.demon.co.uk

I appreciate the difficulties you have had with Siren, but would just like to ask why you felt it necessary to 'demand' a refund. We don't live in a perfect world and it wasn't necessarily Siren's fault that the RAM didn't work in your machine. What was the matter with them simply sending you a replacement SIMM? That having been said, you do seem to have had an awful lot of trouble actually receiving a refund, which is not good in anybody's book.

Compact congratulations!

Congratulations on the first CD for the Amiga that is really worth mentioning. Any qualms of yet another software let-down were swiftly dispelled when I switched on my A1200 with the CD Toolbox in situ.

Terrific! More of the same please, even if you do have to up the cost of the mag in consequence – it would be worth it, at least in my opinion.

Just to reiterate, well done AC!

Frank Doswell, Crawley

Blush! Gosh, thanks. We do try our best. As to raising the cover price of the magazine, I'm sure the majority of our readers would have to disagree with you there

Booklet blunder

Please can you help me? I have just purchased an Amiga 1200 and a friend has lent me some booklets which I would love to be able to purchase: Amiga Answers, Mastering the Amiga, Amiga Format

If you could let me know the cost I will send a cheque by return.

Deryck Marston, Leicester

Well, Deryck, if I remember rightly, the first and last booklets you mention were published by our Bath-based competitor, Future Publishing, while the second one was published by Bruce Smith Books who can be reached on 01932 894355. Good luck with your new machine.

I just can't get enough

I'd like to disagree with Mr. Hawkins' views in March's issue of *Amiga Computing*. I use LightWave every day and find that only *AC*'s coverage of the various add-ons for it are in-depth enough for my liking. I say more LightWave!

I would also be extremely keen on a tutorial series like your Publishing column, not just the more general 3D page, but something to get your teeth into. My only other problem is getting hold of the items you review. It seems that the only UK supplier is Premier Vision and they charge too much and don't carry enough stock. Perhaps you can suggest some other dealer?

Mike Perrie, Sunderland

The lack of UK availability of some of the LightWave-related products we review can be a problem, especially for readers without a credit card, but we can only hope that as LightWave gains further ground in this country, their will be dealers springing up to offer UK users the software they want.

As to the likelihood of a continuing tutorial for LightWave users, I think it is unlikely at the moment, unless, as per Mr. Hawkins suggestion, we do change our name to LightWave Computing!

A clean bill of health

I would just like to say thanks to Frank Nord for his Amiga Medical articles. They have helped me no end with configuring my system, which consists of an Amiga 1200 with 65Mb hard disk. As I run lots of programs that have an ARexx interface, his advice on moving the REXX: directory has proved invaluable.

Bill Reason, Northwich

Frank says: I'm glad my hints have proved useful to you. They were culled over a great many years of messing around with not only my own Amiga, but other people's, to make things run a lot smoother, especially for people without a technical bent.

Net worth

Thanks very much for the Demon Internet CoverDisk – it was superb. I had been contemplating having a go on the Internet and this was just what I needed to push me into it. AmigaNOS is somewhat complicated in use, but I've found that as long as you leave it pretty much alone, although you might not get the best performance from it, at least it actually works.

It does seem a little strange that you have to edit three files to change the newsgroups you subscribe to, but ours is not to reason why. My next step is to jump to AmiTCP thanks to the hefty article you published last month. I just hope I find it easier than AmigaNOS, (I can't wait to use Mosaic though). Finally, keep up the good work. *Amiga Computing* is by far the best of the Amiga mags; all the others either aim too high, or too low. Yours has just the right balance between the two.

Kevin Bryant, Southall

The response to the Demon freebie has been phenomenal. We have been inundated with e-mail and snailmail to the effect that it has been the best giveaway any magazine has ever put on the cover – ever. We assume from this that you lot actually quite liked it.

040/1200?

I have an Amiga 1200 and I have been saving up for ages to buy an accelerator card for it. But now I am worried that a 68040 accelerator will become available and I will have bought the 68030 one. Can you advise me on what to do?

Mr B Caldwyn, Falmouth

Rest easy Mr Caldwyn, there won't ever be a 68040-based accelerator for the A1200 unless someone can do something about the size of the 68040 chip and the amount of heat it generates. Get your 68030 board by all means and try to get one that offers two SIMM slots, if possible, as they offer more flexibility when it comes to upgrading your RAM.

AGA flicker

After having 'upgraded' from my A3000 last year to an A4000/040, I find it really annoying that I need to have two monitors. I kept my NEC Multisync from my A3000, but the A4000 doesn't have a built-in flicker fixer so I've had to buy a 1084S monitor to play games and use programs that don't promote to my EGS Spectrum or DoublePAL (which is horrible anyway).

Are there any companies out there making a flicker fixer for my A4000? I have ➤

Commodore worries

I have been a loyal Amiga owner for the past four years, but am wondering whether or not to keep up my commitment. I have a 1Mb A500 with Workbench 1.3 and a second floppy drive, but am looking at buying a 486-based PC. Commodore just don't seem to be getting back together, and the games companies are dropping the Amiga like a rock, unless you have an A1200. Why can't they convert the games from the A1200 to the A500. I'm sure there must be many more A500 owners out there than A1200 ones.

Matt Coverton, Slough

To be brutally frank with you Matt, your 'loyal commitment to the Amiga' doesn't strike me as that impressive. There are many Amiga owners out there who have spent a great deal more money on their systems. The bottom line with all these PC versus Amiga arguments is, does the machine do what you want it to? If it does, it doesn't really matter that some people call it obsolete, it suits your needs.

If you want an A1200, Matt, go out and get one, there are certainly plenty of people who are willing to sell their machines, but if you want to get a PC, then I guess we probably won't be hearing from you again. As for your complaint about games, there certainly are more A500 owners around at the moment, but the games companies like the added power and memory that come as standard in an A1200, not to mention the fact that games on the PC can be converted much more satisfactorily to an A1200 thanks to its increased graphic abilities.

Sex-net?

With reference to the letter by James Radcliffe and your reply, I would just like to point out that although porn is indeed widely available on the Internet, via the alt.sex.* and alt.binaries.* newsgroups, I wonder how many of the people who winge on about "vile perverts on the Internet" have actually taken the time to try and find these resources.

First of all, as stated by Ezra, you have to have a dial-up connection to the net, then you need to be willing to suffer an increased phone bill, the cost of downloading all those large pictures, and lastly, you need some way of viewing these pictures in a high resolution, true colour display. It is extremely unlikely, perhaps even impossible, to see anyone coming across this material accidentally, much less so than traditional pornographic materials in this country, namely newspapers, magazines or videos.

It seems that the national tabloid press in this country is scare mongering and pandering to the David Alton's of this world who would like to 'protect' us from the vaguest dangers. Censorship is not the answer in my opinion, but education. Bring information to people, not propaganda and dogma.

Reading back over the last paragraph, I sound like a raving nutter, but it's because I am passionate about protecting our rights to self-censorship. Personally, I have no interest in the newsgroups mentioned, but there are people who do. It doesn't bother me that this is what they are interested in and in my opinion, nor should it interest the government.

Adam Savant, Ealing

It seems like you have made quite a study of this subject Adam. I agree with you about the national media, but I think the topic is much further ranging than you give it credit for. There is definitely some material floating around the newsgroups that has serious repercussions in the real world.

Take Jake Baker as an example. He wrote a sadistic story about one of his fellow students and is now being prosecuted. There are people saying that this was a representation of his mindset, and there are those who say it was merely fantasy and harmless. Either way, it will mean a greater concentration of interest in the sex-related aspects of the Internet. Whether this leads to outright censorship remains to be seen, but the upshot is that there are people in power who are looking very closely at the topic.

I think you are right when you say that education is the way forward, but that would require a political party in power that was willing to look past the next general election and concentrate on a time maybe 20 years in the future.

➤

been offered an A2320 flicker fixer from an A2000 but a friend said that it wouldn't work properly in my A4000.

David Style, Northampton

You are in luck, David. Power Computing's are producing an AGA flicker fixer which we will be reviewing very soon. Alternativel, you could use the A2320 flicker fixer, but you wouldn't be able to see any HAM8 screens on it.

Got something to say through the pages of AC? Ezra Surf is our mailman, dedicated to reading your letters and selecting the most interesting for publication. Drop him a line at:

Ezra Surf's Postbag , Amiga Computing Adlington Park, Macclesfield SK10 4NP

Please don't enclose saes as Ezra just hasn't got enough paper to reply personally. He might also have to shorten your letters, so don't be offended if you end up getting the chop.

Printer problems

I have just bought a Canon BJ-C4000 to go with my 6Mb Amiga 1200, but am pretty disappointed with the results I am getting from the standard Work-bench printer drivers. What am I doing wrong?

Steve Jones, Walthamstow

You probably aren't doing anything wrong as it goes Steve, but are you using cheap photocopier paper? It's fine for test prints, but you should really get some proper inkjet paper for the best results.

The other thing to get would be Wolf Faust's Studio II printer system. This gives the best possible quality output for nearly all printer types and does so by bypassing Workbench's rather crude printer.device and replacing it with true 24-bit output. Studio II is available from JAM on (01895) 274449.

Amiga bugs?

Watching the BBC TV program 'Bug', I noticed they seem to be using 1084 monitors for an awful lot of screens, but there seem to be PCs controlling them. Does this mean they are using Amigas for the production of the graphics or are there PCs that can use the 1084?

Julia Smith, Oldham

What quite often happens is that the production company want the machines producing the graphics to look like PCs, so they put a PC on the desk with its keyboard, mouse, etc., but under the desk there will be an Amiga pumping out the graphics.

The reason for this is that the Amiga can put out a video signal at the same speed as the video camera reads it in, so you don't get any of the deeply ugly horizontal bands crossing the screen that you so often see when actual PCs are shown on television.

Manual woes

I recently acquired an A500 upgraded to 1Mb. As a complete beginner with computers and trying to learn BASIC, I was very pleased to see Easy Amos on the CoverDisks of the Christmas '94 edition (issue 81). My first disappointment was getting a 'Sold Out' letter in reply to my order for the user's manual, as it had been described as "Vital to get past the basics."

I partly accepted the fact that this might be the case as we are two months behind you in getting the magazine. I tried a different approach by contacting a relative in the UK to get me the full program, but she was told that the program was obsolete, and that she had no chance of getting a copy. Europress told her the same story.

The question I would like answered is: Why is a CoverDisk advertised with such glowing terms and all the time, after buying your magazine on the strength of it, is obsolete so I cannot follow through with what is obviously agood language?

M F Jacquemin, Kelmscott, Western Australia

Firstly, I would like to say that Easy AMOS hasn't been made obsolete by another program. It is still just as useful and powerful now as the day it was released. Having said that, it is no longer sold, and unfortunately, as has been said in the letters pages before, Europress ran out of the manuals very swiftly, and won't be printing any more.

Amstrad Amiga

I've just seen an offer to get an Amstrad NC100 at what seems a very reasonable price. It would be ideal for me to sit on the train writing my correspondence then download it to my Amiga for final preparation and output. Can you tell me if this is possible, and if so, how?

Simon Robertson, Dulwich

First off, Simon, see if the place that's letting these NC100s go cheap have any NC200s for sale. The NC200 has a standard high density 3.5" floppy drive that will format high or double-density PC format disks which can then be used with your Amiga, provided you are either running Workbench 2.1 or higher, or have a copy of CrossDos, MessyDos or DOS2DOS.

If they don't have any NC200s you can still use the NC100 with your Amiga, but the process is a bit trickier because it works via the serial port of your computer. Either way, they make a great (and inexpensive) alternative to PC-compatible laptops, and the word processor on the NC100 and NC200 is none other than a version of that Amiga favourite, Protext.

CD-ROM or bust

I know that Commodore has disappeared, but do you think the CD1200 will be high on whoever takes over Commodore's list of things to do? I do want to buy a CD-ROM for my A1200, but would rather have Commodore's own model rather than some third-party CD-ROM that probably won't be compatible with my Amiga.

Also, I keep seeing CD-ROMs on the cover of various PC magazines and was wondering if I could use anything from them as they are usually a lot cheaper than the Amiga CD magazines.

Alan Barton, Chelmsford

I think you would probably be better off just going for the excellent Squirrel SCSI interface and an external CD-ROM drive with Amiga CD32 emulator rather than wait for Commodore to be resurrected. The tests we have run on third-party CD-ROM drives have proved to be fairly successful in the main when it comes to running CD32 software.

The only problem lies in the fact that most CD32 programmers don't bother to check the hardware they are going to be running on so there might be memory conflicts, but this is down to the individual programmers and I'm sure that now there are several CD32 emulations available, they will be working on these aspects of their craft a little more from now on.

As to the usefulness of PC CD CoverDisks, you should be able to get some stuff off them with no trouble. If you want to go to the bother of setting it up, you could run Xanim to show quicktime and AVI movies from the disk (or TAPAVI if you were lucky enough to own a Picasso graphics card), and there are datatypes aplenty for the support of pictures like .BMP, .PCX and Jpeg, and sound samples in various different formats including .WAV, .VOC and MacSound.

These are all available on the Aminet and if you get a CD-ROM drive you can save yourself an enormous phone bill by buying the Aminet CD Set 1 which contains practically every single file ever uploaded to the Aminet. You obviously won't be able to run any of the programs directly on your Amiga, but you could try PCTask 3.1 which is a software-based PC emulator, but be prepared for it to be very slow.

Get writing!

In the last survey more than half of you said that you wanted more of the letters pages. That's fine, as long as you readers increase your output too. Send us your letters by the sack full and we will be only too pleased to bump up the number of pages devoted to letters.

BRIAN FOWLER
Computers Ltd

Commodore AMIGA

11 North Street, EXETER, DEVON, EX4 3QS

AMIGA

We're Backing Amiga!

Amiga 1200, CD^{32} and A4000

will reappear shortly thanks to Escom. Phone for latest news, prices and availability.

We have available now memory expansions, accelerators, hard disks (SCSI and [illegible]) floppy disk drives, multi-io [illegible] printers(impact, inkjet, la[illegible] printer and monitor shar[illegible] anything A[illegible]

Want to accelerate *your* Amiga? Talk to us, we know the answers!

brian_fowler@cix.compulink.co.uk

CD32 Expansion Modules

Add Memory, Floppy Drives, Hard Drives, Keyboard, Printer --- turn your CD32 into a real Amiga with the SX-1!

Great Value at £199.95

Studio II

The Ultimate Utility for Amiga Printing

Now In Stock at only £49.95

Retina BLT Z3 Superb 24 bit video card 4MB version Only £449.95

Call for best pricing on Picasso II or the new CyberVision64

AMIGA

Imagine a drive which is almost as fast as a hard drive, but which takes disks similar to a floppy drive ....

Imagine filling this hard drive, and then simply replacing the cartridge and instantly having another 105 or even 270 Megabytes of storage available ....

Imagine saving your work to cartrid[illegible] read the data on any similarly equippe[illegible] ....

Now you're thinking SyQuest [illegible]

SyQuest 270MB SCSI only £399.00

270MB Cartridge just £65.00

External Case/PSU only £85.00

compuserve 100072,1536

Vlab YUV or VLAB Motion. Excellent value in real-time digitising

---

Fusion Genlo[illegible] with *free* SCALA500 just £99.00

ScalaMM400 £299.95

CD32 Connection Kit MarkII

Network to any Amiga or PC

With SERNET - "Just Click and Go"

Only £34.99

We have been selling Kits successfully since October 93! If you want one that works, talk to us!

Upgrade from Connection Kit Mark I available --- Only £16.99

AMIGA

Contact us if you want an Emplant or a new mouse or a WARP or the latest DTP software or a joypad for your CD32 or a PARNET cable or a CyberStorm or a CD full of fonts or one full of clip art or CDPD 4 or the latest AMINET CD or a CD32 keyboard adapter or a SCSI controller or a VLAB digitiser or Flowcharting software or anything AMIGA!!!

All our hard drives are brand-new and specially selected to work with your Amiga. Fully guaranteed!

A4000 tower case from Micronik. 6 x 5.25 bays, 5 x 3.5 bays, 7 x ZorroIII slots, 5 x PC-AT slots and 2 video slots In stock at just **£379.95**

Hard Drives

Fujitsu 528MB IDE	£190.00
Fujitsu 528MB SCSI 1/2	£250.00
Fast IBM 1000MB SCSI2	£500.00
Larger Drives	£CALL

SCSI Controllers

Squirrel £69.95 DKB 4091 £299.95

SCSI CD DRIVES

NEC £179.95 SONY £179.95

Nakamichi 7 CD Drive £349.95

... and lots lots more ...

External SCSI cases with PSU available from £69.95.

SCSI Towers from £99.95

We stock most SCSI cables, and can manufacture custom cables to your requirements here in Devon.

Fax Modems complete with software. Join the Comms revolution! From £189.95 (BT Approved). V34/VFC 28800bps fax/modems now available.

Can't see what you want? Just ring (0392) 499 755 --- we have lots more than we can show here!

Fax us on (01392) 423480

Compare Our Prices ! We don't charge extra for Credit Cards or Standard Delivery. What You See Is What You Pay !!!

How To Order

By Post

Send your Cheque/Postal order to the address above. Clearly state your name, address, telephone number and the product(s) you require. Prices can change so please phone to confirm price and availability. Please allow seven working days for your cheque to clear

By Phone

For an even faster service telephone our sales hot line and quote your credit or debit card number. Friendly and expert buying advice is available at all times.

(01392) 499 755

Prices Correct At Time Of Going To Press.
E&OE. Please Phone To Confirm Latest Prices.

bfcl030

Monday - Saturday 9.30am-5.30pm

01392 499 755

AMERICAN EXPRESS Cards Welcome · SWITCH · EUROCARD · MasterCard · VISA · Access

All Prices Shown Include VAT. Standard Delivery Is Free. No Hidden Extras.

France-Festival-Distribution

We are specialist of great Amiga software as PCTask, DirWork, OctaMED, AURA and specialist of the most powerful and original fractals' software never seen on Amiga! All our products are sold in full commercial English version and payment can be made directly by U.K cheque in pounds. Welcome to F.F.D and enjoy our fractals!

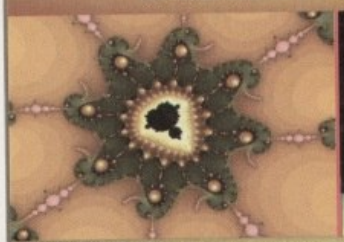
The MultiFractals Within The Reach of All!

ART&FRONTIERS

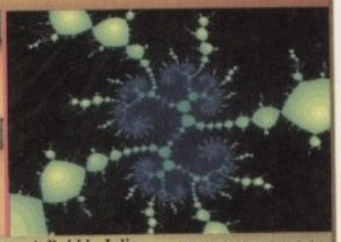
Discover Infinite And Astounding Worlds

© 1995 Fabrice Jaouen & France-Festival-Distribution

Use Exclusive and Great Formulas you have Never Seen!

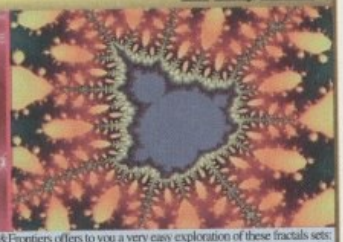


The Bubble Mandel



The Orchid Mandel

A Bubble Julia

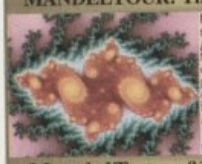


The Leafy Mandel

The Multi-Fractals now has a name on Amiga. This software Art&Frontiers offers to you a very easy exploration of these fractals sets: Mandelbrot classic, Mandelbrots 3 to 7, Mandelbrot Cubic Leafy, Bubble Mandelbrot, Orchid MandelBrot, Mandelbrot Imperial, Quad Fractals, Phoenix, Eagle, Manowar and many others with for each one an easy accessibility to the corresponding Julia with a simple mouse click! A recoloration in 256 colours AGA automatic and adaptative to each type of fractals. Unlimited Undo function and powerfull automatic calculations of animations. All screen modes of Amiga AGA System are available even unlimited overscan! Developed in C language Art&Frontiers allows very hight speed, multitask, reliability and offers a very easy exploration of all these exclusive fractals as Cubic Leafy, Orchid or Bubble Mandel that renew completely the fractals' domain with their incredible forms and Majestic effects! The pictures here have been calculated on a basic Amiga 1200 in very few minutes! We sell also a PAL VHS video with 2 hours of spectacular zooms and animations on all these sets! This video is available at £35.

ART&FRONTIERS: £45 (+ P&P) For All Amiga 1200 or 4000.

MANDELTOUR: The 128-bit Explorer with Dynamic Colour Rendering!

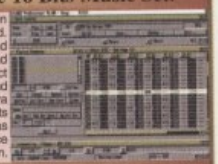


MandelTour is restricted to classical Mandel & Julia sets, but, in a nutshell, *it gives the finest Mandelbrot pictures ever computed on Amiga!* Thanks to its five colour rendering modes, including an exclusive contrast enhanced mode and its revolutionary palette utility, fascinating, gorgeous and very rich in detail images can be obtained in a breeze, whatever the depth in the sets up to a 10^45 magnification! Its assembly routines allow very fast calculations up to 128-bit accuracy! Great and complex animations can be also computed in any of the rendering modes!

MandelTour: £30 (+ P&P) For All Amiga 1200 or 4000

AURA + New OctaMED V6.0: The Complete 16 Bits Music Set.

We offer to you This new and complete version 6.0 of OctaMED with this incredible Aura card. This makes a complete set for digital editing and sampling in 16 bits stereo with direct-to-disk and more than 60 fully programmable sound effect to samples. This set needs a PCMCIA port and so can be used only in Amiga 600 or 1200. Aura and OctaMED can work also in 8 bits for full 8 bits compatibily. This new version of OctaMED has now a powerful multi-windows users'interface with full support for AURA and XPK compression.



AURA + OctaMED 6.0: £130 (+P&P) For All Amiga 1200 or 600

PCTask 3.1: The Only Windows Emulator For All Amiga!

PCTask is the only software 80286 emulator for all Amiga. It allows to run Windows with at least 1.5 Mb of Ram and it proves that: We have tested all the recent Microsoft software as Excel5.0, Word6, PowerPoint4 and they work perfectly! PCTask has also full support of VGA & SVGA modes in 256 colours or even 24 bits with all graphics boards. Support for multiple hard disk files and partitions, CDRom and high-density Floppies. All that makes PCTask the most complete and reliable Windows emulator for Amiga. Of course all MSDos run also!

PCTask 3.1: £60£ (+P&P) For All Amiga

DirWork2.1: We sell it with our Onw and High Level Configurations!

Tetra-Contig, Quadra-Config, Mega-Configs: we have created for you many incredible and complete configurations proving that DirWork is the most powerful & universal directory utility that Amiga has never seen! If you have problems to compact or to dearchive lha, lzx, zoo, dms files DirWork do that for you very easy without any need of complex Shell commands! All is automatic in DirWork! See your picture, print your file, listen your module. DirWork look automatically after all that and let you really enjoy your Amiga. Only £35.

With DirWork2.1 there is always a config perfectly adapted to your need!

NAME & ADDRESS:

COUNTRY:

ORDER:

If you live inside U.K payment must be in U.K pounds by U.K cheque. For outside U.K please convert pounds in French Francs (£1 -> 8 FF) and send us an International Postal Order in FF directly to our street address.

Normal Post & Pack: +£6	Registered Post & P: +£10	TOTAL:

France-Festival-Distribution: 3 Rue Anatole France
FR 13220 Châteauneuf-Lès-Martigues. FRANCE. (Fax: 00.33.42.76.18.70)

AMIGA REPAIRS

FIXED PRICE ONLY £42.99 incl. (A500/+, A600 ONLY)

- ★ Price includes PARTS, 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 AND SOAK test
- ★ If drive or keyboard need replacing add £10

Est. 13 Years

AMIGA A1200 Repairs only £52.99 – Fully inclusive

SPECIAL OFFERS

A500 Internal Drive	£30.95	A600/1200 Internal Drive	£35.95
A500 /600/1200 PSU	£28.50	A500 Keyboard (UK)	£42.10
Fatter Agnus 8372A	£24.30	A2000 PSU	£65.00
Super-Denise	£18.40	A520 Xchange Modulator	£18.00

CHIPS

8371 Agnus (A500)	£12.60
8372A 1 Meg Agnus	£24.30
8375 2 Meg Agnus	£24.30
8374 Alice (A1200)	£32.70
8362 Denise (A500)	£9.60
8373 Super Denise	£18.40
5719 Gary	£7.60
8520 CIA (A500/+)	£15.00
8520 CIA (A600/1200)	£15.00
8364 Paula (A500/+)	£12.34
8364 Paula (PLCC)	£16.70

CHIPS

68000 CPU	£8.50
Video DAC (A1200)	£19.50
Kickstart 1.2	£4.20
Kickstart 1.3	£16.80
Kickstart 2.04	£22.40
Kickstart 2.05	£29.90
Rom Sharer	£15.00
NEW Modulators	£29.50

All spares are factory NEW and genuine Commodore parts. All come with 12 months warranty (Except chips).

HARD DRIVES

Quality 2.5 inch Int HD Suited for A600 & A1200	
60 Mbyte	£120.00
80 Mbyte	£125.00
120 Mbyte	£150.00
170 Mbyte	£195.00
210 Mbyte	£249.00

All drives complete with cable, fitting instructions installation software and 12 months warranty

Add £1.00 P&P on chips, £2.50 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
DART Computer Services
(Dept. AMC), 105 London Rd
LEICESTER LE2 0PF

The Guild of Master Craftsmen

DART Computer Services

A division of D.A. Computers Ltd

BUY DIRECT FROM THE U.S.A. & SAVE

OUR OWN AMIGA CD ROMS

BCI-NET CD (DECEMBER 94) £9.99

Brought to you by BETTER CONCEPTS INC., this CD contains over 1 GIG of the latest, greatest, most useful programs off the Internet. Utilities, games, graphics, music, entertainment plus tons more! All complete with a custom built interface written just for this CD that will let you smooth through the archived files & allow you to launch any program, without ever leaving the interface! Planned to be released quarterly, the latest version available is DECEMBER 94.

SHEER DELIGHT CD32/CD £14.99

Adults only please! This CD is specially designed for your CD32 or AMIGA CD ROM. Filled with over 3,800 images of beautiful women posing in bathing suits, lingerie, semi nude, plus more! Images are all U.K. OK! All complete with viewers!

MUSIC MOD & SOUND EFFECT CD £9.99

- Specially geared towards Amiga owners
- Over 2,800 Music MODS (Classical, Pop, Rock, Techno, Acid, Rave, Mellow...)!
- Over 6,300 Sound Samples ranging from Sound Effects, Digitized speech, all kinds of instruments & more.
- Also comes with several MOD & Sound Sample players for your Amiga computer!

DESKTOP PUBLISHING CLIPART & FONTS CD £9.99

- Specially geared towards Amiga owners
- Clip Art Directory contains over 2,500 B&W EPS Structured Images, 1,500+ IFF Images, plus over 8,000 PCX Images!
- 1,000's of Type 1 Adobe Fonts & Postscript Fonts!
- All your Desktop Publishing & Word Processing needs on one CD!

MANY MORE ON THE WAY!

BARGAIN CD32 TITLES

Pinball Fantasies/Sleepwalker £9; Alien Breed S.E./Quak £16.90; Chaos Engine £8; Bubba & Stix £11; Cannon Fodder £12; Premier £7.50; Manchester Utd Ltd Soccer £10; Banshee £10; Skeleton Krew £18; Castles II £9; Dragonstone £19; Fly Harder £9; Morph £6.25; Kid Chaos £9; Arcade Pool £9.99; Lost Vikings £9; Chuck Rock I £6.25; Out to Lunch £9; Chuck Rock II £7.50; Overkill £9; Tower Assault £18; Darkseed £10; Super Stardust £18; Total Carnage £6.25; Diggers £8; Covergirl Strip Poker (K/B req.) £9.

This is just a small part of what we really have. Get our catalogue to see over 100 titles listed for CD32!

SXI EXPANSION BOARD FOR CD32

This expansion box plugs into the back of your CD32 and turns it into an Amiga 1200 clone! Allows you to hook up RGB monitor, parallel device, serial device, floppy drives, external 3.5 inch & internal 2.5 inch IDE hard drives, any AT-101 style keyboard, additional RAM, mouse & more. Why only have a CD32 when you can have an A1200 also! Only £129!!

- Keyboard for SXI add £25. • Additional 4MB RAM add £103.

ZAPPO CD1200 CD ROM DRIVE

An external, double speed CD ROM drive that hooks up to your A1200's PCMCIA slot and allows you to run CD32, CDTV, any Amiga CD ROM, audio CD's, Kodak Photo CD's & more! Only £169!!

- W/Software Bundle #1: Global Effect CD, Diggers CD & Competition Pro Pad. Only £184.99.
- W/Software Bundle #2: Pinball Fantasies/Sleepwalker CD, Mean Arenas CD & Competition Pro Pad. Only £184.99.

CD32 COMPETITION PRO JOYPAD

- Replaces original CD32 controller
- Heavy Duty Construction
- Turbo Fire & Auto Fire
- Slow Motion Switch
- 1 Year Warranty

£12

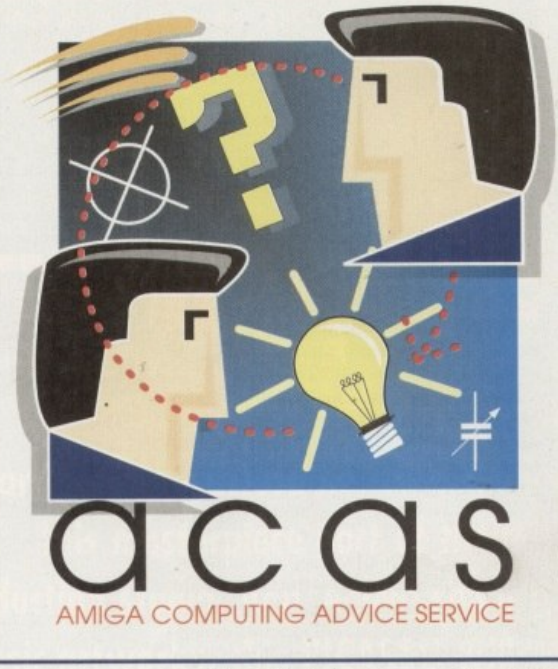
AMIGA REPLACEMENT 2 BUTTON MOUSE £12.50

!SHIPPING & HANDLING EXTRA!
!PRICES INCLUDE VAT & CUSTOMS DUTY CHARGES!

BETTER CONCEPTS, INC.
10 MANDON TERRACE
NEW CITY, NY 10956 USA

914-639-5095 VOICE
914-634-7097 FAX

The dispeller of despair, the light at the end of the dark tunnel. Yes, it's the ACAS pages in time to save all you anguished Amiga owners in need of help



Virus info

As a pensioner and new to the Amiga 1200, I would like to ask some (hopefully not too obvious) questions about something I have heard much about – viruses.

Am I right in assuming that all viruses stick to a disk which is infected and are not destroyed if the computer is switched off for a while and the infected disk loaded again?

If they are as widespread as I think, how come commercial companies have not researched anti-virus techniques they can put on their disks to stop a virus from getting on it in the first place?

I am sorry if you are asked these questions all the time from beginners such as I. I have asked my grandchildren but they are into these consoles and haven't got a clue what I am talking about.

C Burley, Dronfield, Sheffield

Don't worry about asking questions in this magazine, no matter how obvious you may think they are. We all started out as beginners and only graduate further by asking such questions.

As for viruses, bah, a pox on all virus programmers, that's what I say. They should all be rounded up and have their Amigas replaced with a ZX81.

You are right in assuming that a virus 'sticks' to a disk and is not destroyed. This is because it is simply written to the disk, usually in the boot sector, and stays there unless it is erased with a virus killer program. It will therefore remain on the disk and will re-infect your Amiga, and other disks, if it is inserted.

Commercial software companies check their software for viruses prior to sending their master disks off for duplication. It is generally down to the user to ensure that infected disks are not placed into the machine.

To safeguard against viruses, take heed of the following:

1. Always write protect your disks, particularly commercial software such as games. Most commercial software seems to come write enabled these days, even though data will not have to be written to the disks. Only remove write protection if you need to write to the disk or if you are instructed to do so by a message.

2. Always check new disks, especially those given to you by friends.

3. Make sure you run an up-to-date Virus Checker program, for instance, John Veldthuis' Virus Checker, which is currently at v6.52. This should be available almost anywhere including the Aminet, BBSs and Public Domain libraries.

Hard case

Please can you help me. I would like to know if I could put my external 3.5 Overdrive hard drive into my computer. I know I have to buy a special lead for this and the case would have to be cut.

Will the drive run slower using the internal plug, and are there any other problems I should know about before I decide what to do?

Would it be better to sell my Overdrive and buy a 2.5 size drive instead – however, I find these drives are slower and more expensive. I was thinking of using my PCMCIA port for a SCSI CD-Rom. I could plug a hard drive onto the chain but I heard they don't autoboot. Is this true and is there a way of making it autoboot? I would be very grateful if you could answer these questions.

Keith Whitefield, Suffolk

I highly recommend you sell your 3.5 drive and invest in a PCMCIA SCSI interface – the Squirrel SCSI adapter from HiSoft. I have used this device and can confirm that it is quite capable of autobooting, with the manual having a clear step-by-step description on how to set it up properly.

The manual is excellent in general, with clearly written information on connecting and using SCSI devices. HiSoft also have a great technical support department should you have any problems with your product.

I did a few tests to check the speed and found that on average, a standard internal IDE drive had a transfer rate of about 730k a second. I then tested a 130Mb Quantum SCSI drive connected via the Squirrel and this had a transfer rate of 950k a second. This extra speed is noticeable in use too. Compared to the IDE drive, opening a directory window on the SCSI drive was much faster.

Also, SCSI hard drives are relatively cheap, easy to obtain and the higher the capacities, the faster they seem to go.

Add to this the fact that you can connect up to seven different SCSI devices, such as CD-ROMs, scanners, DAT tapes, tape streamers and many other useful devices, and you realise that the Squirrel is well worth the £70. HiSoft can be reached on 01525 718181.

MMU please

I have recently bought a 68030 accelerator upgrade board from a friend – the board is a DKB 1240 and the CPU on the board is a ➤

Shields down

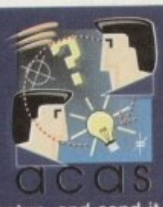
Recently, after fitting an IDE internal hard drive to my A1200, I have been getting strange lines flashing on my screen. These appear as horizontal streaks which flash rapidly and gradually become worse.

Things are OK for about five minutes after first turning on my A1200, but I eventually have to switch my A1200 off and reboot. During the fitting of my drive, I realised there was something rattling inside the motherboard casing so I removed the metal casing and discovered a piece of (non-conductive thank God) plastic. I did touch a couple of chips during the removal of it but was wearing an anti-static wrist strap at the time. What is happening and is there some way I can fix this?

S Harvey, Warrington

When you had finished chasing the little piece of plastic, you did replace the metal cover of the motherboard didn't you? This metal casing is vital to keep stray electronic signals under control. There is a temptation to leave this shielding off for easy access should the need arise.

It sounds like your A1200 is being affected by such stray signals and you should ensure that the casing has been completely replaced.



Do you have a problem? Do you sometimes find yourself poised over your Amiga with axe in hand, spouting profanity at the stubborn refusal of your Amiga software or hardware to behave properly?

Well, calm down and swap the axe for pen and paper, jot down your problems, along with a thorough description of your Amiga setup, and send it off to Amiga Computing Advice Service, IDG Media, Media House, Adlington Park, Macclesfield SK10 4NP.

Any questions?

➤

68EC030. I understand that this chip does not have the Memory Management Unit feature of a full-blown 68030.

Can I simply buy a full 68030 chip and replace the 68EC030 on my board so that I can have MMU capability? I need this as I have a virtual memory utility which requires a CPU with MMU.

M Hardy, Liverpool

If only life was so simple. Unfortunately, MMU features are not merely provided by the CPU. The actual upgrade board requires specific MMU circuitry too. You will therefore have to buy a completely new board if you want MMU capability. What a drag huh?

Internet advice

Please help: I am getting conflicting advice! I own an Amiga 500 with 1Mb RAM: and Workbench 1.3, and I want to access the Internet. One bit of advice states that I can use Workbench 1.3, but I will also need a hard drive, the other states I need Workbench 2.04 minimum, but no hard drive, although it would be preferable. Who, if anyone, is correct, I need to know before I start spending money.

D G W Griffith, Cheltenham

According to Demon Internet Services, the minimum requirement for AmigaNOS is actually Workbench 1.3, but they don't recommend it. They also say that a hard drive is an absolute necessity, along with ARexx, and you really need more than 1Mb of memory.

To be honest with you, your best bet would be to try and find someone you wants an Amiga for playing games on, and sell your machine to them. Replace it with an A1200 with a hard drive and not only will you gain ARexx, Workbench compatibility and the necessary hard drive, you will also have a machine with more colours, more memory and greater speed.

Upgrade angst

I have an A500+ with 2Mb RAM and a Citizen 224 colour printer. Could you please tell me a good, cheap way of upgrading my A500+ to an A1200 or A4000? If there is no way of doing this, I will probably get a second-hand PC.

Kieran Madden, Welwyn Garden City

There is only one way of upgrading any machine to an A1200 or A4000, and that is to sell your current system and buy one. You should be able to find a second-hand A1200 for around £300 with no great trouble. 4000s are more expensive and also harder to come by, but easier to expand in the long run.

I doubt you would get a comparable PC, even second-hand, for £300. By the way, if you do choose to stick with the Amiga, your Citizen printer will still be perfectly compatible to whichever Amiga you decide to get.

Bookworm

I am a dedicated Amiga user (not a game player) and am looking for Amiga books, but seemingly without success. Most shops seem to stock endless PC books, so could you help me with a list?

I. Ward, Cleethorpes

Your best bet to getting Amiga instruction books lies in Mail Order. Here are the numbers for Bruce Smith Books, who produce an awful lot of Amiga books, and for Computer Manuals, who are one of the biggest distributors of computer manuals.

Bruce Smith Books: 01932 894355
Computer Manuals: 0121 706 6000

Sample seekers

I have an Amiga 500+ and want to know more about sound samplers:

1. What is a sound sampler?
2. Can I plug a microphone into one and record speech?
3. Can I take recordings from a tape recorder and play them in?
4. Can you use the samples with a Sound Tracker?
5. What is a Sound Jammer?
6. I've got a budget of £30, which is the best for my money?

Colin Knowles (Age 11), Tring

You've come to the right place, Colin. Here are the definitive answers to your questions:

1. A sound sampler is a device that accepts input from an analogue playback system, like a tape machine or CD player, and slices it up so finely that it can be represented digitally on your computer.

2., 3. & 4. Yes, yes, yes!

5. I give up, what is it?

6. The best sampler for £30 or less is probably TechnoSound Turbo 2, but if you can save up a bit longer, a much better buy would be GVP's DSS8, which is available from Silica who can be contacted on 0171-580 4000.

Did you say mooey?

I was wondering if you or any of your readers could help me find some programs I was looking for:

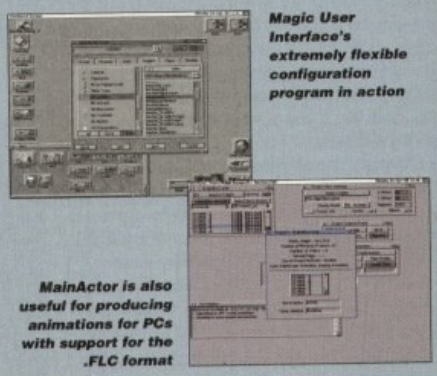
1. I am trying to locate a program called MUI – Magic User Interface.
2. Any program that can convert IMG Clip Art to standard IFF format.
3. A program that will help me make anim files from collections of IFF pictures. I have tried MakeAnim but could not get it to work as it kept crashing my machine – I may have a faulty copy.

All the programs must run on my system which consists of an A500+, 4Mb RAM, 40Mb hard drive and A570 CD-ROM.

David Elliott, Lincoln

Well, David, my answer to the first and last questions is the same – get hold of a copy of the Aminet5 CD-ROM. This contains MUI23usr.lha (in the dev/gui directory) which is the latest version of the Magic User Interface, along with a host of programs that use MUI. It also contains MainActor1_55.lha (in the gfx/edit directory). MainActor is possibly one of the best animation editing packages ever, and it's shareware.

Now, as to your second question about IMG clip art, it's possible there is something on the very same Aminet CD, but I haven't been able to verify it. However, Wordworth 3 and PageStream 2 both support the importation of IMG clips, and if you are really stuck for something to convert them to IFF, you could always screen grab Wordworth or PageStream's screen once you have imported a clip. Not an ideal solution, I agree.



Magic User Interface's extremely flexible configuration program in action

MainActor is also useful for producing animations for PCs with support for the .FLC format

PICASSO for 2 million pounds?

Few studios can afford that.

PICASSO with 2 million bytes!

Serious artists can´t afford not to make this masterpiece part of their production studio. And, unlike some classic artworks, this PICASSO will appeal to all tastes. Up to 16 million colors on a frameless canvas with an amazing 1600 * 1280 resolution. PICASSO II-RTG and Amigas with zorro-bus form the perfect match for VGA and Multiscan monitors. Even supports multiple program environments.

Instead of unrealistic prices, try a realistic £ 299.95

VILLAGE TRONIC

Wellweg 95 D- 31157 Sarstedt - Germany

Tel. +49 (0)5066/7013-10	technical Hotline
Tel. +49 (0)5066/7013-11	Orders
Tel. +49 (0)5066/7013-40	Mailbox
Tel. +49 (0)5066/7013-49	FAX

Blittersoft

Blittersoft • 6 Drakes Mews • Crownhill • Milton Keynes • Buckinghamshire • MK8 0ER

Order Line	+44 (0) 1908 2614-66
Queries/Technical	+44 (0) 1908 2614-77
Fax	+44 (0) 1908 2614-88
BBS	+44 (0) 1908 2614-99

Picassoll RTG, Ariadne, Liana, Pablo, MainActor are trademarks of Village Tronic. Dealer inquiries welcome. All prices are Suggested U.K. Retail Price. Dealer prices may vary. (c) 1995 Village Tronic. All rights reserved.

public sector

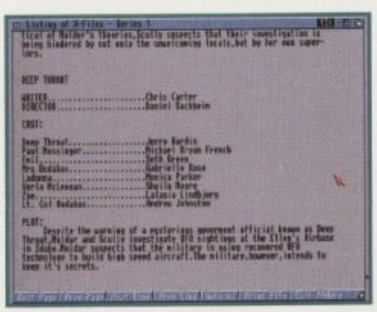
Dave Cusick once more wanders through the wallet-friendly world of PD and shareware

Admittedly, I rave every issue about the high quality of submissions, but this really has been a bumper month for Public Sector. Not only have dozens of disks arrived, but plenty of them are thoroughly deserving of review and unfortunately they simply cannot all be squeezed in. If you have sent something in recently but it's not yet been featured, please be patient because it may still make an appearance. Meanwhile, without further ado let's take a look at the cream of this month's PD crop...

X-Files Guide

Produced by: Various
Available from: OnLine PD
Disk No. OI13

It's official: the cult TV series of the moment is no longer 'Star Trek: The Next Generation.' That's been succeeded by 'The X-Files' which regularly attracted around eight million viewers on BBC2 when the first series was shown earlier this year.



Amaze your friends with obscure facts about Scully and, erm, the other one

The growing number of X-Philes are making their presence felt and the second series, currently being screened on satellite TV, is scheduled to hit terrestrial telly some time this autumn.

If you're one of the 50 million people on this fair isle who are as yet unaffected by the series and you're feeling a little left out of certain conversations as a result, here's the opportunity to brush up on your background knowledge and astound your sci-fi loving chums. This disk contains a selection of text files that some enterprising soul has downloaded from an on-line X-Files site.

Included are episode guides for the first series and some of the second series, FAQs (answers to Frequently Asked Questions), background on the characters, and other information that will make X-Philes' eyes bulge. The question is, how long can you hold out before you too become one?

GAME of the month

Fears 2 AGA

Produced by: Bomb Software
Available from: SAdENESS PD

A year or two ago a bunch of us were round at a friend's house. It was about two or three in the morning, everybody had consumed the contents of a fair few cans, and one of our number was soundly sleeping off the consequences of doing so. All at once, our host led us to his over-priced, underpowered 386.

After a mildly entertaining 15 minutes speaking backwards into his sound sampler and then reversing it to see if the message was comprehensible, we were persuaded to take a look at PC flavour of the month, Doom. And much though I hate to admit it, I was quite impressed.

Since then, plenty of brave programmers have attempted to emulate on the Amiga the wonderfully smooth texture-mapped graphics, wholesome sound effects, and

Die alien beastie thing

Birthdate is a veritable mine of trivial but fascinating facts

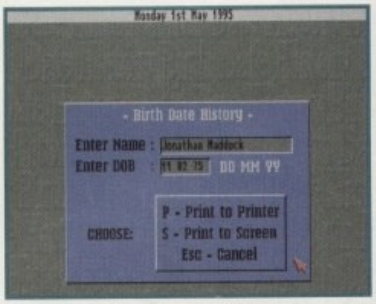
Birthdate History

Programmed by: John L Devoy
Available from: OnLine PD
Disk No. OU98

On the day I was born, the Chinese city of Tangshan was devastated by an earthquake measuring 8.1 on the Richter scale. A pint of beer cost about 33p, Gerald Ford was President of the United States, and John Lennon celebrated his 36th birthday.

This stream of facts, which is beginning to sound like a 'Going For Gold' tie-breaking question (only rather more difficult, obviously), is courtesy of the tremendously informative Birthdate program.

Simply type in your date of birth and you will presented with a whole host of facts including newspaper headlines from that day, celebrities who share your birthday, popular films and songs of the time, world leaders, the cost of living, the results of the year's major sporting events... in fact, all manner of fascinating details. An astrological profile is also presented which, in the cases of the people whose birthdays I tried out, spookily seems to be pretty accurate.



Simply enter your name and date of birth and the program does the rest

All this information can be printed out if desired so you can generate birthdate factfiles for family, friends, close neighbours and innocent unsuspecting houseguests.

This is certainly an excellent idea which has been well thought out and implemented, and as a consequence, Birthdate is sure to prove extremely popular.

By sending a £6 registration fee to the author, you can also own a fully functional version of BMaster, a configuration program which allows you to tweak the Birthdate output to your heart's content.

highly addictive walky-blasty gameplay. Unfortunately, much to the delight of PC-owning friends, few such efforts have been up to the high standards of the original. Now, at last, that situation has changed.

Fears 2 is technically stunning and thoroughly enjoyable to play. Admittedly, this is a game of mindless violence which looks like becoming the new generation of games super-consoles as Streetfighter 2 was to the SNES. But don't let that put you off, because Doom was a hugely superior product and Fears 2 is a faithful reconstruction. This is the best Amiga game for some time, and it should certainly be a part of everybody's collection.

That green bloke is begging for a bullet

What's up these stairs I wonder?

Bartender

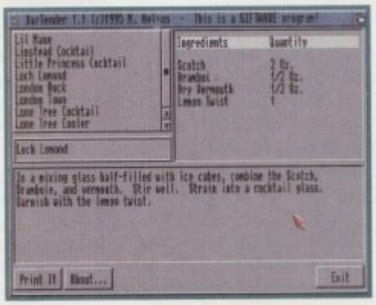
Programmed by: Mike Nelson
Available from: 17 Bit Software
Disk No. F1-074

Bartenders in cocktail bars are immensely annoying people. They possess the ability to remember scores of complex recipes, juggle glasses and cocktail shakers without ever dropping them or spilling their contents, and create two cocktails simultaneously while also coming up with exactly the right change from that tenner you gave them.

Now you have the opportunity to imitate them with this database of 1000 recipes, although it's probably still not a good idea to go straight into all the flash shaker-throwing routines. Included with such favourites as the Bloody Mary, the Screwdriver and the Harvey Wallbanger are more obscure offerings such as the Presbyterian, the Dixie Stinger and the Shamrock.

All sorts of ingredients are involved, but there are no fewer than 18 recipes based on bourbon, 16 based on rum and 21 based on brandy. The recipe list can be scrolled through or the first few letters of the desired cocktail can be keyed into the text gadget and the program will locate it. Each recipe includes a quantative ingredients list and mixing instructions, and can be printed out for convenience.

As the author points out, your liver might not thank you for getting hold of this disk, but I reckon a few of your friends might.



Become the toast of the cocktail party fraternity with Bartender

Speak to me...

...if you have any program, whatever its purpose, which you consider worthy of review. Whether it will be freely distributable public domain, shareware or licenceware, if you feel it's of sufficient quality to merit coverage then stick it in a jiffy bag or padded envelope and send it in with all haste. I promise I'll at least look at your work. Please clearly label the disk, and include a cover letter supplying a description of the disk contents, price and some basic instructions. The address to send the disks to is:

Dave Cusick
PD submissions
Amiga Computing
Media House
Adlington Park
Macclesfield SK10 4NP

Amiga Assistant

Programmed by: John Cumming
Available from: F1 Licenceware
Disk No. F1-074

It may not look like much, but there's a wealth of information within Amiga Assistant

I wish there had been programs like Amiga Assistant around when I had just bought my machine. I'd made the switch from an Atari ST and the intricacies of Workbench baffled me totally – the standard Commodore guide being about as much use as a bicycle would be to a fish.

On offer here through the simple graphical interface is the total demystification of every aspect of Amiga ownership. Information on the various machines, a brief guide to using Workbench, how to create and use icons, the usefulness of scripts, information on monitors and

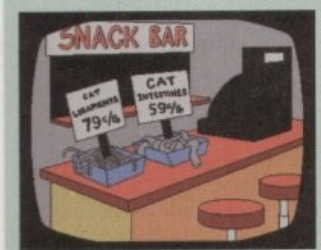
➤

The Itchy and Scratchy Show #2 and #3

Programmed by: Chrome Australia
Available from: On-Line PD

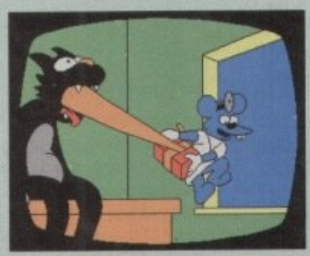
The first of these two very professional cat and mouse mini-cartoons is entitled 'Kitty-Kitty Bang-Bang', and sees the two loveable beasties battling at a bowling alley. The second, the charmingly titled 'Germs of Endearment', sees the cat coming to the mouse to have his tonsils removed, with a similarly comical outcome. The bright graphics are excellently drawn and the animated antics are accompanied by a superb soundtrack, with cheesy title music ('It's the Itchy and Scratchy show' sung in chipmunk-like voices), silly sound effects and suchlike combining to produce a top-quality cartoon.

The only problem is that the animations are both pretty short, lasting only about 20 or 30 seconds before looping. Fortunately, I'm a firm believer in quality rather than quantity and can certainly forgive this, because these are two excellent little cartoons. They are humourous, polished animations which come highly recommended.



My, what a tempting selection of treats for the tastebuds

Cartoon comedy from the cat-and mouse team



I didn't realise having your tonsils out could be such a painful experience

printers... the list goes on and on. For those baffled by buzzwords like multimedia and abbreviations such as ECS, Risc and Jpeg, there's also an invaluable jargon-buster which explains things simply and effectively.

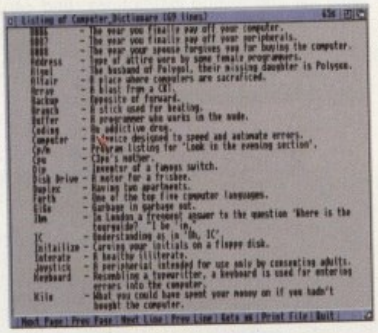
A quick half hour with this and even the most daunted newcomer will know roughly what's going on. What's more, the program can print out text so you can have it on hand when required. This is the sort of disk that should be bundled with every new Amiga.

Joke Disk

Produced by: Leejan Enterprises
Available from:17 Bit Software
Disk No. 3649

Wahey, it's 877k of good, not-so-clean fun covering a multitude of topics as diverse as programmers, religion, telephones, electronic sex, and getting old. Limericks, one-liners, and lengthy stories are all here. Don't expect them all to be in good taste though; there are some pretty sick jokes among them and unfortunately a fair few racist ones too – a good deal of them in one 25k file called One-Liners that will offend practically everybody at some point. But elsewhere on the disk there are also some very clever bits that will have you smiling. Among the more off-beat inclusions are amusing insurance claims (I collided with a stationary truck coming the other way), exam answers (Three kinds of blood vessels are arteries, veins and caterpillars), and an imaginary application form for a Polish motorcycle club. There's also a lot of other pretty funny stuff which couldn't really be printed in a respectable family publication such as *Amiga Computing*, and to be honest not everybody will find the contents of this disk to their liking.

Being compiled in Australia and featuring a lot of American material, it can also seem slightly alien at times, although this isn't really a major problem. If you're easily offended then please beware, otherwise you may find something here to raise a chuckle. AC



Comedy computer definitions from the Jokes Disk

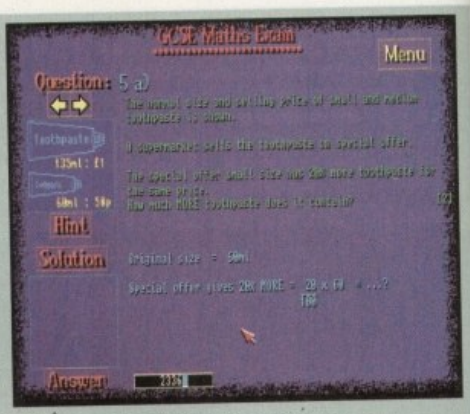
GCSE Maths Exam Papers

Produced by: Thanh Quan
Available from: Freestyle PD

For thousands of schoolchildren across the country, May and June will be very traumatic months. By the time you read this, it will be too late for them to do anything but worry about mistakes they know they made and questions they have since realised the answers to.

It might not have been such an ordeal for them had they realised this little beauty was out there waiting for an opportunity to improve their grade. Questions from a past paper, or from six of them if you pay the registration fee to the author, are put to the student and if necessary gentle hints are given so that the correct answer is reached.

This is an extremely friendly and useful piece of software which oozes professionalism throughout. This is partly due to the attractive and intuitive interface which makes the program a pleasure to use. It's clear time has been spent on the design so that rather than struggling against the interface, the student can simply get on with tackling the exam questions. It might be too late for the current Year 11 pupils, but worried Year 10 students or their parents might want to get hold of this now in preparation for the 1996 exams. As Thanh Quan says, a little time invested in study will return immeasurable rewards.



A few hours with GCSE Maths and even the most puzzling questions may seem easier

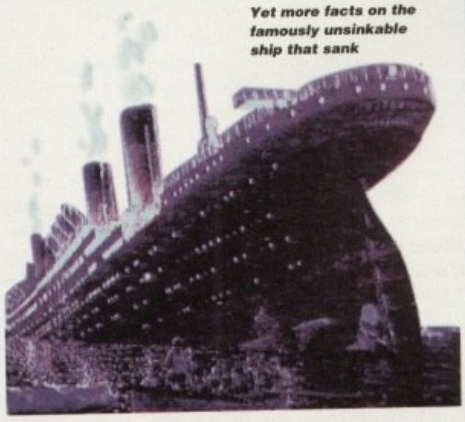
Haunted By You

Over the last few months, a number of programs reviewed fairly recently have been updated. Since space is limited, rather than go through them all again in detail, I thought something of a round-up would be in order.

Firstly, Backdoor v6.66 is the very latest edition of the popular guide to game cheats, and covers absolutely zillions of the things. If you're stuck on level 15 of Alien Herrings From Venus and can't face life any more because of it, then ring OnLine PD now and get hold of your copy.

Next up, Titanic II. Author Paul Thompson has ironed out a few minor bugs and added several whole new sections to this informative look at the famous ship and its ill-fated maiden voyage. Along with a whole host of new text and pictures, there's also a 50-question multiple choice quiz. It's available from him for £4.99, or £2.49 for owners of the first version who send in their disk.

Finally, version 2.0 of disk catalogue program, TurboCat. Author David Hill sent a nice letter shortly after the previous version was reviewed, explaining that he's addressed every single criticism I made of the program. He's also added other handy features such as on-line AmigaGuide help. As a result, TurboCat and the accompanying TurboView record searching program are considerable improvements on the previous versions, and I can definitely recommend them. Roberta Smith DTP have a PD demo of the program, and registered Shareware version costs £5 from the author.



Yet more facts on the famously unsinkable ship that sank

Find the answer within...

17 Bit Software
1st Floor Offices,2/8 Market Street, Wakefield, West Yorkshire WF1 1DH
Tel: 01924 366982

F1 Licenceware
31 Wellington Road, Exeter, Devon EX2 9DU
Tel: 01392 493580

Freestyle PD
108 Woodside Way, Short Heath, Willenhall, West Midlands WV12 5NH
Tel: 01922 710985

David Hill
165 Owen Avenue, The Murray, East Kilbride G75 9AQ

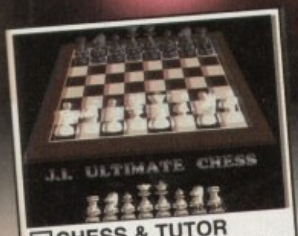
OnLine PD
1 The Cloisters, Halsall Lane, Formby, Liverpool L37 3PX
Tel: 01704 834335
(75p per disk + 75p P&P)

SAdENESS PD
13 Russell Terrace, Mundesley, Norfolk NR11 8LJ
Tel: 01263 722169

Roberta Smith DTP
190 Falloden Way, Hampstead Garden Suburb, London NW11 6JE
Tel: 0181 455 1626
(90p per disk + 50p P&P)

Paul Thompson
7 Queens Road, Formby, Merseyside L37 2HF
(Please state OS version when ordering)

THE EPIC SENSATION



☐ **CHESS & TUTOR**
A complete chess program with intergrated tutorial. (includes speech) Order code JIT5-2

☐ **DISK EXPANDER**
Doubles the available space on your hard drive. Order code EPU5-2

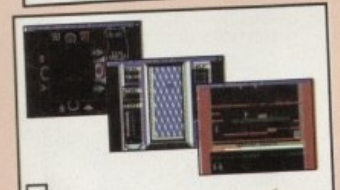
☐ **WB3 BACKDROPS**
A great selection of superb Girly pictures to place in the background of your Workbench. Give it that personal touch. Order code: WGB5-2

☐ **COPY THAT FLOPPY**
A set of the most powerful disk copying tools available on the Amiga.
Ordre code :CPY5-2

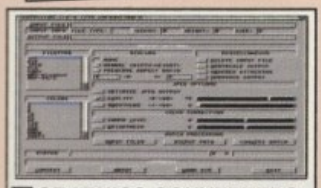
☐ **LUCKY DIP CDROM**
A mixed bag of Modules, tools, Objects, SFX, GFX tools, Demos, Games and loads more. A bargain at just £5 +£1P&P Order: CDLDR49

☐ **BANSHEE** ☐ CD32 VERSION ☐ A1200 VERSION
State of the art 4 disk vertical scrolling shoot 'em up with superb sound & graphics, and unbeatable playability. Rated over 90% in most magazines. *Only available when purchased with at least two other titles.
Order code: BAN5-1

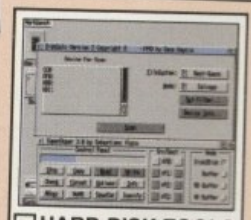
☐ **IMAGINE HINTS & TIPS**
Imagine Hints, Tips, and tutorials is the perfect companion for Imagine users. Includes a 40 page book plus a free companion disk. Order code: HTT5-1



☐
Play classic spectrum games on your Amiga. This pack includes over 50 All time classic Spectrum games.
Order code: SPE5-3



☐ **GRAPHICS CONVERTERS**
The complete graphics manipulation package for Workbench 2 & 3 machines Order code GFC5-2



☐ **HARD DISK TOOLS**
An essential purchase for Hard drive users. Includes HD Backup, Salve, menu system and more. Order code HDT5-2

☐ **CATALOG SYSTEM**
The complete cataloging system for Disks, games, CD's, videos etc Code CTG5-3

☐ **WORD FINDER PRO.**
This is the most powerfull Word search / Cross word solver available. Over 58,000 word dictionary, and you can add your own. Order code: WFP5-2

☐ **STARTREK TNG**
A superb new Workbench enhancer kit that turns your Workbench into a virtual bridge. ENGAGE!. Includes samples, tools, and images.
Order code:TNG5-2

only £5 each

FREE BOX OF TEN **TDK** DISKS
WITH EVERY PURCHASE OVER £25.00

☐ **CENTREFOLD SQUARES**
A great game for Adults!!!
Order code:CFS5-1

☐ **AMIGA POWER TOOLS**
new collection of tools for Workbench 2 & 3, Includes Hard disk tools, Virus killer, sound & graphics tools, text editor and loads more. Order code

☐ **LOTTERY WINNER PRO.**
Lottery Winner Professional attempts to predict the National Lottery draw with as little as just a few months data. Every week you input the winning numbers and lottery winner will predict the following weeks numbers. (OFFICIAL FULL LICENCED VERSION) Order LWP5-1

☐ **ARCADE CLASSICS 2**
8 All time classic arcade games. Pacman, Frogger, Asteriods, Space Invaders, Centipede, Missle Command, Q-Bert, & Omega Race. Code ARC5-2

☐ **MAGIC EYE CONSTRUCTION**
Create your own fascinating Magic eye images on your own computer. supplied complete with viewer and exaples. Great fun for all the family. Order code RDS5-2

Victoria Centre,
138 Victoria Rd,
Swindon, Wilts.
SN1 3BU. UK

Main Order Hotline.
01793 490988

Order Hotline.
01793 514188

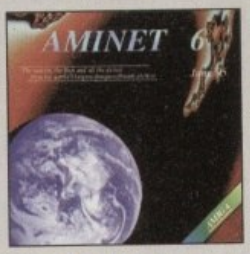
PRIORITY ORDER FORM
Name_____
Address_____
_____
_____
Amiga Model_____
Payment Method_____
Credit card number _____
Exp date _____
ALL TITLES ARE COMPATIBLE WITH ALL AMIGA'S UNLESS STATED.

ORDER VALUE		
Please send me..		£.
Total goods value		£.
Postage & Packing		£.
Amount enclosed		£.

OVERSEAS ORDERS
Overseas orders are welcome, but there is a minimum order of 3 titles, and please add £1.00 per item.
COLLECTING YOUR ORDER
You are welcome to collect your order from any time between 9:30am - 5:30pm Monday - Saturday.
ORDERING BY POST
Simply send us your order, listing the items you require, the total cost, and your name & address with payment either by cheque or Postal Order.
ORDERING OVER THE PHONE
Call any time between 9:30 & 5:30 Monday - Saturday with your Credit card details and the items you would like to order.
POSTAGE & PACKING
UK & Mainland. add a total of just 50p
Overseas. Please add £1.00 per title.

LICENCED SOFTWARE
Most titles advertised here are Licenced exclusively to us, and so are not available from other software outlets.
CONDITIONS OF SALE
Goods are not sold on a trial basis. E&OE.
Your statatory rights are not affected.
TECHNICAL SUPPORT
With a dedicated Technical supports line we offer 30 days free technical support to all our customers on all our software titles.
SATISFACTION GUARANTEED
We now have a powerful new order processing system which ensures that over 90% of orders are processed within 48hours. And with over 80,000 satisfied customers you can be sure of a good service and fast delivery.
PRODUCT KNOWLEDGE
8 full time Knowledgable staff to assist you.

..CD-ROM...CD-ROM...CD-ROM...CD-ROM...CD-ROM...CD-ROM...CD-ROM...CD-ROM...CD-ROM...CD

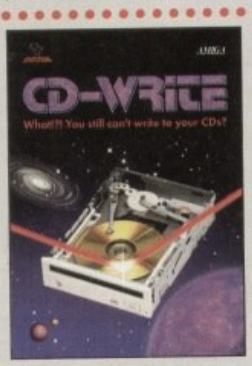


Aminet 6

Aminet CD 6, dated June 1995, consists of approximately 1,1 gigabytes of software in 3600 archives. Since the release of Aminet CD 5 more than 540 MB new software has appeared. The current edition has a special focus on demos, more than 1800 demos from Aminet were included. User friendly access software make the Aminet CD 6 a pleasure to use. £14.95

Aminet Set 1

Aminet is the world's largest collection of freely distributable Amiga software. Up to 10.000 users access the vast archives every day and countless programmers publish directly via Aminet. Until recently access to Aminet was restricted to international network users. With Aminet Set 1, consisting of 4 CDs, the complete archive is published the first time. This CD-ROM-collection, which is dated January 1995, offers an almost inexhaustible reservoir of top-value Shareware. A wide variety of programs is included: Applications, Games, Demos, Pictures, Mods, Animations, Developer-Material, ... It contains approximately 4 gigabytes of software in 12.500 archives and you will enjoy the comfortable user-interface. £29.95

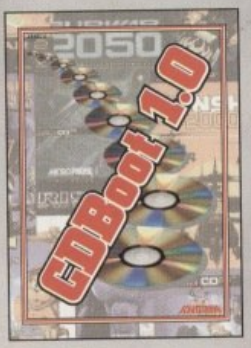


CD-Write

What!?! You still can't write to your CDs!! CD-ROMs have long been an essential part of Amiga computing. Many users already own a CD-ROM drive, and the number of software packages available on CD is increasing steadily. Until now, though, it was not possible to write to CDs. We have solved this problem with our new revolutionary product: Ralph Babel and Stefan Ossowski's Schatztruhe are proud to present what can be considered a marvel of technology: CD-Write enables you to virtually write to CDs with an ordinary CD-ROM drive. From now on, you will be able to write, delete, and modify data on your CDs. This product will take you into a new era, and you will be able to utilize CD-ROM technology to its fullest. £44.95

FreshFish 8

The FreshFish CD-ROM-series, produced directly by Fred Fish, provides Amiga users with hundreds of megabytes of the latest freely redistributable software. Published approximately every two months, each volume is a two CD set containing new submissions since the latest volume, as well as an ever growing selection of tools, libraries, documentation and other useful material that is updated with every release. £29.95

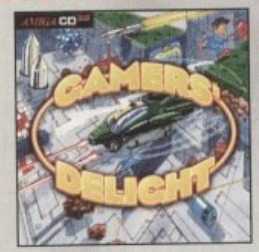


CDBoot 1.0

CDBoot is a fantastic new product that enables you to use almost any CD32 games on an A1200 or A4000 (with AT- or SCSI-CD-ROM drive and any filesystem). You can create a configuration file for each CD, containing information on the Joypad emulation. You can also save the highscore of each CD32 game. The usage and installation of CDBoot is very easy, also for beginners, due to the excellent English manual. Since the compatibility is very high, you can use 98% of CD32 games currently available. CDBoot is an excellent software solution for all Amiga-Freaks, who would like to enter the world of CD32 games! £34.95

FreshFonts II

The FreshFonts II CD-ROM contains 632 megabytes of fonts for almost any computer system. Most of the fonts are freely distributable, except for the Thienen fonts, which are exclusive on this CD. Each of these fonts is included in four different formats: DMF, Agfa IntelliFont, Adobe and TrueType. There are 231 font families on this CD (each containing of up to 8 different styles). They are classified in seven categories: Deco (63 families), Non-Latin (33 families), Pictures (16 families), Sans Serif (29 families), Script (36 families), Serif (36 families), Thienen (19 families). £19.95



Gamers' Delight

This CD contains 40 games for the Commodore Amiga from differing categories: Action, Jump & Run, Card Games, Puzzles, Strategy Games - a whole range of computer entertainment awaits! Gamers' Delight will hold you captivated for hours and guarantees long-lasting pleasure. All games are commercial versions - no public domain & no demos! This CD can be run on any Amiga with CD-ROM drive, CDTV or Amiga CD32 Console with 1 MB free memory and Joystick/Joypad. £29.95

GoldFish 2

Volume 2 of the GoldFish series contains a selection of software, animations, pictures and other material released on FreshFish CD-ROM's between October 1993 and November 1994, with most of the material updated to the latest available versions. All material is included in both archived (BBS-ready) and unarchived (ready-to-run) forms. £29.95

LIGHT ROM

The LIGHT ROM CD contains almost 650 megabytes of 3D objects, images, images sequences, scene files, surface attributes, bump maps and textures, in IFF and TARGA formats, DEMs, and Lightwave related text files. LIGHT ROM is an invaluable resource for Lightwave users, and as a bonus, includes material for Sculpt 3D and Imagine users. £44.95

Magic Illusions

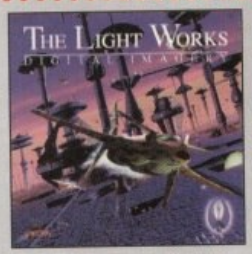
3D Stereograms on your screen! A new, interesting entertainment is born: Without special aids a three dimensional colourful and fantastic object appears suddenly on a two dimensional strangely patterned picture. The illusion of depth has already stunned millions of people around the world. Now you can view the stereograms at home on your screen! All you need is on this CD. Besides 200 stereograms with varying difficulty, there is software on the CD, which enables you to create your own 3D pictures. £12.95

Gateway!

Gateway! offers NetBSD 1.0, a full featured UNIX-like operating system with both sources and binaries for the Amiga, i386, Sun 3, and other architectures. Go networking with the large selection of supplied networking tools. Other supplied packages include a binary release of the X window system (X11R6) for the Amiga, with many additional clients, and packages such as perl, emacs, games, mail programs, and many megabytes of important text files such as RFCs and FAQs. A complete installation guide is available on the CD. There are also some AmigaDOS internet utilities, such as clients for AmiTCP and Envoy. £9.95

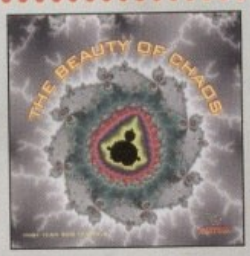
Meeting Pearls Vol. II

The Meeting Pearls Volume II contains 630 MB of the finest FD software via a special user interface, which has been created to allow you to find the program of your choice with ease. The contents: 35 MB of selected html-pages - 50 MB graphics programs and data - 15 MB games - 10 MB from "The Party '94" - 13 MB disk, hard disk - CD-ROM and SCSI tools - 19 MB various other tools - 11 MB educational software - 25 MB terminal programs - 25 MB animations, mainly from Eric Schwartz - 40 MB developer tools (e.g. pre-installed compiler (DICE, Oberon, Modula), Commodore-Includes, GUI-Tools) - 9 MB music programs - 10 MB midi programs - 27 MB pictures - 60 MB texts, FAQs, CD contents files, etc. - 40 MB linux for Amiga - 100 MB TeX installation (PasTeX incl. 600 dpi and fax fonts) - 38 MB movie data base - 50 MB archives for Psion - 18 MB modules - 50 MB NetBSD for Amiga, ... £9.95



The Light Works

Raytracing - A fascinating area of the computer graphics. Pictures from the computer, perfectly rendered, fascinate people all over the world. The Amiga was the first computer to be used for raytracing, and today it is still a leader, with many high quality programs. A real artist of raytracing is Tobias J. Richter from Cologne/Germany, whose detailed objects stun the people. Especially his space ships of famous science fiction films are used to demonstrate the capabilities of a raytracing program. The objects are highly detailed and extremly realistic due to the application of complex surface textures of the models. Until now it was difficult to acquire these objects in order to create ones own scenes or animations. £39.95



The Beauty Of Chaos

Dive into the fantastic world of the fractal geometry and make a safe journey through the depths of the mandelbrot set. This CD includes 507 mandelbrot pictures in GIF format (256 colors) in the resolutions 1140x890,1024x768, 640x480 pixel, 20 selected true color pictures in Tif-format, Graphic viewers for PC, Amiga and Macintosh (packed). £14.95

All products are available in your local Amiga-shop or through national mail-order-companies

SCHATZTRUHE

International Distributor:

GTI

GTI
Grenville Trading International GmbH
Zimmersmühlenweg 73
61440 Oberursel · Germany
Tel +49-6171-85937
Fax +49-6171-8302
EMail: Compuserve 100336,1245

CHIARI OFFICE - 1995

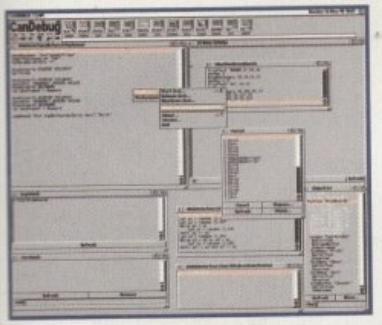
Bug killer

Ben Vost looks at an add-on for CanDo 3 that makes sure your code is up to scratch

As a follow up to our recent review of CanDo version 3, here's an add-on that will become essential to me as my expertise grows with CanDo. CanDebug is, as its name suggests, a debugging tool for your CanDo scripts. It requires version 3 of CanDo, or better, along with 500k of hard drive space for installation.

CanDebug's forté is to run through the scripts that go to make up a CanDo application, testing the integrity of each before proceeding onto the next. You can keep an eagle eye on the variables and arguments that your application uses, as well as checking on memory usage. Normally, you won't have a problem dealing with the more obvious bugs in your script, and see what is making them tick, draw, write and show.

One bad thing about CanDebug is Inovatronics' choice of colour scheme for the screen that CanDebug uses. For some reason, they decided that a sort of neon peach colour would be really settling for the eyes, especially when the file requester is used.



This cluttered interface hides the power that underlies CanDebug

As it stands, nothing could be further from the truth. It might have made sense to use the same screen palette as CanDo, or even just the four Workbench colours. After all, it's not as though CanDebug really gains from an eight colour palette – the extra four colours are solely being used to prettify (if you can call it that) the screen.

Other than this fairly minor complaint, CanDebug does what it says it will, just like the advert for wood varnish, so you won't be disappointed if you maintain large CanDo scripts that have evolved over a long period. It's a little overpowered for my current needs, but I'm sure that when I become a power CanDo programmer I will really be thankful for its many abilities. AC

SYSTEM ESSENTIALS

RED = Essential **BLACK** = Recommended

The bottom line

Product: CanDebug v1
Company: Inovatronics GmbH, Lise-Meitner-Str. 1, 85716 Untershleissheim, Germany
Tel: 0049 89 3173164
Price: DM199 (roughly £75)

Ease of use	8
Implementation	8
Value for money	6
Overall	7

CanDebug's tools

One of CanDebug's informative icons is the small stack under the 'g' in CanDebug. This shows CanDebug's current status and can be in one of several states. Most importantly, this icon lets you know if CanDebug is single stepping a script or letting it run through. It will also let you know when CanDebug is attempting to stop a script (or it is waiting for the end of a particular script.

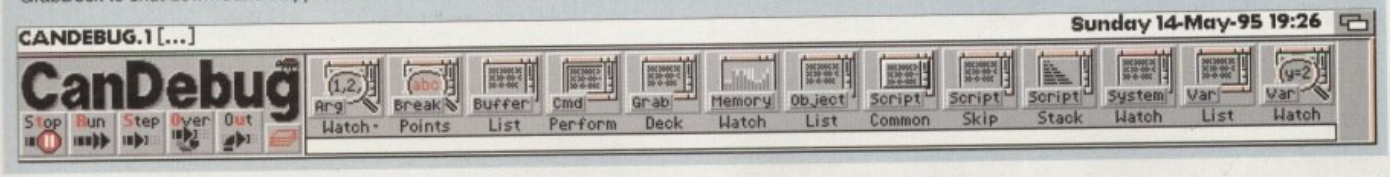
ArgWatch – shows the arguments in the current line of the script you are debugging. BreakPoints are places in your CanDo application that can be singled out for special attention. This icon brings up a list of all the break points defined for your script and lets you edit them, show them or remove them.
Buffer List – lets you check out information relating to the buffers loaded by your program. Buffers in CanDo can be anything from a sound to a text file.
CmdPerform – lets you try out changes to a program without actually having to change the script itself. This makes it easier to try a different setting for a variable to see if the new version works better, before committing yourself by changing the script.

Unfortunately, although this module has an edit menu with cut, copy and paste commands, they are implemented in an even worse fashion than CanDo's own text editor. CmdPerform is limited to cutting, copying and pasting the entire contents of the CmdPerform window only, and doesn't use the standard Amiga clipboard to do so either.
GrabDeck – is a sort of task watcher which looks for any CanDo applications running on your machine and if they are unbound (not compiled into a standalone application), then you can choose to debug the. Even if they are bound you can still use GrabDeck to shut down CanDo applications.

MemoryWatch – is a chart showing the memory used by your app. It has a cycle gadget to let you move between different scales from 64k to 16Mb and shows not only the amount of memory allocated as a whole to the program, but also the amount actually being used.
ObjectList – shows all the objects contained within your program. Objects may be defined as the buttons, text fields, cycle gadgets and so on that your deck actually uses. The objects shown in the list are further subdivided into ones that are currently 'attached' (in use) – shown in white – and those that aren't – shown in black.

ScriptCommon – is a special case. Because CanDebug's many windows can really clutter up a standard resolution screen, ScriptCommon lets you open just one script window into which every script is piped.
ScriptSkip – lets you define scripts in your application that can be automatically executed at top speed.
ScriptStack – shows the current script in an opened window topped by iconified windows of all the scripts, hence the name of the script.
SystemWatch – gives a general view of the application being debugged, with specific topics for information like Memory, Graphics, System, etc.
VarList – gives you a list of all the variables being used in the deck as they appear and lets you trace them through the scripts as they execute. It tells you the name of the variable as well as its type.
VarWatch – is the complement to VarList and lets you examine specific variables and add new ones to the list.

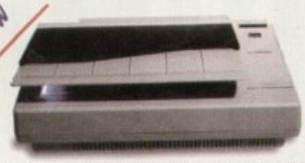
Most of these windows are actually separate program modules and as such have their own menus and settings, etc. Most importantly, with most of the modules you can set them to auto refresh, saving you the hassle of having to constantly hit the refresh button in all the windows on the screen.



•BEST SELLERS•

GASTEINER 2400DPI SCANNER

NEW



The only scanner available for Amiga with 2400x2400 dpi with interpolation.
Full 24 Bit scanning.
Full SCSI-II interface.
Includes scanning Software for Amiga's.
Compatible with any Amiga/PC/Mac with a SCSI card.

£399

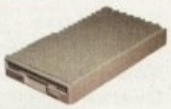
GASTEINER CD-ROM DRIVE

Double speed technology and multisession.
Full SCSI controller.
Compatible with any Amiga with a SCSI adaptor (A600/A1200 with Squirrel adaptor)
ISO9660 Red Book,
Motorised CD loading tray.
CD32 Emulation Software.
SCSI thru port for additional SCSI devices.

£199

GASTEINER EXTERNAL FLOPPY DRIVES

NEW



800K/Double density Media sizes.
Half height slimline design.
Built in On/Off switch.
Floppy drive thru port.

£39.95

ALFA DATA HARD DRIVE

SPECIAL OFFER
420MB £235
730MB £319

Fits into A500/500+ Side Expansion port.
A500/500+ External IDE Hard Drive unit.
Upgradable to 8Mb Fast Ram.

Bare HD case. **£99**

GASTEINER INTERNAL SCSI/IDE HARD DRIVES

A600/A1200 DRIVES FREE FITTING

Fast IDE hard drives, 900+Kb/sec, seek 14ms ave.
Fast SCSI hard drives, 1200+Kb/sec, seek 9ms ave.
Slimline 2.5"/3.5" mechanism.
Low powered 2.5" internal A1200/A600 IDE drives.
Formatting and installation software included. (for A1200/A600)

2.5"		3.5"IDE		3.5"SCSI	
40Mb	£50	420Mb	£149	120Mb	£99
80Mb	£79	540Mb	£179	340Mb	£169
120Mb	£99	720Mb	£239	540Mb	£179
240Mb	£200	1Gb	£329	730Mb	£229
340Mb	£299			1Gb	£429
810Mb	£499			2Gb	£799

GASTEINER A600/A500 RAM BOARDS

Simply plug in and go!
Fits internally in trap door.

A600 1Mb Without Clock.	£20
A600 1Mb With Clock.	£33
A500+ 1Mb Without Clock	£20
A500 1/2Mb Without Clock	£15

GASTEINER A1200 RAM CARD

Industry standard 72 pin simm upgradeable to 8Mb.
Fits internally in trap door.
Compatible with PCMCIA slot.
Upgrade with any FPU size.
With built-in real-time clock.

Unpopulated board **£49**

2Mb 4Mb
£109 £169

GASTEINER SYQUEST DRIVES

Compatible with any SCSI card. (Squirrel with A1200)
(Oktagon 4008 with A2000-A4000)

	Internal	External
88Mb	£189	£259
105Mb	£199	£279
200Mb	£299	£379
270Mb	£299	£399
Squirrel adaptor		£54
Oktagon 4008		£129

GASTEINER POWER FAX MODEM

NEW

28800bps ITU-T V.34 Data Protocol.
14400bps ITU-T V.32Bis Fax Protocol.
Compatible with all Amiga computers.
All data speeds from 300bps - 28800bps.
Class 1 + 2 fax modes.

14400bps Fax/Data Modem. **£116**
28800bps Fax/Data Modem. **£246**

ALFA DATA MOUSE

400 Dpi resolution.
100% compatible with all Amiga's.
Effortless finger-tip operation with reliable microswitch buttons.

£9.99

OKTAGON 4008 SCSI CARD

SCSI-II controller card, upgradable to 8Mb zip ram, ideal for A2000-A4000 range of Amiga's and any SCSI CD-Rom drive.

OKTAGON 4008 card	0Mb	£129

BLANK DISKS

	DD	HD
10	£3.50	£6
50	£15	£25
500	£145	£245
1000	£280	£480

MONITORS

High quality 14" monitors, suitable for A500-A4000 range.

MicroVitec 1438	£279
MicroVitec 1440	£399
Phillips 8833MK2	£249

TANDEM IDE CONTROLLER

Ide controller card for A2000-A4000 to drive a Double/Triple or Quad speed Mitsumi CD-Rom drive. Or just another internal hard drive.

Tandem card	£69
Tandem card + Triple Speed CD	£169
Tandem card + Quad Speed CD	£199

F.P.U

Increase the speed of your machine when adding this chip to your accelerator cards. Suitable for Viper/Ram cards for A1200 and for A4000/030 cpu's.

28Mhz	£24
33Mhz	£39
40Mhz	£89
50Mhz	£110

GASTEINER EXTERNAL SCSI HD CASE

External hard drive case for Gasteiner hard drives.

External case + PSU cable	£69

30 PIN SIMMS

30 Pin simms, suitable for A500/A600 ram cards and third party Ram/Accelerator cards.

1Mb	£27
2Mb	£89
4Mb	£109

64 PIN SIMMS

64 Pin simms, suitable for GVP ram cards and Accelerator cards.

4Mb	£199

72 PIN SIMMS

72 Pin simms, suitable for A4000/A1200 ram cards and Accelerator cards.

1Mb	£35
2Mb	£69
4Mb	£129
8Mb	£269
16Mb	£399
32Mb	£899

ZIP RAM

Zip ram, suitable for A500/A500+ Alfa data hard drives, Oktagon 4008 SCSI card and the A3000.

Every 2Mb	£100

A1200 ACCELERATOR CARDS

Increase your computing power by adding an accelerator card for your A1200.

Viper 68030/28Mhz	0Mb	£119
Viper 68030/28Mhz	2Mb	£189
Viper 68030/28Mhz	4Mb	£249
Viper 68030/28Mhz	8Mb	£359
Viper 68030/40Mhz	0Mb	£189
Viper 68030/40Mhz	4Mb	£319
Viper 68030/40Mhz	8Mb	£449
GVP A1230/40Mhz	0Mb	£109

DELIVERY CHARGES

ALL PRICES INCLUDE VAT. SMALL CONSUMABLES AND SOFTWARE ITEMS UNDER THE VALUE OF £59 PLEASE ADD £3.50 P&P. OTHER ITEMS EXCEPT LASERS, NEXT DAY COURIER SERVICE £10 PER BOX. OFFSHORE AND HIGHLANDS, PLEASE CALL FOR A QUOTATION. IN ADDITION WE OFFER THE FOLLOWING EXPRESS SERVICES: SATURDAY DELIVERY NORMAL RATE PLUS £15 PER BOX, MORNING, NEXT DAY NORMAL RATE PLUS £10 PER BOX, E&OE PRICES SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. ALL TRADEMARKS ACKNOWLEDGED.

HOW TO ORDER

WHEN ORDERING BY TELEPHONE PLEASE QUOTE YOUR CREDIT CARD NUMBER FOLLOWED BY THE EXPIRY DATE AND ALSO YOUR FULL NAME AND ADDRESS. IF PAYING BY CHEQUE PLEASE MAKE IT PAYABLE TO GASTEINER TECHNOLOGY. IN ANY CORRESPONDENCE PLEASE QUOTE A PHONE NUMBER AND ALSO A POSTAL CODE. PLEASE ALLOW FIVE WORKING DAYS FOR CHEQUE CLEARANCE.

GASTEINER

126 FORE STREET, UPPER EDMONTON, LONDON, N18 2XA
TEL: 0181-345-6000 FAX: 0181-345-6868

The do's and don'ts of surfin'

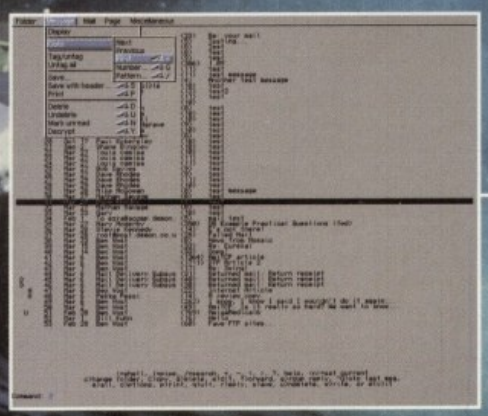
Ben Vost gives some tips and hints for polite, trouble-free Internet usage

With the Internet getting more crowded these days than downtown Delhi, it is becoming ever more important to get your message across while annoying the smallest number of people possible. You can travel the superinfobahn wearing nothing but a pink tutu, flippers and marmalade, but as far as everyone else is concerned, this is what you look like: :-).

This anonymity can be a double-edged sword. While it grants us freedom from gender, age and colour, it also means that although we might be trying to be really funny, people aren't going to know unless we give them really obvious clues, all the time. And it's just possible that people might think we are annoying, rude or just plain mad. So this isn't a guide to your behaviour on the net, but how to deal with other people's.

Let's start with e-mail. This is probably the most private of the methods for getting your point across to other users. E-mail can be addressed to just one person, or to groups of people, but the same rules still apply. Be aware of where your mail is actually going to go. Obviously, it will be going to your friend or colleague, but where will they be reading it? If it contains information that is sensitive or that you'd rather keep secret, perhaps you should mail it to them at their home account, rather than at work or university.

If you are sending important information, trade secrets, or otherwise sensitive material, it is worth remembering that e-mail can be very easily faked or forged. Make sure that what you are getting is actually from the person you expected. Until e-mail is made more secure, the ➤



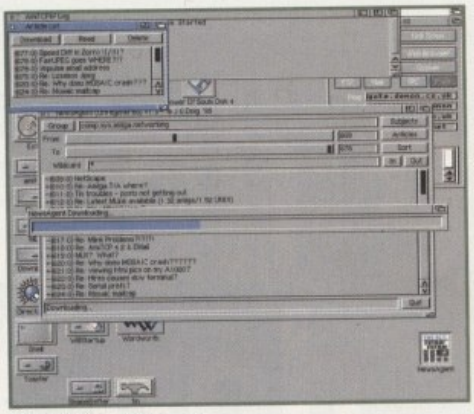
A postman's life may be a jolly one, but I prefer to deliver my mail by clicking on a button

easiest way of doing this is to give them a telephone call or send them an e-mail confirmation of their request before sending the information itself. In fact, it's never a good idea to send UUencoded binaries of enormous size without first checking that the recipient of your generosity is actually going to be happy staying online to download all this information.

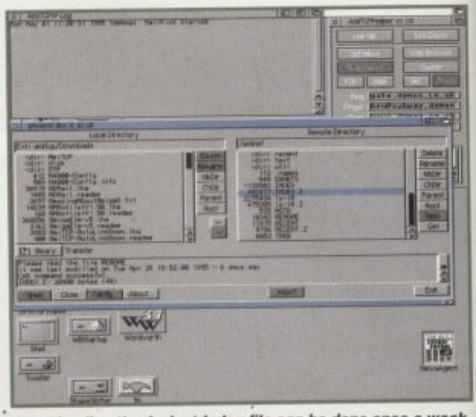
The same thing applies with constant referencing. If you have taken part in an e-mail conversation where there are numerous levels of quoting, trim your reply a little. It's highly likely that the other party still has the previous correspondence, so they can always refer back to that if necessary. In general, you only really need to quote direct questions when giving replies, along with pertinent ancillary information. Leave all the earlier stuff out – basically anything you have read more than once.

NO PRIVACY

We'll go onto a related topic now, that of UseNet. Usenet can be treated just like e-mail, but on a worldwide basis. Many thousands of people could end up reading what you have written, so it is even more important that you pay attention to what you are saying. Flame wars can be started by the most trivial things such as poor spelling or what might seem to be perfectly innocent comments. It is vital that you trim quotes when you follow up a thread to prevent bandwidth from being wasted.



NewsAgent – A splendid new method of gathering your news articles selectively should help anyone who doesn't want "noise" articles



Downloading the Aminet Index file can be done once a week and prevents those embarassing "Where is...?" questions

You also never know who might be reading the newsgroup you are posting to, so avoid the example set by Jake Baker who wrote a story in one of the alt.sex.* newsgroups and had the idiotic idea of using the name of one his fellow students for the victim of a fairly sick fantasy.

It resulted in Baker being arrested, and now there are deliberations to find out whether Baker's tale was merely harmless fantasising (he had never even spoken to the girl in question), or whether it was a prelude to an actual physical attack. This is unlikely to happen to most of us, but you could still end up alienating people with careless comments, so be polite.

It's not all doom and gloom, however. People tend to be very helpful on the Net, giving a plethora of answers to any sensible query. If you want to get an answer to a problem that's been troubling you, I can't think of a better resource, but make sure you have tried all possible solutions first, otherwise not only will you be wasting people's time, you will also be wasting that precious bandwidth. In particular, make sure you have read whatever documentation comes with the package, else you

A word of warning

Do: Take your time and re-read your e-mails before sending them out.
Do: Ignore people who are just blowing off hot air and **don't** rise to their bait if they continue to taunt you.
Don't: Send large files without confirming with the recipient that it will be OK to do so.
Don't: Put information that must be kept absolutely secret in e-mail, unless you have some form of Public Key Encryption.
Do: Help to propagate the helpful attitude that exists on Usenet by offering your advice to people who need it.
Do: Read the manuals before asking questions.
Don't: Put your questions into more than two or three newsgroups at most. People get fed up with having to read the same item over and over again.
Do: Be aware that others are reading your news.
Do: Have a good time, but spend as little time as possible on-line so that you can still have a good time in three months when the two-volume BT bill gets delivered in a truck.

Smileys and TLAs

Smileys or emoticons are one way of ensuring that people know how you are feeling when you are typing your ASCII epistle. TLAs are Three Letter Abbreviations (that sometimes have more than three letters) and are a useful shorthand, especially if you are typing online.

:-	Basic smiley	BTW	By The Way
:?)	Big nose smiley	IMHO	In My Humble Opinion
;-)	Wink	IMNSHO	In My Not So Humble Opinion
:-(	Unhappy	L8R	Later
:-P	Raspberry blower	ROFL	Rolls On Floor Laughing
8-)	Speccy smiley	RTFM	Read The F*?@ing Manual
:-*	Kiss	TANSTAAFL	There Ain't No Such Thing As A Free Lunch
:o)	Clown		
:-/	Angry	TTYL	Talk To You Later

Mailing lists

One good way of getting information you want without any extraneous noise is to subscribe to a mailing list. Mailing lists work like a cross between newsgroups and e-mail. You receive e-mail from the list containing articles posted by other people on the list, and when you want to reply or post you address your mail to the mailing list rather than an individual. That way, every one that subscribes to the list will receive your e-mail.

The PageStream user's mailing list
PGS-request@ramiga.cts.com
ADD [your e-mail address]

ami-sci (Scientific/engineering software and related homebrew hardware)
Majordomo@CFHT.Hawaii.edu
subscribe ami-sci

Blitz Basic 2 Programming
blitz-list-request@helsinki.fi
"SUBSCRIBE username@domain"

AMOS
subscribe@xamiga.linet.org
"#amos username@domain;"

CDPub (CDROM publishing and systems) – All platforms
Mail-Server@knex.via.mind.org
"SUBSCRIBE CDPub FirstName LastName"

Commodore-Amiga
subscribe@xamiga.linet.org
"#commodore username@domain;"

could end up with a terse RTFM in response to your question.

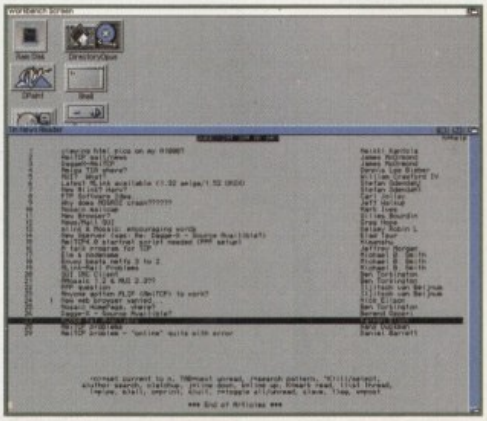
One of the things that really annoys me, but other people seem to take it in their stride, is the net user who can't be bothered to download an Aminet index file. Granted, these files are big (around 400k for the compressed version), but having one enables you to find any piece of software on the Aminet, so it has to be worth the wait.

As a last resort you can stop downloading messages which conform to particular criteria, such as author name or subject. This is done using a kill file, and users of AmiTCP will find they won't even download the offending articles. However, people who are sticking to AmigaNOS will only avoid having to read them – AmigaNOS not being sensible enough to not download them in the first place.

The web doesn't tend to pose too many problems as it is pretty much a passive communication medium, unlike news and mail, but as a general bit of advice, if you are going to be reading the same page for more than about five minutes, you might want to set a ping window going at the same time which will ensure your connection doesn't get timed out for lack of traffic.

In conclusion, as users of the Internet we must remember that we are the first of the many, rather than the few. Whether it stays as it is, which is extremely unlikely, or changes beyond recognition, there will still be a need to keep going what has been started – an ultimate democracy that currently exists, with no barriers for nations, colour, creed, sex or age. And as such, we have a burden to bear. We can make it a replica of today's society in the Western world, with greed and paranoia being our chief motivators, or we can continue to create the nearest thing to a utopia. It's up to us. AC

IRC or Internet Relay Chat using Grapevine. Here you have an on-line forum for the discussion of anything



The heart of flaming territory. Newsgroups can be a source of superb information, or great irritation

CSAA (comp.sys.amiga.announce)
(Product or other)
announce-request@cs.ucdavis.edu

Emplant List
subscribe@xamiga.linet.org
"#emplant username@domain;"

Excelsior! BBS System
subscribe@xamiga.linet.org
"#excelsior username@domain;"

Hyperami – AmigaVision, CanDo, DeluxeVideo, Director, etc.
listserv@archive.oit.unc.edu
"subscribe hyperami"

Imagine – the 3D Rendering package
imagine-request@email.sp.paramax.com
"subscribe" in subject line

Lightwave – Video Toaster and related hardware
1. subscribe@xamiga.linet.org
"#lightwave username@domain;"

2. lightwave-request@bobsbox.rent.com
body: "subscribe lightwave-l
your_id@your_address (your_name)"

lwplugin-l (for lightwave plugin software development info)
listserv@netcom.com
subscribe lwplugin-l

Video Toaster
toaster_request@bobsbox.rent.com
body: "subscribe toaster-l
your_id@your_address (your_name)"

ParNET – Amiga Amiga networking system
parnet-list-request@ben.com
questions to: parnet-list-owner@ben.com

SupraFAX
subscribe@xamiga.linet.org
"#supra username@domain;"

Amiga Misc (bit.listserv.i-amiga)
i-amiga@rutvm1.rutgers.edu

Comp.Sys.Amiga.Hardware
ami-hard%mainecs@cunyvm.cuny.edu

Comp.Sys.Amiga.Tech
ami-tech%mainecs@cunyvm.cuny.edu

EGS Mailing List (The 3rd party RTG system for 24-bit graphic boards)
listserv@darkside.osrhe.edu
body: "SUBSCRIBE EGS "

Piccolo (The 24-bit Graphics Board)
pks-list-request@ben.com

Linux (680x0 channel)
linux-activists@niksula.hut.fi

Amiga SLIP List
amiga-slip-requests@ccs.carleton.ca

Amiga Mosaic
subscribe to: witbrock@cs.cmu.edu

Amiga Mach List
mailserver@lists.funet.fi
"sub amiga-mach firstname lastname"

Amiga X11 Info
mailserver@lists.funet.fi
"sub amiga-x11 firstname lastname"

Amiga GNU C info
mailserver@lists.funet.fi
"sub amiga-gcc-info firstname lastname"

Amiga GNU C Compiler Internals
mailserver@lists.funet.fi
"sub amiga-gcc-port firstname lastname"

Amiga Reviews Request Info
amiga-reviews-requests@math.uh.edu

Aminet Uploads
listserv@wunet.wustl.edu
"SUBSCRIBE aminet-weekly" OR
"SUBSCRIBE aminet-daily"

Amiga Oberon & Modula-2
amiga-m2-request@virginia.edu

NetBSD Port
netbsd-admin@cbmuucp.commodore.com

listserv@gu.uwa.edu.au
"subscribe real3d firstname lastname"

AmiTCP
queries to: amitcp-group@hut.fi

Picasso II Gfx Board
Picasso-Request@Terrapin-Station.umd.edu
"subscribe picasso"

Amiga LISP
amigalisp-request@contessa.phone.net

UMS (Universal Message System)
request@umshq.dfv.rwth-aachen.de

PGP Encryption for Amiga
listserv@peti.gun.de
body: "ADD [your_email_address]
PGPAmiga" or "HELP"

Always remember that when you receive mail from a mailserver, you can't reply to that mail to unsubscribe from the list.

17 Bit Software

EST 1988

POSTAGE INFORMATION
Please Include 50p Postage For UK Disk Orders And 75p Per Item For CD Orders (Max Postage Payable £1.50) Europe Add 10% For Disk Orders & 1.00 Per CD (Max £5.00) R.O.W Add 20% For Disk Orders & £1.50 Per CD (MAX £6.00) All Orders Sent 1st Class Or Air.

1st Floor Offices, 2/8 Market Street
Wakefield, West Yorkshire WF1 1DH
TEL (01924) 366982 FAX (01924) 200943
Monday To Saturday 9.00 am Till 5.30 pm
Answerphone At All Other Times

CALLERS WELCOME!

AMIGA PUBLIC DOMAIN

X3733 ROSES CARDSET
For Klondike AGA
3732 PC TASK V3.1
PC Emulator Upgrade
3731 KINGHIGH
Original Card Game
3730 SPONDULIX MARK V
Shareware Accounts Prog.
3729 PRO LOTTERY
Still Probably Wont Win!
3728 DISK COMPRESSION UTILS
Not For Beginners!
3727 (AB) GRAPEVINE 21
At Last!! The Wait Is Over!
3726 ROBS HOT STASH #37
Full Of Hot Warez! Again!
3725 YET MORE MWB ICONS
Tons Of Em!
3724 INTERNET UTILS 2
More Stash For Netsurfers
X3723 DREAMGIRLS CARDSET
For Klondike AGA
X3722 BIRDS CARDSET
The Feathered Type, For Klondike.
X3721 MAMMALS CARDSET
Another Klondike Set
3720 THE WORLD LEAGUE
NFA Scene Disk Mag
3719 (AB) MAG.E #8
Sci-Fi Disk Mag!
3718 PSYCHEUAL
Alien Breed Clone (ish)
X3717 (ABC) GREENDAY DEMO
HD Only AGA Demo
X3716 (AB) SUN SLIDESHOW
Hand Drawn AGA Pix.
X3715 (AB) DREAMWALKER
Another AGA Demo
X3714 (ABCD) MAN ON THE MOON
HD, 4 Meg Fast, 2 Meg Chip Demo.
3713 MICROMARKET V3
Have A Game On The Stockmarket
3712 (AB) CYBERPUNK NOW #5
More Cyberpunkish Articles
3711 NEWICONS
Archived With NO Installer!
3710 (ABCDEF) PROJECT UFO
Some Interesting Stuff Here!
3709 IMAGE DESK V1.5
Create Thumbnail Pix
3708 VARK 7
More CLI Utils From Vark

3707 VIRUS WORKSHOP 4.8
Most Upto Date Killer Available
3706 JET SET WILLY 3
Superb Conversion!
3705 BATTLE DUEL ECS
Scorched Tanks In Hi-Res.
X3704 BATTLE DUEL AGA
As Above, But AGA Only.
3703 SPRINGTIME
Infuriating Puzzle Game! Superb!
3702 SCORCHED TANKS V1.85
Superb Tank V Tank Classic!
X3701 KYLIE CARDSET
For Klondike 2 & 3
X3700 PLAYBOY CARDSET
Oooer! Klondike 1,2 Or 3 Missus!
X3699 OCEAN CARDSET
Another Set For Klondike 1,2 Or 3
X3698 NBA CARDSET
Klondike 1,2 Or 3
X3697 STEPH SEYMOUR CARDSET
You Guessed! V1,2 or 3
X3696 RECORD COVERS CARDSET
Just For Klondike 2 & 3
3695 SUPER DMS
Version 1.4. Easy To Use.
3694 (AB) BLOX
Licenceware Demo. Puzzle.
3693 RED DWARF QUIZ
Test Your Dwarf I.Q!
3692 LAST LAP V1.0
Shareware Driving Game
3691 TS MORPH V3.2
Superb Morphing Package
X3690 DRAGONS LAIR CARDSET
Klondike 1,2 Or 3
3689 MRBACKUP PRO V2.2.0
HD & SCSI Streamer Backup
X3688 SWAZBLANKER AGA V2.7
Superb AGA Screen Blanker
3687 (AB) DEEP DEMO
Offering From Parallax. Superb!
3686 HYDROCEPHALUS II
Superb Demo By Equinox
3685 MANUAL OVERRIDE DEMO
Great Demo From Subacid.
3684 RESPONSE DEMO
Nice Offering From Avalon.
3683 THE COMPACT CAMERA
A Beginners Tutorial
3682 CAMERA FUNCTIONS
Another Photo Tutorial

3681 GLASSBACK 2
Platforms & Ladders Game
X3680 PSSST AGA
Remember The Old Speccy Classic?
3679 NIGHTMARE B4 XMAS
Klondike Cardset
3678 (AB) IRRESPONSIBLE ART
2 Drives Requires. Hand Drawn Art!
X3677 OMEN DEMO
Nice AGA Demo.
3676 (AB) PAGESTREAM F - G PATCH
Latest Software Patch Update
X3675 (ABC) CARD GAMES DELUXE
All Games Use REKO Cardsets!
3674 (AB) GLOBAL FACTS
Lots Of Interesting Facts..!
3673 ROBS HOT GAMES #14
Another Whopping Collection!
3672 (AB) THIRD DIMENSION #12
3D Cons Kit Users Mag.
3671 DOMINOES
One To Buy For Your Grandad!
X3670 (ABC) BIG GIRLS II AGA
Oooer, Not Called Big For Nothing!
3669 ICON TOOLBOX V2.12
Lots Of Icon Utils!
3668 WORD SEARCH DESIGNER
Design Wordsearches Of Course!
3667 GCSE MATHS EXAM PAPERS
Should REALLY Help With Revision!
3666 AMIGADOS GUIDE V1.5
Amiga Tutorial For WB2+
3665 (AB) CLASS E: LUNAR MODULE
Nice Lunar Lander Variation.
3664 ROBS HOT STASH #36
Another Amazing Utils Disk!
3663 MAGIC SELECTOR V1.6
Change Backdrops Etc On Bootup.
3662 ROBS HOT GAMES #13
More Super Games!
3661 TERMINUS V2.0E
Highly Rated Comms Software
X3660 (AB) TRSI CUBIC DREAM
Very Nice Red Sector Offering.
3659 PROTITLER V2.0
Popular Video Titling Package
3658 DOPUS MAGIC COMPANION
Arexx Scrips & Button Banks Etc.
3657 AMIGAPOINT V2.1
FidoNet Software
3656 FINAL FAX
Fax Interface For F. Writer.

DISK PACKS!

NETSURFER

Contains Everything Possibly Required To Be Able To Surf The Internet Highways With Ease. The 6 Disks Include AmiTCP, Mosaic, GuiFTP, Grapevine, EFF's Guide To The Internet And Many More Usefull Utils. Dont Miss This One For Only £5.99!

U.F.O – THE UNKNOWN

Tired Of Being Fobbed Off With All The Cover Ups? This Pack Will Prove To Be An Eyeopener! The 9 Disks Included Are Packed With Articles Including, Sightings Reports & Abductions Etc. £8.99!

MAGIC OBLIVION

Fed Up With The Dated Look Of Amiga Workbench? These 10 Disks Will Transform Your Otherwise Bland WB Into Oblivion! Superb Icons, Backdrops & Bundles Of Extras Are All Included. Never See That Dreadfull WB Again For Only £9.99!

HOME APPLICATIONS

If Its Word Processing, Spreadsheets Or Databases You're Into, You Will Find These Plus Many More Of The More Popular Home Utils In This 10 Disk Set! IAccounts, Organisers, Address Books You Name It!. Take The LOT For Only £9.99!

SUPERMODELSAGA

If Slim, Stunning Women Are More Your Pass Time, Then Take A Look Here! Pamela Anderson, Claudier Schiffer, Cindy Crawford, & More! Contained On 10 Packed Disks For AGA Machines! £9.99

AMIGA CD ROM'S

HOTTEST 5 £19.99
PD Softs Latest CD Offering Is Supplied With A Printed Booklet That Describes Its Entire Contents.

TEXTURE GALLERY £39.99
A 2 CD Set Containing Over 1.3GB Of Textures In Several Formats For Use With Most 3D Packages. Thumbnail Images Supplied Too.

SPECCY SENSATIONS £14.99
Full Of Nostalgic Speccy Games Complete With Emulators For Both Amiga & PC!

AMINET 5!! March 1995 £14.99
This Release Contains Over 440MB Of NEW Data Including Over 1000 Games! Since No. 4!

THE LIGHT ROM II £39.99
100% Lightwave / Toaster Material That Includes Over 300MB Of Data Not Included On The Light Rom!

AMINET SET [4 CD's] £29.99
Aminets 1 to 4, Recompiled With NO Duplication! This Set Even Includes NEW Aminet DATA!

ANIMATION CD [Double] £19.99
2 CD's Containing A Plethora Of Superb Amiga Animations. Even Includes Converted PC Anims!

3D ARENA £24.99
Imagine, Lightwave & Real 3D Objects Galore From The 24 Bit Club In Scotland!

MORE CD'S!

17 BIT COLLECTION 1700 Of Our Disks From 1 To 2300	£29.99
17 BIT CONTINUATION More Library Disks From 2301 To 2800!	£14.99
17 BIT PHASE 4 Latest Library Release From 2801 To 3351	£19.99
AMOS PD CD Invaluable For Amos Users. Source Code Etc.	£19.99
AMINET 4 CD November 1994 Aminet Intenet Archive.	£14.99
ASSASSINS CD Excellent Games Collection Runs From CD!	£19.99
BCI NET December 1994 Aminet Internet Archives!	£14.99
B.C CLIPART & FONTS Mainly In EPS Format	£ 9.99
CDPD 1 Fred Fish From 1 To 660	£ 9.99
CDPD 2 Fred Fish From 661 To 760 & More.	£ 9.99
CDPD 3 Fred Fish From 761 To 890 & More.	£ 9.99
CDPD 4 Fred Fish From 891 To 1000, C++ Archives & Much More!	£14.99
DEMO CD Older Amiga Demos For Collectors	£ 9.99
DEMO CD II A Little More Up To Date, But Still Only For Collectors	£14.99
DESK TOP VIDEO Superb DTP CD Includes Fonts, Clips, Pix Etc!	£14.99
EUROSCENE Most Upto Date Demo Collection From Europe	£14.99
GIFS GALORE CD 5000 GIF Pictures From Over 40 Categories	£19.99
GOLDFISH CD Fred Fish 1 To 1000 Archived AND Ready To Run	£29.99
GOLDFISH 2 Another Double CD Containing Everthing After F 1000.	£29.99
HOTTEST 4 PD SOFTS Latest Library CD	£19.99
ILLUSIONS IN 3D Full Of RDS Images & Utilities!	£ 9.99
IMAGINE CD Top Notch Collection Of Objects, Backgrounds Etc.	£39.99
IMAGINE ENHANCER Objects, Maps, Fonts Etc. Pro Level.	£49.99
LSD COMPENDIUM LSD Legal Tools To 151, Anims, Games Etc.	£19.99
LSD COMPENDIUM II Improved Menu, More Superb Utils Etc.	£19.99
NETWORK CD Connect CD32 To Any Other Amiga (Requires Cable)	£14.99
NETWORK CABLE Adapted Sernet Cable For Use With Above	£19.99
POWER GAMES Over 500 Top Quality Public Domain Games	£14.99
PRO FONTS CD Adobe, CG Fonts & Stacks Of Clipart	£19.99
RAYTRACING VOL 1 Excellent Collection Of Goodies For Imagine	£14.99
RAYTRACING VOL 2 More Imagine Stuff, Award Winning CD!	£14.99
SPACE & ASTRONOMY 1000 GIFS & 5000 Nasa Texts About Space.	£19.99
SOUNDS TERRIFIC Double CD Containing Thousands of Mods Etc!	£19.99
THE LIGHT ROM Highly Reccomended Objects CD For Lightwave	£39.99
THE LIGHT WORKS Superb Imagine, Cinema 4D Obs & Textures Etc	£39.99
TOWN OF TUNES 1000 Hand Selected Music Mods With Players Etc.	£19.99
ULTIMEDIA VOL 1 Textures, Sounds Pictures Etc For Multimedia.	£14.99
ULTIMEDIA VOL 2 More Multimedia Accessories & Resources	£14.99
WEIRD SCIENCE FONTS CG, IFF, PCX, ADOBE Etc	£ 9.99
WEIRD SCIENCE CLIPART EPS, IMG, IFF, Pagesetter Etc	£ 9.99

CD ROM PRICE MATCH

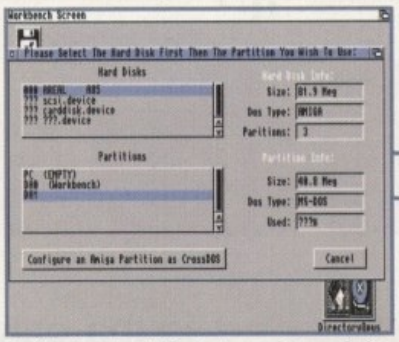
WE WILL DO OUR BEST TO MATCH OR EVEN BEAT ANY CD ADVERTISED ELSEWHERE. ALL ORDERS SENT

SAME DAY 1st CLASS POST

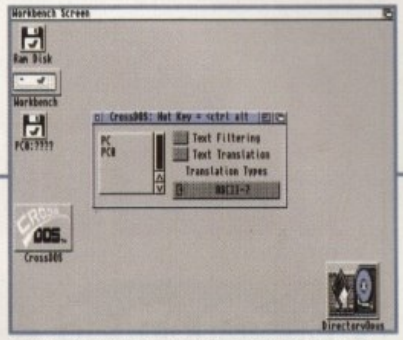
THE FINAL FRONTIER
DISKZINE

ISSUE 8 NOW IN STOCK

£6.95



Configuring a hard drive to share with your Amiga and PC is as easy as pointing and clicking your mouse thanks to this utility



The Amiga and PC handle text files in radically different ways. This utility automatically converts between the two types when copying

Between you and me

Transfer files between the Amiga and PC with ease, courtesy of CrossDOS Professional. Darren Evans puts it to the test

The ability to transfer files between an Amiga and different computers has become more and more useful these days. No doubt many of you have seen that obscure CrossDOS device driver lurking in the Storage drawer. No doubt many of you have never had the need to activate it.

For those who are in the latter category, this rather neat driver, once placed in the Devs drawer (or merely double-clicked), allows your Amiga to read, write and format standard MS-DOS floppy disks. This is obviously great news for Amiga owners who have access to, or work with PCs as they can now transfer their work to their Amiga.

I use this transfer feature a lot for the animation and graphics work I do between the two machines. Unfortunately, the CrossDOS driver supplied with Workbench is only set up to work with floppy disks and even with 1.4Mb floppy drives, many users will no doubt have to use multiple disks and archiving utilities for large amounts of data.

For instance, animation and graphics files tend to lean towards the extremely large side. Imagine trying to transfer a 15 second animation consisting of 450 individual 24-bit Targa files to a PC for a spot of editing with Premier 4 or Photoshop 3. Now that's a lot of megabytes to transfer via floppy disk, and it usually ends up being a long and tedious archiving session.

If only there was some way to tell the Amiga to use an MS-DOS formatted hard drive as easily as it uses the floppy disks. You could then transfer lots of files, with no need to archive or swap disks whatsoever.

Now, thanks to CrossDOS Professional and those jolly nice people at HiSoft, this process is a breeze. The developers of CrossDOS Professional – Consultron – are, unsurprisingly, the same people who are responsible for the Workbench version. However, the CrossDOS Pro version offers much faster disk writes and reads, as well as a host of support utilities.

Once installed, CrossDOS Pro works as transparently with hard drives as Workbench's CrossDOS does with floppy drives. This transparent operation is due to the fact that CrossDOS is basically the MS-DOS file system which is seamlessly integrated into AmigaDOS.

The actual installation procedure is remarkably simple, with no lengthy setup procedures in sight. Running the install program brings up the standard Commodore install utility with the options of installing CrossDOS, which copies all the relevant library and device drivers to the appropriate drawers, Configure Hard Disk, which will automatically run the hard disk configure utility if you happen to have a suitable hard drive already connected and, surprisingly and infinitely welcome, an Uninstall option. All Amiga software developers take note. Once finished, PC floppy disks, and any MS-DOS formatted hard drives that are connected, will be automatically available on Workbench.

OPTIONS

The hard disk configuration option in the install menu starts up the hard disk configure utility which is also accessible as a standalone program on the CrossDOS installation disk. The utility has three different methods for creating an MS-DOS hard drive. You have the option of creating a 'real' drive or choosing between two simulated drives.

A real drive is simply one that is entirely formatted as an MS-DOS drive, either by a PC or by CrossDOS itself. A simulated drive can be a partition on an existing Amiga drive which can thus have a partition that is assigned the CrossDOS file system, with other partitions being standard AmigaDOS file systems.

The other simulated drive-type consists of the image of the drive stored as a file. This type is useful if you only plan to share it as a boot partition for products such as CrossPC, PC-Task, Bridgeboard, AtOnce or GoldenGate PC emulators. Such a flexible feature should mean that most users seeking PC compatibility will find the most appropriate setup for their needs.

The actual configuration process amounts to simple clicks of the mouse. All you do is select the respective button for the drive type, then choose the drive device which is to be configured, and then choose which partitions, if more than one, to process. Clicking on the configure button then instantly turns your device into an MS-DOS format drive, creating the mount file automatically and placing it in the Devs drawer. If only life were so simple? AC

What's in a name?

The only drawback to PC file transfers via CrossDOS is that you must keep a check on filename lengths. PC filename convention limits names to a maximum of eight characters with a three character file type extension.

The Amiga can handle longer filenames and these will be brutally chopped to the eight character limit, causing all manner of potential problems without so much of a by your leave. I must stress that this is an MS-DOS problem and not a fault of CrossDOS.

SYSTEM ESSENTIALS

RED = Essential **BLACK** = Recommended

Workbench 2 or higher

Hard drive

The bottom line

Product: CrossDOS Professional
Price: £49.95
Supplier: HiSoft
Tel: 01525 718181

Ease of use	**8**
Implementation	**9**
Value for money	**8**
Overall	**9**

Subscribe to the top value

Subscribing to **Amiga Computing** is the only way to ensure your invaluable Amiga guide each and every month, as well as reaping a whole host of benefits linked with our latest subscription offer.

Save money and receive a gift!

Your subscription saves you over 13% on the cover price and safeguards you against any future cover price rises. You also have the choice of one of these great gifts, which we'll send you as soon as you return the subscription form.

Save over £30

UFO

Microprose's huge strategy game, UFO, puts you in the hot seat as the world comes under attack by an alien invasion. ● Add £3 to the price of subscription.

Save £29.99

K240

Gremlin's outer space strategy game gives you control over a whole galaxy of mining planets, where you can create and destroy worlds at the touch of a button.

Save £34.99

Amiga Next Steps & Amiga A1200 Insider Guide books

Save over £29

A special two-book package including the essential Next Steps guide for all users who have mastered the basics, plus the definitive guide to Workbench and AmigaDOS on the A1200, packed with expert tutorials.

Heimdall II

The follow-up to the classic Viking adventure from Core Design takes you again into Nordic landscape in this arcade adventure and can be yours, absolutely free, when you subscribe.

Two extra issues plus a smart *Amiga Computing* magazine binder

Save £15.93

guide for your Amiga!

The worry free solution

Taking out a subscription means you no longer have to make that monthly dash down to the newsagents, only to find you've missed the last copy of **Amiga Computing.** Each issue is reserved especially for you and delivered to you door, free of charge.

The easy option

Subscribing is made even easier by continuous quarterly direct debit. Not only can you forget about the subscription ever lapsing and the thought of missing an issue, but you can also spread the cost with a small payment each quarter.

SUBSCRIPTION HOTLINE
for card orders
Tel: 051-357 1275 **Fax:** 051-357 2813

Amiga Computing subscription order form

Choose either a yearly (13 issues) or a quarterly subscription

● I would like the following yearly subscription:

New	Renewal			
☐ 9665	☐ 9668	UK	£44.99
☐ 9666	☐ 9669	EU	£69.99
☐ 9667	☐ 9670	World	£84.99
☐	☐	Canada/USA *	$98

● I wish to pay by:

☐ Cheque/Eurocheque/Postal Order payable to IDG Media

☐ Credit Card (Visa/Access/Barclaycard/Mastercard/Eurocard/Connect) Expiry Date ☐☐/☐☐

Card No ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐

● *Tick which free gift/special offer you want (not available to world subscribers)*

9576 ☐ Two free issues and a magazine binder
9596 ☐ K240
9598 ☐ Amiga Next Steps & Amiga 1200 Insider Guide Books
9600 ☐ Heimdall II
9597 ☐ UFO *(Add £3 to the cost of your subscription)*

If you are paying by direct debit please pay additional amounts by cheque or credit card.

* *Canada & USA subscribers send to: Europress (North America), Unit 14, Bysham Drive, Woodstock, Ontario, NT4 1P1, Canada. Tel: 519-539-0200, Fax: 519-539-9725*

☐ *Tick this box if you do not wish to receive promotional material from other companies*

● I would like a UK quarterly direct debit ongoing subscription
9671 ☐ £10.99 per quarter (Complete the form below)

Quarterly Direct Debit Instruction

AUTHORITY TO YOUR BANK/BUILDING SOCIETY TO PAY DIRECT DEBITS

Name of bank/building society .....

Address .....

.....

.....

.....Postcode .....

Name of account .....

Your account no. ☐☐☐☐☐☐☐☐

Sort code ☐☐ ☐☐ ☐☐

Signature(s) .....

Date .....

FOR OFFICE USE ONLY
Originator's Identification No. 8 5 1 4 1 2
Ref No. .....

Your instructions to the bank/building society:

I instruct you to pay Direct Debits from my account at the request of IDG Media. The amounts are variable and may be debited on various dates.
No acknowledgement required.
I understand that IDG Media may change the amounts and dates only after giving me prior notice.
I will inform the bank/building society in writing if I wish to cancel this instruction.
I understand that if any Direct Debit is paid which breaks the terms of the instruction, the bank/ building society will make a refund.

Bank/building society may decline to accept instructions to pay Direct Debit from some types of accounts.

● Deliver my magazine to:

Name (Mr/Mrs/Miss/Ms) _____

Address _____

_____

Postcode _____ Daytime phone no _____

Send this form to: *Database Direct, FREEPOST, South Wirral L65 3EB.* *(No stamp needed if posted in UK.)*
Your subscription will commence from the earliest possible issue

A singular

As the industry behind interactive entertainment matures, game design is undertaken increasingly by professional development teams. But, as Gareth Lofthouse discovered, the individual enthusiast can still make a mark

Making a game in 1995 is a tough business. Back in the '80s the classic game releases were conceived by teenagers and brought to life on the cheapest, most popular home computers of the day. But the time when game design was the preserve of the spotty bedroom programmer is gone forever; in the '90s the suits have moved in on game development and a vast money-spinning industry has been well and truly established.

As the technical standards of game design have increased to the point where the latest releases boast film-like production values, it's not surprising that the amateur has been pushed aside and replaced by professional development teams. Interactive multimedia, fast-paced texture-mapped graphics and cinematic sequences are the order of the day, and such hi-tech projects can require teams of artists, programmers and sound specialists working on costly workstations. Small wonder if the average Amiga enthusiast feels outclassed and shut out.

MAKING A HIT

Yet against all odds, there are amateurs who dream of making a name for themselves with a hit game. In bedsits dotted around the nation, there are still people who will spend every moment of their spare time plugging away on that most affordable home computer, the good old Amiga.

It would be natural to assume their efforts are doomed to failure, or that at best these naive enthusiasts will get some brief fame on the PD circuit. Is it possible, then, that potentially the biggest game of the year could have been made by one single man?

The tactical multiplayer game, Worms, is due to be released by Team 17 in September. Originating from PD titles like Scorched Tanks, it has simple two dimensional graphics that set it a million miles away from the latest multimedia extravaganzas – and it looks set to take the game playing world by storm.

Though Team 17 are publishing the game, it's entirely the work of 22-year old Andy Davidson. Developed over a period of four years, the story of its success is proof that the bedroom coder can still take on the professionals at their own game. Davidson is a typically self-taught computer enthusiast who started programming games purely for his own pleasure in the hay day of the ZX Spectrum. It wasn't until he'd bought an Amiga and started coding Worms that he even considered trying to sell one of his games commercially.

Limbo of the Lost Souls was created entirely by three self-taught enthusiasts

During its development he was running a shop in Bournemouth selling Amigas, a job which proved helpful when it came to playtesting and gaining suggestions from customers regarding the game. However, he only really raised his ambitions for Worms when he heard that Amiga Format were running a competition for readers' games.

Amazingly, though Davidson got an impressive version of the game ready for the competition deadline, Format overlooked this gem – in fact, Davidson heard nothing more about the competition and had to find out for himself that Worms had been rejected. Team 17 obviously thought this was an error of judgement, so it'll be interesting to see how Format rate the game when it appears commercially.

Fortunately, this setback didn't mark the end of Worms, though it was quite a close call. 'I was getting a bit fed up,' Davidson told us, 'so the ECTS in September (1994) was going to be my last attempt to get it published.' His first choice was Team 17 who, to his surprise, immediately realised they had a classic in the making; after turning up at their stand and showing them Worms for just five minutes, Team 17's Creative Director, Martyn Brown, asked him if he'd like them to publish it.

The astounding way in which Worms has snowballed from its humble beginnings is hard to believe, particularly for Davidson himself. Asked if Worms is going to make him rich he said: 'It's very difficult to comprehend. When I went to Team 17 I was just thinking of selling Worms as an Amiga budget game.' Instead, Worms is going to be released as a full-priced game across an incredible 16 platforms, and Davidson stands to gain royalties from sales of each of the game's versions.

Even more encouraging for the individual enthusiast is that Davidson believes amateur programmers can compete against the visually glossy productions produced by major companies, providing they concentrate on gameplay. Criticising multimedia and games featuring rendered animations, he said, 'I haven't seen one of those type of games that

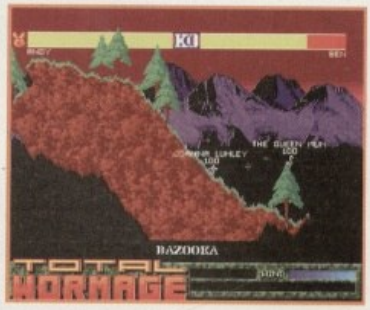
Worms – Team 17's big hope for 1995, and the game Amiga Format passed over

Protecting your ideas

Ensuring that the copyright on a game is kept safely in the designers' hands is an issue that naturally raises concern with game makers. The fear that unscrupulous publishers will steal a good idea and claim it for their own is enough to make any programmer nervous.

Fortunately, protecting yourself legally is a simple procedure according to the game makers we spoke to. Tri-Logic, for example, were advised by their solicitor that posting a copy of the game to themselves is a perfectly good way of registering copyright. Thankfully, this method has the added advantage of being virtually free.

r success



Visually simple, Worms' strength lies in gameplay that will leave many more glamorous releases standing

Andy Davidson will earn royalties from the sale of his game across 16 platforms

> Amateur programmers can compete against the visually glossy productions produced by major companies, providing they concentrate on gameplay

I want to play. The game itself is the essential thing. I've been playing Worms for nearly one and a half years and I still enjoy it. '

'If Worms relied on just rendered graphics it would never have the depth it has now. No two Worms games will ever be the same, but with rendered games you'll never get that much variety.'

The story behind Worms is an example of the importance of believing in your own ideas. Asked about advice for people working on their own game projects, Davidson said: 'You can't imagine how people will respond seeing a game for the first time. But if *you* believe in it you can find someone else who believes in it.'

Worms, however, isn't the only potential hit to have been brought to Team 17 by an outside individual. Throughout the company's history people have turned up on their doorstep with ideas, and in some cases Team 17 have been only too happy to pay them a salary and help them turn a game concept into a commercial reality.

Of course, many of the best ideas would never see the light of day without the helping hand of luck, and this is as true of game design as anything else. Team 17's latest project developed by a single enthusiast is Alien Breed 3D, a high profile release that only came into being because of a chance meeting on the Internet. Andy Clitheroe is a student at York University who had written a game engine for the Amiga in his spare time. Originally, it consisted of a 3D maze run-around – it was fast and slick, but a million miles away from being a game, let alone the first class Doom clone that Breed 3D promises to be.

Fortunately for Clitheroe, he happened to meet Martyn Brown on the 'net. Having mentioned the game engine, he was invited to show his work to Team 17, and when they'd been suitably impressed they offered him a deal and encouraged him to bring Breed 3D to fruition. Clithero is currently working on the finishing touches in between revising for end of year exams.

Those who are hoping to sell a game concept, however, would be fools to rely on this type of good fortune. Optimising a game's chance of being published in most cases boils down to a lot of hard work, persistence, and enough self-confidence to accept the odd knock-back.

Tri-logic's Limbo of the Lost Souls, previewed in this month's System, is possibly the best example of how to sell a game to a publisher. The brainchild of three adventure enthusiasts,

L J Laurence, T J Croucher and S Bovis, three adventure enthusiasts who set up Tri-Logic

Limbo may have started as an idea cooked up over a few pub drinking sessions, but they quickly realised that encouraging interest from publishers would require a more professional approach.

Limbo's programmer, Steve Bovis, told us how they knew they had a good product to sell, but they had to find novel marketing ploys to get it noticed. Consequently, they set about making a video using an A500+, Deluxe Video and a genlock, and despite its relative cheapness it seems to have paid off. Previously, Tri-logic had met with rejection, but Limbo's publishers, Rasputin, were so impressed by the new video they decided to give the game their full backing.

There can be no doubting the trio's commitment to seeing Limbo through. Over the six years of development, each member of the team has held down a day job and earned money which often got invested back into the project. Having been through the experience, Bovis pointed to this single-mindedness as the key to success for the game designer, and warned: 'Lose enthusiasm in the project and it's as good as finished.'

If only one lesson can be gathered from these varied experiences, it's that the industry needs a powerful but inexpensive machine like the Amiga to allow talent to come to the fore. Andy Davidson was particularly impassioned on this point: 'Worms could only have started on the Amiga – that's the only way you can turn an idea into a game. If the Amiga dies a hell of a lot of games are never going to come out which otherwise would.' Clearly a lot depends on the survival of our machine.

(01903) 850378 SEASOFT

VISA MasterCard Access

A1200 ONLY

2059 ASI FIX DISK 3 (1)
More excellent degraders
1885 AGA UTILITIES (3)
Rend24, PPShow, Viewtek, BBlank, ForceVGA. DoubleX, Plasma, Icon Illusion, Quick Grab, Ham8-JPeg, Clouds etc.
1619 A1200 HD SET UP (1)
A1200 HD prep disk
2071 ANALYSER (1)
Have a problem with your A1200?
2064 ANHALONIUM LEWINI (1)
Excellent AGA demo "95 party"
2060 AURAL ASSAULT (2)
Excellent Demo by Vanity
1358 BIG GIRLS (X) (1)
1732 BODY SHOP 8 (X) (3)
Page 3 style pictures
2055 BLUE AGA DEMO (1)
Demo from Intercepters "95 party"
1834 BREATHTAKING DEMO (5)
Megademo needs 4 megs/HD
1875 C CRAWFORD (X) (3)
1881 CLAUDIA SCHIFFER (X) (3)
Excellent pictures of top models
2076 CUBIC DREAM (2)
Excellent demo from TRSI
1725 DONKEY KONG (1)
Classic Platform game
1879 ELLE MCPHERSON (X) (3)
1756 EVIL INSECTS (1)
Stunning puzzle – shoot 'em up
1802 FRIDAY AT EIGHT DEMO (1)
Aga demo from Polka Bros
1340 FULL MOON (1)
Aga demo from Fairlight
2062 IMPOSSIBLE POSSIBILITY (2)
Another stunning demo from Mystic
1819 ILYAD DEMO (4)
Stunning graphics (Need HD/3meg)
2073 ITCHY & SCRATCHY (X) (1)
For all those Simpson fans
1970 KILLING TIME DEMO (4)
Spectacular AGA Demo
1772 LOTTERY WINNER (1)
Will it help you win a Million?
1775 MAX OVERDRIVE 2 (3)
Breathtaking AGA Demo
1344 MAGIC WORKBENCH (1)
Jazz up your WB - needs HD
1936 MAGIC WB EXTRAS (2)
1813 MINI AGA SLIDESHOW 2 (4)
Excellent Raytraced pictures

1655 MISSILES OVER XENON (2)
AGA "Missile Command" game
1754 MAMMA WAS A VAMPIRE (2)
A variety of excellent effects
1711 MONOPOLY (1)
English version board game
2006 MOTION DEMO (2)
Another Party 94 Winner
1811 MOVIEGUIDE AGA (2)
Learn all about the movies!
1941 NEXUS 7 DEMO (1)
Stunning Demo
2066 ODE TO RAMON 3 (3)
Latest offering from Team Hoi
1938 VIRTUAL DREAMS (3)
Psychedelic Demo - a must for Demo fans (needs HD LHA format)
1395 RAY WORLD (3)
Out of this world!
1798 ROKETZ V2 (1)
Excellent gravity/thrust game
1969 ROOTS DEMO (1)
Blow your mind with this Demo
1805 SHARD ART (2)
Excellent Ferrari pictures
1910 AGA SPECTRUM EMULATOR (2)
Latest emulator with 23 games
1912 SPECTRUM GAMES (4)
Packed with old Speccy games
1714 SOME JUSTICE 94 (3Meg)(1)
Excellent sound track Demo
1978 SOME JUSTICE 94 (3Meg)(1)
Fixed version for A4000 owners
1865 SOUL KITCHEN DEMO (2)
Brilliant Demo from Silents
1752 SWITCHBACK DEMO (2)
Excellent AGA demo form Rebels
1793 TOOTHBRUSH DEMO (2)
Watch that toothbrush
2004 THE PREY DEMO (2)
Stunning Demo from Polka Bros
1974 TWISTED DEMO (4)
Out of theis world (Needs Fast Ram)
1839 VIDEO TRACKER EXTRAS (4)
Help with your Demo making
1867 THE WEATHER GUIDE (3)
Full of interesting information
1514 TUTANKHAMUN (2)
AGA Slideshow of the treasures
1757 WIT PREMIUM DEMO (1)
Stunning Demo from Freezers
2074 WOMAN OF MANGA (2)
Excellent Manga drawings
1797 ZOOTJE DEMO (1)
Weird – Beavis & Buthea

AGA KLONDIKE CARD SETS

SPECIAL OFFER – BUY 10 DISKS FOR ONLY £8.00

1791 BETTY PAGE (X) (1)
1640 CINDY CRAWFORD (X) (1)
1760 DUNGEONS/DRAGONS (1)
1790 DR WHO (1)
1715 ELLE MCPHERSON (X) (1)
1985 ELLE MCPHERSON 2 (X) (1)
1849 EMPIRE STRIKES BACK (1)
1858 FACES 2 (1)
1762 FAST CARS (1)
1981 FLOWERS (1)
1862 HAJIME (FANTASY) (1)
1982 LION KING (1)
1854 MARILYN MONROE (X) (1)
1984 PHOTO CD (1)
1864 PERIMELLON (1)
1986 PRETTY WOMAN (1)
1852 RANMA (MANGA) (1)
1852 RETURN OF THE JEDI (1)
1984 RIPPIN YARNS (1)
1851 SAILORMOON (1)
1642 SANDMAN (FUTURIST) (1)
1980 SHERILYN FENN (X) (1)
1718 STAR TREK OLD (1)
1764 STAR TREK NEW (1)
1853 STAR WARS (1)
1765 SWIMSUITS (X) (1)
1857 TRADITIONAL (1)
1763 X-MEN (1)

AMIGA PD & SHAREWARE

GENERAL UTILITIES

1766 ACCOUNTS MASTER 3# (1)
Excellent Accounts package
1786 COMPUGRAPHIC FONTS (4)
Vols 17 to 20 of excellent fonts
1310 COPPIERS UNLIMITED (1) #
Excellent collection of coppiers
1916 CRUNCHMANIA # (2)
Various utilities
2037 DPAINT BUDDY (2)
Help system for DPaint
1647 FINAL WRAPPER # (1)
Final Writer Macros
1997 FINAL WRITER PATCH (1)
Speed up FW by up to 400%
2009 HARD DRIVE UTILS # (2)
Aback Up, Fix Disk, VC, Click Dos 2, ReOrg, Tools Daemon, Vr Back Up etc.
1918 HD GAMES 2 INSTALLER (1)
Install many games on to your HD including Mortal Kombat etc.
1626 ICON EDITOR V4 (1)
Excellent Shareware Icon Editor
2003 IMAGE STUDIO V2 # (2)
Latest Shareware version - Image processor and conversion package
1778 IMAGINE BUDDY (2)
A must for all Imagine users
1951 IMAGINE OBJECTS (3)
Excellent Starwars objects
1954 IMAGINE OBJECTS (1)
Babylon 5 objects
1719 LION KING CLIPART (3)
IFF Colour clipart from Disney
1769 MENY MENU SYSTEM # (1)
Menu system used on TI, AMFM etc.
788 MESSY SID 2 (1)
Amiga > PC File converter
1999 MORSE CODE TUTOR (1)
Excellent training program
1919 MSDOS > AMIGA DOS 2.3 (1)
Adds Msdos commands to the Amiga
1261 N COMM V3 (1)
Modem package
2045 NEXT GENERATION WB (2)
Changes WB backgrounds etc.
1987 PAGESTREAM 3F UPDATE (2)
2035 PAGESTREAM 3G UPDATE (2)
1318 PRINTER DRIVERS (1)
Canon BJ; HP Deskjet; Ricoh LP1200
1998 R.A.E. TUTOR (1)
A must for amateur radio enthusiasts
2051 RELOKICK V1.41 # (1)
(Kick V1.4) run those old programs
1768 SID PROF V2.01a # (1)
The very latest version
1770 SNOOPDOS V3 # (1)
2053 TERM V4.2 (3)
Latest version in archived form
1305 TEXT ENGINE V4.1 (1)
Text Editor/Word processor
1833 THE DESIGNER # (1)
A GUI creator
2052 VIRUS CHECKER V6.52 (1)
The latest and best virus checker
2011 VISION & SOUND # (3)
PPMore, PPShow, PPAnim etc.

NEW TITLES ARRIVE DAILY – THOUSANDS AVAILABLE
PLEASE GIVE US A CALL IF YOU CAN'T SEE WHAT YOU WANT

ONLY £1.00 PER DISK FOR 5 OR MORE

1 disk - £1.50, 2 to 4 disks - £1.25, 5 to 19 disks - £1.00, 20+ disks - 90p

Number of disks shown in brackets
Titles marked # will not work on A500 (V1.2/V1.3)
Titles marked (X) are suitable for over 16s only

SPECIAL VALUE PD PACKS

IMAGINE OBJECTS
16 Disks packed full of quality Imagine objects covering many subjects.
£12.00

SAMPLES PACK
10 disks packed with quality Samples for your favourite Music package
£8.00
(State IFF or Raw)

GLAMOUR PACK
16 disks packed with AGA beauties from the famous Body Shop collection
£12.00
(A1200 only – not suitable for anyone under 16)

CG FONTS PACK
Over 180 Compugraphic fonts (16 disks) for WB2 & 3, Wordworth 2+, Page Setter 3 etc.
£12.00

OctaMED MODS
Hundreds of modules from the Med Users Group members collection
10 disks per pack, 6 packs currently available
£8.00 per pack

OFFICE PACK
5 essential tools for the small office – Word Processor, Database, Spreadsheet, Forms Designer & Accounts
£4.50

OctaMED 4
Full version of this A500 compatible music program, disk based manual and lots of samples & modules to get you started
6 disks for £5.00

SAMPLE ILLUSIONS
A collection of unique sounds created with the Aural Illusion sample processing package and saved as 8-bit IFF samples
6 disks for £5.00

BITS & PIECES
450 files of various clips, drum loops etc. in Music-X (10 disks), Amiga MIDI (9 disks) and PC MIDI (9 disks) formats
£8.00
(Please state format required)

MUSIC UTILITIES

1706 AUDIO MAGIC 8 # (1)
FM Synth, Midi Packet Master, OctaMED Player, X Module etc.
1996 AUDIO MAGIC 12 # (1)
Sound Machine, Sonic Drum Kit, Play 16, CD-DA
1767 DROP IN THE OCEAN (1)
Demo of all Midicraft products
1921 EAGLE PLAYER V1.54 (1)
Multi format music player (LHA format)
1462 MIDI TUTORIAL (1)
Problems with MIDI - Help is here
1989 MIDI UTILITIES VOL 1 (1)
1990 MIDI UTILITIES VOL 2 (2)
Loads of useful Midi utilities
1991 MUSIC X UTILITIES VOL 1 (2)
Packed with Music X Utilities
1993 MUSIC X UTILITIES VOL 2 (3)
Various Synths Protocols, Voice/Patch/Wave libraries
2024 PROTRACKER V3.15 (1)
Latest version of this popular tracker
1855 X BEAT PRO III (1)
The very latest Drum Machine

OCTAMED V5/V6 MODULES

2027 CMS TRAX VOL 1 (1)
2028 CMS TRAX VOL 2 (1)
2029 EVOLUTION (2)
Mods by I. Chisholm & M. Donaghie
1925 FADE TO GREY (2)
1659 FRIENDS OF PAULA 6 (1)
1927 HARMONIOUSLY DIFFERENT (1)
1928 MUSIC FIRST BLUES (1)
1661 ROBS ROCKERS (2)
2031 THE THIN LINE (1)
Rock Module by Nemesis
1922 TALK TALK VOL 1 (1.5M) (1)
1923 WHAT CAN YOU DO FOR ME (2)

We also stock the entire range of Med User Group Samples and Mods

LOADS OF OTHER MODULES FOR PROTRACKER ETC. AND THOUSANDS OF IFF/RAW SAMPLES ALSO AVAILABLE

2014 THE GATHERING 94 (10)
Various Modules from The Gathering 94 Party (LHA format)
2025 SPOON – SOUND 3 (2)
No chip all sound modules
2039 URBAN SHAKEDOWN (6)
Packed with quality samples

GAMES & EDUCATION

1 831 APOLLO 11 (2)
Text book about Apollo mission
1527 BACK TO SCHOOL 1-3 (3)
Educational games for kids
2058 BARTENDER (1)
Excellent drinks database
2033 CRICKET 2 (1)
Excellent Cricket Sim
946 DINOSAURS VOL 1 (1)
Text book all about Dinosaurs
1829 DUMMIES GUIDE TO COMMS AND INTERNET (2)
A very helpful guide to the net
2034 F1 GRAND PRIX 95 EDITOR (1)
Editor for Commercial game
1522 GCSE MATHS # (1)
Helps with your studies
2056 HISTORY TIMETABLE (1)
World history book
1510 KIDS 1-3 (4)
Excellent educational programs
1827 KIDS DISK 5 (1)
3 educ. programs maths/letters
1828 KIDS DISK 6 (1)
Help Mum with the shopping!
2048 IMAGES OF VENUS (1) #
Various B&W pics of Venus
2047 LISTEN WITH MOTHER (1) #
Hear all your old favourites
2072 LOTTERY WINNER (1)
Try your luck with with this Lottery Program
2057 MONOPOLY (1)
Popular Board Game
2008 NIGHT MATHS ATTACK (1)
Excellent Maths program for kids
1843 PARANORMAL INVESTIGATIONS # (2) - Learn all about UFOs etc.
2000 SPACE TRAVEL (2)
Text Book about Space Travel
1780 UNKNOWN UFO (6)
Full information about UFOs
2032 VISIT TO MARS (1)
Various colour pics of Mars
1526 WORD FACTORY (1)
Spelling game for young kids
1607 WORLD MAPS COLOUR CLIP ART A-Z (9)
IFF pictures for DPaint V4/V5

ASSASSINS GAMES

We stock the complete range of Assassins Games (1-232)
SPECIAL OFFER – BUY 10 DISKS FOR ONLY £8.00 (Not A500)

ASI216 Bomber 2000, Black Dawn 94, Dice
ASI219 Chopper Attack, Route 66, Gimme 5
ASI220 Dr Strange, Alien Frenzy, I-Worm
ASI221 Hot Air, Brazza n Runt, Pots of Fun
ASI222 ESP, Loop N Loop, Poing II
ASI223 Laser Bikes, Operation Desert Storm, Poker Solitaire, Maze
ASI224 Square Stones, Top Hat Willy, Star Buster
ASI225 Steel Devils, Xenostar, Back Gammon
ASI226 Jumping Jack, Technoball, Zillo
ASI228 Zaxxon, Blimey, Mine Runner
ASI229 Knights, Xap Demo, Kill the Little Dudes.
ASI230 Nano Fly, Denver Duk, Insecticide.
ASI231 Rubber, Card Games, Triclops
ASI232 Demons Beach, Bubble Trouble, Hack Game

CLR LICENCEWARE

WE STOCK THE COMPLETE RANGE OF CLR TITLES

CLU 06 SUPERSOUND V4.7 (£3.95)
Brilliant sampling package
CLG 25 WHITE RABBITS (£3.95)
Highly original puzzle game
CLG 62 TOADO (£3.95)
Classic "Frogger" Game
CLE59 TOUR THROUGH TIME (£5.95)
From the Prehistoric to Space Age
CLU32 POWER TEXT 2 (£3.95)
Word Processor & Spell Checker
CLG 65 WEAPONS MASTER (£3.95)
Impressive Street Fighter clone
CLE 65 JUNIOR MATHS (£3.95)
Pre-Early school fun Maths tutor
CLE 66 BASIC NOTE TUTOR (£3.95)
Learn to read music and music quiz
CLE 67 PHOTO (£5.95)
Comprehensive photographic manual
CLG 68 WITNESS (£3.95) #
Classic "Defender" style game
CLG 69 CYBERDROID (£3.95)
If you love games this has everything
CLG 70 WINNING POST (£4.95)
Excellent Horse Racing Sim.
CLU43 – LOTTERY FORCASTER (3.95)
CLU44 – NATIONAL LOTTERY (£3.95)

CLR ENCYCLOPEDIAS

Excellent range of educational disk based encyclopedias, with detailed text, diagrams and photos
CLE01 DINOSAURS 2 (£4.95)
CLE02 GEOLOGY (£4.95)
CLE03 SOLAR SYSTEM (£5.95)
CLE14 ECOLOGY (£5.95)
CLE32 SPITFIRE (£4.95)
CLE33 MESSERSCHMITT BF109 (£4.95)
CLE34 YOUR FIRST PONY (£4.95)
CLE35 SOLAR SYSTEM 2 (£5.95)
CLE38 HOME INVENTIONS (£4.95)
CLE49 DINOSAURS 3 (£5.95)
CLE54 THE TITANIC (£4.95)
CLE56 CHEMISTRY (£4.95)
CLE58 STARS & GALAXIES (£5.95)
CLE62 BASIC MASSAGE AND AROMATHERAPY # (£5.99)
CLE63 TUTANKHAMUN (£4.95)

MIDICRAFT MAGAZINE

Following on from where the highly successful AM/FM left off, this new disk based mag from the Craft Brothers is a must for all Amiga musicians
£2.50 per issue
(Issue 4 now available)

MORTON STRIKES BACK AGA – £7.00

Brilliant A1200 only version of this classic style platform game with 80+ colourful levels
NON AGA VERSION – £5.00

NOTHING BUT AMOS

Issue 7 of the best selling AMOS disk magazine
£2.50
(£4.50 with support disk)
Issues 1 to 6 also available

OG 2 – £3.95

A1200 AGA Version of this highly successful commercial quality platform game

OG 1 – £3.95

Non AGA version

TYPING TUTOR 2

Updated version of this comprehensive Typing Tutor with structured lessons and speed tests. A must for beginners and experienced typists wanting to improve their skills
£3.95

NEW – OctaMED V6 – £35.00* – NEW

New font-sensitive GUI layout. Loads & saves Standard MIDI files. Supports RAW, IFF, AIFF, WAVE, MAUD samples (mono & stereo). Save mods as executable files. Supports Aura sampler and Toccata sound board.
(Requires Kickstart 2 or greater)
*Registered V5 users – call for upgrade details

AURAL ILLUSION V2 – £20.00

8/16 BIT SAMPLE PROCESSOR
32 bit processing – Powerful editing functions
30 Effects including Time Stretch, Graphic Eq. Mixer & Resonant Filter
55 Manipulations including Tuning, Filters & Modulations etc.
Compatible with most popular 8/16 bit file formats including IFF, AIFF, WAV, VOC etc. – Improved Synthesised Sound Editor
(Note – needs Kickstart 2 or greater & 2 Meg of RAM)

KIDS ONLY – £10.00

Originally due for commercial release this brilliant collection of educational activities is now only available from Seasoft
COLOURING PAD, DOT 2 DOT, PICTURE SLIDE, PAIRS, MUSIC MAKER, WORD SEARCH AND I-SPY
Each colourful activity has various skill levels making this title ideal for kids of all ages.

MIDI MODULES

High quality Music-X and Amiga/PC MIDI files (state format required) produced and arranged by Kevan & Gareth Craft
Volume 1 - £15.00 **Vol 2 for Keys - £10.00**
Volume 3 - £20.00
Dynamite Drums 1 – £10.00 **Dynamite Drums 2 – £15.00**
Call for further details

COME AND SEE US AT THE
SPOTLIGHT '95 SHOW
NOVOTEL HOTEL
10-11th JUNE

T.I.10 - £2.50

Latest issue of the MED Users Group Disk magazine. Essential reading for all OctaMED users
(Iss 6 to q10 also available)

A DROP IN THE OCEAN – £10.99

This audio CD shows what can be achieved with a modest studio set up and an Amiga.
12 original compositions from the Craft Brothers

ETHEREAL - £2.50

Amiga floppy disk version of Dave Sullivans track for the "Amiga Experiment" CD. Although the CD may not now be published you can hear Daves work on this huge OctMED module

H/W PROGRAMMERS MANUAL

Vol 5 & 6 now available
£5.00 each
Volumes 1 to 3 – £12.50
Vol 4 – £5.00

F1 56 GIDDY 2 – £3.99

Sequel to the Best Public Domain Game "Giddy"
Commercial quality platform game

F1 LICENCEWARE

WE STOCK THE COMPLETE RANGE OF F1 TITLES

F1 07 FORTRESS # (£3.99)
War arcade/strategy game (Need 2 Meg chip)
F1 10 KARATE MASTER # (£3.99)
Serious Karate sim (2 Meg chip)
F1 18 RELICS OF DELDRONEYE (£6.99)
Epic adventure game (2 Meg chip)
F1 22 ASK ME ANOTHER (£3.99)
Educational programs for 3+ years
F1 27 THE STATES OF EUROPE (£3.99)
Encyclopaedia about Europe
F1 28 C.L. INDEX # (£3.99)
Amiga Dox C commands ref book
F1 31 POWER BASE # (£3.99)
Powerful, user friendly database
F1 33 POWER PLANNER # (£3.99)
Personal organiser
F1 34 F1 CHALLENGE # (£3.99)
Manage your own GP racing team
F1 37 SUPER BINGO 2 # (£3.99)
Bingo game (Need 1 Meg chip)
F1 38 AMBASSADOR PRO # (£3.99)
Fruit machine sim (Need 1Meg chip)
F1 40 HENRY HOUSE (£4.99)
Colourful platform game for kids
F1 42 MAGPIES KIDS CLIP ART (£4.99)
400 high quality scanned/IFF pics
F1 43 MAGPIES CLIP ART (£7.99)
900 high quality scanned/IFF pics
F1 44 BLACKBOARD V3 (£5.99)
Image processor. Needs 2 drives
F1 48 ERIK (£3.99)
Commercial quality platform game
F1 50 BEGINNERS GUIDE TO AMOS (£4.99)
F1 51 WORKBENCH/AMIGADOS# (£4.99)
Text book about Kick V2 or above
F1 55 AMOSZINE 4 (£3.99)
Special edition for all Amos users
F1 59 PUNTER (£3.99)
1-4 Player Horse Racing Game
F1 60 ULTIMATE QUIZ (£3.99)
Well presented Trivia Quiz
F1 61 CAPTAIN CARNAGE (£3.99)
Excellent "Alien Syndrome" game
F1 66 G.R.A.C. # (£4.99)
Powerful Graphic Adventure Creato
F1 69 GUITAR CHORD COACH (£3.99)
A must for all guitarists – teach chords

CD ROMS

CD-ROM prices include p&p (UK only)

MULTIMEDIA TOOLKIT 2 - £29.95
The FULL version of OctaMED V5.04, hundreds of modules, samples and utilities from the MED User Group and OctaMED BBS, over 50 Megs of MIDI/Music-X files and other goodies from the Craft brothers, 140 Megs of Imagine and 50 Megs of Lightwave objects, hundreds of textures, backdrops, landscapes and other pics in 24-bit J-PEG, Ham-8 and 16-colour (Scala etc. formats), loads of Magic Workbench Icons etc. and lots, lots more.

17-BIT PHASE FOUR - £19.95
All the very latest from the 17-Bit collection.

ADULT SENSATIONS - £19.95
The perfect companion for all nature lovers.

AMOS PD - £19.95
The official AMOS PD library (1 to 621) and lots more.

ASSASSINS COLLECTION - £19.95
Over 650 games ready to run from an easy to use menu

CDPD 4 - £19.95
Fish disks 891 to 1000, AM/FM, GNU C/C++, etc.

DESKTOP VIDEO - £14.95
Stacks of textures, fonts, backgrounds, objects & utils.

EMERALD MINES - £14.95
Over 10,000 levels of this classic game OK on CD32.

FRESH FISH 8 - £24.99
Double CD with the very latest from Fred Fish

GOLD FISH - £29.95
Fred Fish 1 to 1000 in archived and ready to run form

GOLD FISH 2 - £29.95
Double CD with the best of Fresh Fish 1 to 6

GRAPHICS SENSATIONS - £19.95
Collection of graphics tools, images, objects, anims etc.

ILLUSIONS 3D - £9.95
Loads of Stereogram tools & pics for the Amiga & PC

LSD/17-BIT COMPENDIUM - £19.95
LSD Legal Tools 1 to 149, Pics, Anims & much more

NETWORK ROM - £14.95
Various networking tools, Fish, AMOS, T-Bag etc.

PROFESSIONAL UTILITIES - £19.95
Over 1500 disks of applications & utilities from PD-Soft.

PROF. GIF £19.95 PROF. PCX - £19.95

SOUNDS TERRIFIC - £19.95
Double CD with thousands of music files for Amiga & PC.

SPECTRUM SENSATIONS – £19.95
Amiga & PC spectrum emulators & loads of speccy games

W.S. CLIP ART - £9.95 W.S. FONTS - £9.95

HOTTEST 5 - £19.95
The latest material from the PDSoft library with all the most up to date utilities, demos, games, anims etc.

AMINET 5 - £14.95
Latest offerings from the Aminet archive. Thousands of files of applications, mods, demos tools etc. & over 1000 games.

AMINET PACK 1 £29.95
The best value CD title around. Aminets 1 to 4, recompiled and updated on this massive 4 disk set.

ANIMATIONS - £19.95
2 CD set from Weird Science containing over a gigabyte of all types and sizes of animations. All ready to run from easy to use menus.

LSD/17-BIT VOL 2 £19.95
Over 600 Meg of the latest comms, leisure, programming & utils software for Kickstart 2 & 3 users.

PROFESSIONAL IFF & PCX CLIPART 2 – £19.95
hundreds of high quality clipart images for Amiga & PC. Includes a 250+ page book with printouts of most of the images

Buy any 2 CD-ROM's and save 10%
Buy 3 for a massive 15% discount

MEGA MOUSE
Microswitched
400dpi ultra high resolution
£12.95

KIDZ MOUSE
£12.95

ACCESSORIES
MOUSE MAT - £2.99
PICTURE MOUSE MAT - £3.99
BUDGET MOUSE - £9.99
MOUSE HOLDER - £2.50
MOUSE CLEANER - £4.99
HEAD CLEANING KIT - £2.99
PRINTER STAND - £4.99
KB WRIST SUPPORT - £4.99
MESH MONITOR FILTER - £12.50
GLASS MONITOR FILTER - £17.50
CD CASES - £6.00 for 10

JOYSTICKS
APACHE 1 - £7.50
PYTHON 1M - £9.95
STARFIGHTER - £9.95
ZIPSTICK - £12.95

PC ANALOGUE JOYSTICKS
AVENGER - £12.50
SUPER WARRIOR - £17.50
(PC-AMIGA ADAPTOR - £4.95)

STARTER PACK
10 Blank Disks, Mouse Mat, Head Cleaning Kit, 100 Capacity Disk Box, Amiga Dust Cover (state A500/A600/A1200)
£15.00

DISKS & BOXES
(£1.00 p&p)
DSDD DISKS
100% error free
(price includes labels)
10 - £4.00
50 - £18.75
100 - £35.00

SPECIAL OFFER
DSDD TDK BRANDED
ONLY £4.50
per box of 10
Limited stocks available

DSHD DISKS
10 - £5.00
50 - £22.50
100 - £40.00

DSHD BRANDED
10 - £7.00
50 - £32.50
100 - £60.00

EXTRA DISK LABELS
100 - £1.50
500 - £6.00
1000 - £10.00

DISK BOXES
10 cap - £1.25
50 cap - £3.75
100 cap - £4.99

TECHNOSOUND SAMPLERS
TURBO - £22.50
TURBO 2 - £27.50

MIDI INTERFACE
£22.50

DUST COVERS
80 COLUMN PRINTER - £4.99
132 COLUMN PRINTER - £4.99
HP DESKJET - £6.99
14" MONITOR - £4.99
15" MONITOR - £5.99
17" MONITOR - £6.99
A500/A600/A1200 - £2.99
(state model required)

CABLES & CONNECTORS
PRINTER LEAD (1.8m) - £3.99
PRINTER LEAD (5m) - £6.99
MODEM LEAD - £5.99
AMIGA NULL MODEM - £5.99
PRINTER SWITCH BOX - £12.50
CENTRONICS LEAD (1.8m) - £4.99
4 PLAYER ADAPTOR - £5.99
LONG JS EXTERNDER - £4.99
SHORT TWIN ENTENDER - £4.99
AMIGA-SCART LEAD - £10.00
MIDI LEAD (3.0m) - £4.99
MIDI LEAD (6.0m) - £6.99

PARNET
1.8m lead - £10.00
5.0m lead - £15.00

CD32 - AMIGA SERIAL LEAD
£19.95

Please remember to add the following Postage & Packing charges:
50p to orders for P.D./Licenceware only (£1.50 Europe, £3.00 R.O.W.)
or £1.00 if your order includes other items (Europe & R.O.W. at cost).

Please make cheques/postal orders payable to SEASOFT COMPUTING and send to:

Seasoft Computing, (Dept AC), Unit 3, Martello Enterprise Centre, Courtwick Lane, Littlehampton, West Sussex BN17 7PA
or telephone

(01903) 850378

10.00am to 7.00pm Mon-Fri (to 5pm Sat)
Callers by appointment only please

FREE FREE P UNDERGROUND D FREE FREE

GAMES CHEATS 1.4 EMULATOR ON ALL ORDERS — LIBRARY DISK POST & PACK ON ALL ORDERS

PLATFORM GAMES
- 998 LEMMINGS T.R.W.
- 1017 GLASSBACK V2
- 980 A12 KELLOGS LAND
- 020 LEMMINGS ARCADE
- 878 TOP HAT WILLY
- 791 DOCTOR STRANGE
- 715 SUPER BLUE KID
- 017 CRAZY SUE VI
- 188 CRAZY SUE V2
- 711 WALLYWORLD 2 DISK
- 961 JUDGEMENT DAY
- 1036 NESQUICK GAME

SPACE BLASTERS
- 911 SOLO ASSAULT
- 906 OBLITERATOR
- 031 OBLIVION
- 805 TRANS-PLANT
- 498 THE LAST REFUGE
- 596 GORF INVADERS
- 343 CYBERNETICS
- 972 GALAGA V2.4
- 679 STAR-RIANS
- 548 CAFFEINE FREE

ARCADE GAMES
- 1002 DYNO WARRIORS V2
- 555 HUGO V2 5 DISK
- 875 MISSILES 2 DISK
- 933 SEWER BLAST
- 976 BEAVIS & BUTTHEAD
- 429 ZOMBIES APOCAL
- 870 ROCKETZ A1200
- 975 SUICIDE MACHINE
- 273KELLOGS EXPRESS
- 912 RUDOLF - SANTA
- 916 GAME HOI A1200
- 966 MERCURY MISSION
- 952 NANO FLY
- 983 SAXXON NOT 1.3

P.D. VERSIONS
- 024 ELF & PP HAMMER
- 025 HUNTER PLUS
- 477 CADAVA-VENUS FLY
- 022 GODS-TIMACHINE
- 026 ROBOCOP-TIRECALL
- 055 SMASH-TV NOT A12
- 522 OSCAR CD A1200
- 815 LEMMINGS PACK
- 023 RICK DANGEROUS
- 472 TETRIS GAMEBOY
- 027 CHUCK ROCK-ICE

COMBAT GAMES
- 941 FATAL BLOWS
- 929 WRESTLING 2 DISK
- 938 MARTIAL SPIRIT
- 696 TO THE DEATH A12
- 290 FIGHT WARRIORS
- 930 A.B.H. A12 6 DISK
- 492 KARATE WARRIORS

CLASSIC GAMES
- 225 BOMBJACK NOT A12
- 011 ASTEROIDS
- 693 MISSILE COMMAND
- 778 OVERLANDER
- 692 SPACE INVADERS
- 308 DONKEYKONG NOT A12
- 841 COOKIE

DRIVING GAMES
- 969 MANG-FEND NOT 1.3
- 974 F1 EDITOR 94/5
- 951 FLAMING ENGINES
- 469 THE ROAD TO HELL
- 735 AUTOMOBILES
- 613 HIGH OCTANE 2
- 682 MOOSE DRIVE

SIMULATORS
- 1008 7DSK TOM CAT H/D
- 926 HELICCPTER
- 332 SEALANCE-SUB
- 811 CAR MANIACS
- 544 AIR WARRIOR
- 333 BATTLE CARS V2

SPORT GAMES
- 1014 CRAZY GOLF
- 366 GOLF 18TH 2 DISK
- 822 CRICKET AMOS V2
- 630 TEN PIN BOWLING
- 104 FUTURE FOOTBALL
- 686 SPORT CHALLENGE

HINTS & CHEATS
- 1000 S.M.G.T.C. 95
- 418 1000 CHEATS
- 931 BACKDOOR V3
- 990 NOSTROMO 95 NOT A5
- 821 PASSWORD MANIA
- 813 GAME TAMER V4.5
- 820 MEGA CHEATS
- 681 SIERRA SOLUTIONS
- 019 GAME TAMER V2.3

OVER 18 GAMES
- 997 ADVENT V1
- 1001 ADVENT V2
- 101 TERROR LINER V1
- 712 TERROR LINER V2

TETRIS - COLUMNS
- 294 KLACK-TRIS COLMS
- 107 TWIN-TRIS TETRIS
- 390 DIZZY DIAMONDS
- 293 DR-MARIO COLMS
- 971 SPELL-TRIS
- 617 NUMBER-TRIS
- 964 TEAM TETRIS
- 626 MEGA-BLOX TETRIS
- 013 TET-TREN TETRIS
- 597 TETRIS PRO
- 611 HOT-BLOX TETRIS
- 657 ZYNX COLUMNS

PAC-MAN GAMES
- 397 DEL P-MAN NOT A12
- 923 BOMB32 PAC/M A12
- 230 SUPER PAC MAN
- 922 GOLD RAID
- 102 LADYBUG PAC MAN
- 008 ORIGINAL PAC MAN
- 592 PAC MAN RETURNS
- 252 YUM YUM PAC MAN

BREAK-OUT & PONG
- 003 MEGABALL V1
- 459 MEGABALL V2
- 559 MEGABALL V3 NOA5
- 709 W-W PONG NOT 1.3
- 007 BATTLE PONG
- 421 REBOUNDER PONG
- 733 SICK-BALL NOT 1.3

BOULDERDASH GAMES
- 731 HAUNTED MINES
- 254 EMERALD MINES
- 121 MARATHON MINES
- 351 ROYAL MINES
- 391 DIZZY LIZZY MINES
- 718 C64 BOULDERDASH
- 480 BLUE DIAMONDS

PUB-CLUB GAMES
- 939 CASH CARDS NOT1.3
- 560 WORLD DARTS
- 598 PIN BALL NOT 1.3
- 222 FRUIT MACHINE
- 932 MEGA FRUITS
- 010 POKER ARCADE
- 375 CARDS SOLITAIRE

BOARD GAMES
- 910 NEW MONOPOLY STAT
- 032 MONOPOLY USA
- 631 SCRABBLE
- 296 RISK (GLOBE-WAR)
- 842 RAGS TO RICHES
- 015 WAR ANIMATED
- 476 CHESS GAMES

ADVENTURE GAMES
- 1018 MORIA VERSION 3
- 1019 3 ADVENTURE GAMES
- 116 STAR TREK 2 DISK
- 482 BLACK DAWN
- 877 BLACK DAWN V2
- 297 NEIGHBOURS 2 DISK
- 962 FEARS A1200 DOOM
- 954 D.O.N A1200 3 DISK
- 925 T-ZONER 2 DISK NOA5
- 1038 SEED OF DARKNESS

STRATEGY GAMES
- 967 COL-CON V2 NOT 1.3
- 968 KINGDOMS AT WAR
- 810 TASK FORCE
- 876 GLOBAL NUKE WAR
- 826 IND-ESPIONAGE A12

PUZZLER GAMES
- 953 CHANEQUE 2 DISK
- 914 JINX A1200 2 DISK
- 859 TEN PUZZLES NOA12
- 250 RUBIX CUBE-ULOUS
- 374 ESC-CASTLE KUMQAT

MANAGER GAMES
- 868 THE SUPER LEAGUE
- 876 SCOTTISH LEAGUE
- 310 TOP OF THE LEAGUE
- 668 USA 94 SOCCER CDS
- 404 METROS MANAGER
- 321 AIRPORT
- 322 MICRO MARKET
- 443 SLAM BALL
- 817 BLOOD BALL

QUIZ GAMES
- 716 POP MUSIC QUIZ
- 309 THE QUIZ MASTER
- 462 WHEEL OF FORTUNE
- 991 TREK TRIVIA 2 DISK
- 1033 TAZ QUIZ NOT 1.3
- 1031 TREK TRIV 5 DISK

LOGIC GAMES
- 603 EXIT 13
- 442 REVERSI V2
- 119 DRAGON'S TILES
- 112 DRAGON'S CAVE
- 323 OXYD LOGIC
- 530 OTHELLO
- 1037 MARBLES GAME
- 1035 ATOMIC GAME

AMIGA LEISURE
- 1006 TEN PIN EDITOR
- 1027 COP THE LOT PRO
- 444 GOLF DATABASE
- 940 LOTTERY WINNER
- 205 AMIGA PUNTER
- 228 PERM CHECKER
- 886 LEAGUE EDITOR
- 1034 A12 SNOOKER FAX

A1200 MEGADEMOS
- 1010 ROOTS 18
- 1007 2DSK MOT ORIGIN
- 828 3 DISK MAX O/D
- 862 2 DISK SUB XTC
- 995 ZOOT JE
- 624 2 DISK SNAKE RIDE
- 782 COMPLEX REALITY
- 996 SOUL KITCHEN 2 DISK
- 963 2 DISK SWITCHBACK

AMIGA MEGADEMOS
- 1010 TAZ GAS NOT 1.3
- 946 DESERTDREAM 2 DISK
- 460 TEKNO RAVE
- 430 2 DISK DATA X
- 217 MEGA ALCATRAZ
- 269 DIGI INNOVATION
- 449 2 DISK 9 FINGERS
- 262 2 DISK PREDATORS
- 314 J-O-E 2 DISK 2 DRIVE
- 267 REBELS MEGADEMO
- 326 STATE/ART NOT 1.3
- 215 BLUES HOUSE 2 DISK

A1200 SLIDE SHOWS
- 740 4 DISK MANGA
- 507 5 DISK WEIRD/SCI
- 760 2 DISK KING TUT

AMIGA SLIDE SHOWS
- 704 REVELATIONS
- 061 PAT NAGEL'S GIRLS
- 765 INVISIBLE WORLD
- 918 ERIC'S GIRLS 2 DISK
- 936 AVIATION HISTORY

ARTWORK PACKAGE
- 465 KIDS PAINT
- 664 FUSION PAINT
- 561 ARTISTIX PACK
- 063 ULTRAPAINT
- 349 SPECTRA COLOUR
- 748 ILLUSION PAINT

ARTWORK PROGRAMS
- 1026 JPEG-GIF-VIEWTEK
- 071 GRAPHICS CON KIT
- 070 GRAPHIC UTILS
- 133 FRAC LAND BUILD

ANIMATIONS
- 080 VIRTUAL WORLDS
- 084 PUGGS IN SPACE
- 233 COOL COUGAR
- 651 FAIRLIGHT 242
- 302 ODYSSEY 5D NOTA12
- 831 RED DWARF
- 475 BAIT MASKING
- 463 MR POTATO HEAD
- 474 MISS MAMSELLE A12
- 865 TAROT MASTER 2 DISK
- 861 AMY AT THE MOVIE
- 271 NEWTEK V2 2 DISK
- 347 NEWTEK V3 2 DISK
- 187 ANIMATION STUDIO

AMIGA VIDEO
- 329 VIDEO INSCRIPT
- 790 VIDEOTRACKER 5 DISK
- 148 5 - MOOVIE

MUSIC MAKERS
- 220 FUNK KEYBOARDS
- 431 RAVE KEYBOARDS
- 661 MED WORKSHOP 4DISK
- 202 MED V3.2
- 204 SOUNDTRACKER
- 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

CLASSIC – POP
- 201 PIANO CLASSICS
- 234 VIVALDI 2 DISK
- 342 AMIGA-DEUS
- 213 DIGI CONCERT V2
- 620 BAGPIPE MUSIC
- 750 DOOP DOOBY DOOP
- 248 EXPRESSION V2
- 473 RHYTHM'S DANCER
- 1029 COTTONEYE SONG

SAMPLES – MODS
- 660 KORG 01W 8 DISK
- 218 HOUSE 2 DISK
- 206 SELECTION 7 DISK
- 647 SOUND FX 3 DISK
- 619 DRUMS 2 DISK

AMIGA EMULATION
- 1005 TUDE NOT 1.3
- 891 B.B.C. MICRO
- 423 2 DISK SPECTRUM
- 889 PC EM 2 DISK
- 327 ACTION REPLAY
- 300 RELOKICK 1.3
- 955 RELOKICK 1.4A
- 414 SKICK 1.3-3.0
- 378 A600 NUMBER PAD

DISK COPIERS
- 380 NIBBLER (NIB)
- 727 MULTI TASK (MT)
- 158 X.COPY PRO
- 357 COPY AND CRACK
- 325 LOCKPICKER V2
- 416 MAVERICK V5

HARD DRIVERS
- 191 H/D CLICK MENU
- 501 R/D PREP A1200
- 779 W/B 3 INSTALL
- 780 W/B 2 INSTALL
- 621 H/D STACKER
- 665 MR BACK UP PRO
- 490 8 DISK MAGIC W/B
- 533 H/D SUPERLOCK
- 957 GAME INSTALL V2

PRINTING
- 065 AMIGA FONT 7 DISK
- 100 PRINTER DRIVERS
- 048 PRINTING STUDIO
- 345 BANNER MAKER
- 243 AWARDMAKER 5 DISK
- 057 TEXT ENGINE V4
- 393 LABEL DESIGNER
- 394 INVOICE PRINT
- 437 EDWORD TEXT ED
- 749 FORM PRINTER

AMIGA BUSINESS
- 832 DATABASES 2 DISK
- 092 ACCOUNT MASTER
- 240 ADDRESS BOOK
- 691 DAILY DIARY
- 470 LITTLE OFFICE
- 244 SPREADSHEET
- 535 UK S.T.D. CODES

COLOUR CLIP ART
- 637 6 DISK COL/BRUSH
- 633 7 DISK CLIP ART
- 901 9 DISK WORLD MAP

MONO CLIP ART
- 172 15 DISK PORTFOLIO
- 558 7 DISK CLIP ART

AMIGA MODEM
- 074 HACKING MANUAL
- 702 COMMS TUTORIAL
- 413 N. COMMS V3
- 079 OPTICOMMS V2
- 690 TERM 2 DISK
- 801 DMS PRO

PROGRAMMERS
- 288 A-BASIC TUTOR
- 190 PCQ PASCAL
- 481 ABOUT AREXX
- 383 E. MODUAL
- 156 SOZOBON C.
- 362 C. TUTOR 12 DISK
- 306 UNDERSTAND AMOS
- 722 TONS OF AMOS

DO IT YOURSELF
- 239 SLIDESHOW MAKER
- 381 ADVENTURE MAKER
- 808 MAKE A DISK
- 242 MENU MAKER
- 724 AMIGA FAX
- 585 2 DISK PARNET
- 723 TELETEXT NOT 1.3
- 1032 MAX B.B.S. KIT

VIRUS CONTROL
- 506 A1200 VIRUS
- 160 M.V.K. PLUS
- 993 VIRUS Z

AMIGA UTILITIES
- 612 3 DISK TOOL-KIT
- 1030 S12 DIONIC TOOLS

DISK & SYSTEM
- 166 SYSTEM TESTER
- 467 FILE UNDELETE
- 194 DISK OPTIMISE
- 356 ENGINEER'S KIT
- 245 FIX DISK
- 168 HARDWARE MANUAL

AMIGA EDUCATION
- 766 GEOGRAPHY
- 532 MATHS 5 DISKS
- 644 ENGLISH 4 DISK
- 486 LANGUAGES 4 DISK
- 270 PLANETS 6 DISK
- 304 ENGINES 5 DISK
- 059 AMIGA TUTORIAL

DISKS COST £1.25 EACH, NO MINIMUM ORDER, ALL VIRUS FREE AND USER FRIENDLY
All Games are on 1 disk and run on all Amigas unless otherwise stated.
PICK AN EXTRA DISK FOR FREE WITH EVERY EIGHT DISKS YOU PURCHASE

UNDERGROUND P.D., 54 CARMANIA CLOSE, SHOEBURYNESS, ESSEX SS3 9YZ. Tel: 0702 295887

Name:..... Amiga Model:.....

Address.....

..... Postcode:.....

VLab Motion

It's a strange thing, but it appears the vast majority of Amiga journalists seem oblivious to the importance of the VLab Motion system. Such is the importance of this product, and the revisions to the MovieShop software, that another look is essential.

In short, the VLM system provides the only affordable means of producing broadcast quality AV – alias audio video – in a truly digital off-line environment. I think what has caused the animosity on the part of the journalistic fraternity is the rather optimistic and, dare I say, <None>unrealistic claims for the product on its initial launch.

In the early days, the accompanying manual combined unrealistic claims for hardware compatibility with a painful lack of essential information. This would be bad enough on fairly simple products, but that's one thing VLM certainly isn't. Although very easy to operate when configured, initial set-up can be a complex procedure demanding the assistance of a quality manual.

Fortunately, MacroSystem's have finally taken care of this key shortfall and replaced the original skimpy manual with a 200-page offering that delivers all the information you're ever likely to need in a friendly and comprehensible manner.

In reality VLM, like all DV systems, requires a relatively hefty machine, with the most important element being a fast hard SCSI II drive. Unfortunately, it's true that VLM can't match the image quality of the PAR – alias Personal Animation Recorder – on a less than perfect system – namely an 040 CPU running a SCSI II drive. However, even with the image quality compromise on lesser machines, the benefits far out-weighed the limitations via a combination of flexibility, functionality and cost effectiveness.

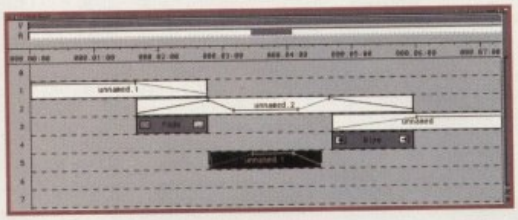
For example, I regularly run the system on an 040-based A3000 running a standard SCSI. As a result I can only reliably attain 65 per cent compression – which equates to image quality roughly similar to a quality composite/VHS signal.

In order to obtain BetaCam SP quality, I would require somewhere between 85 and 90 per cent – which simply isn't possible in video resolution on a standard SCSI device. Even though my VLM set-up can't compete with a PAR on the same machine when it comes to pure image quality, I wouldn't swap, simply due to the massive range of additional features the MovieShop software can provide. The most important bonus is VLM's ability to operate as a true off-line editor. Unlike the PAR, actually moving edits around the video sequence is both easy, fast and, better still, instantaneous.

The ever-growing collection of VLM digital video effects. But be warned – without a fast CPU, DVEs can take a long time to generate

Silky-smooth crossfades are one of the key elements in VLM's roll in A/B roll emulation

ADPro-style automated DVEs are all part of the VLM package



A simple example of A/B roll, DVEs and imported audio. Scene one fades to scene two, which in turn is wiped by scene three. Meanwhile, the audio ramps and crossfades to match the video transitions and also drops down during the vocal overdub. Drag and drop editing at its best

CUELIST

Rather than physically moving the data around the drive, VLM simply makes a cuelist from the existing data and skips around – assisted by a RAM buffer – reading the specific data as required. As a result, making changes to the running order of scenes, or entire movies, is instant, whereas the same edits on a PAR could literally take hours as the system physically rearranges the data to reflect the new running order.

Another unique and truly superb feature of VLM is its seamless combination of audio and video. Since version 2.0 of the MovieShop software, VLM has had the ability to act as a true digital AV – audio/video editing system. Unlike any other Amiga system, audio and video are actually hard-wired together. As a result when you cut, copy and paste video, the same edits apply to the accompanying stereo or mono 16-bit audio. When the need arises you're still free to import and export the accompanying audio tracks, and mix them within MovieShop to generate a perfect backing track.

Although both VLM and the Toccata sound card combine forces within the MovieShop environment, samples captured directly via the Toccata's Samplitude software – such as backing music or narration – can still be imported and mixed with the existing AV in the production.

Better still, any imported or directly captured audio can still be worked upon within MovieShop. For example, you can import as much audio as you like, adjust its length, and position it on the Timeline wherever you want.

However, perhaps most important, you also have complete control over the envelope of the samples you're working on. As part of the Timeline control, you're provided with an envelope requester which allows you to insert multiple edit points.

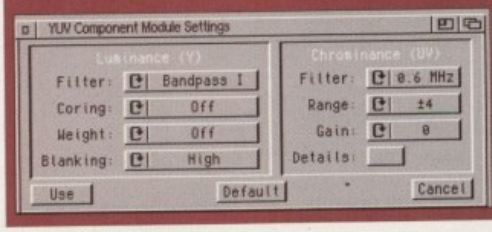
Consequently, you can adjust the sound level for each sample as often as is necessary, or even create cross-fades between different audio tracks. In short, complete control over the sound dynamics within the production. Once you've achieved a suitable

Stunning image quality cover from a composite source

Component plug-in

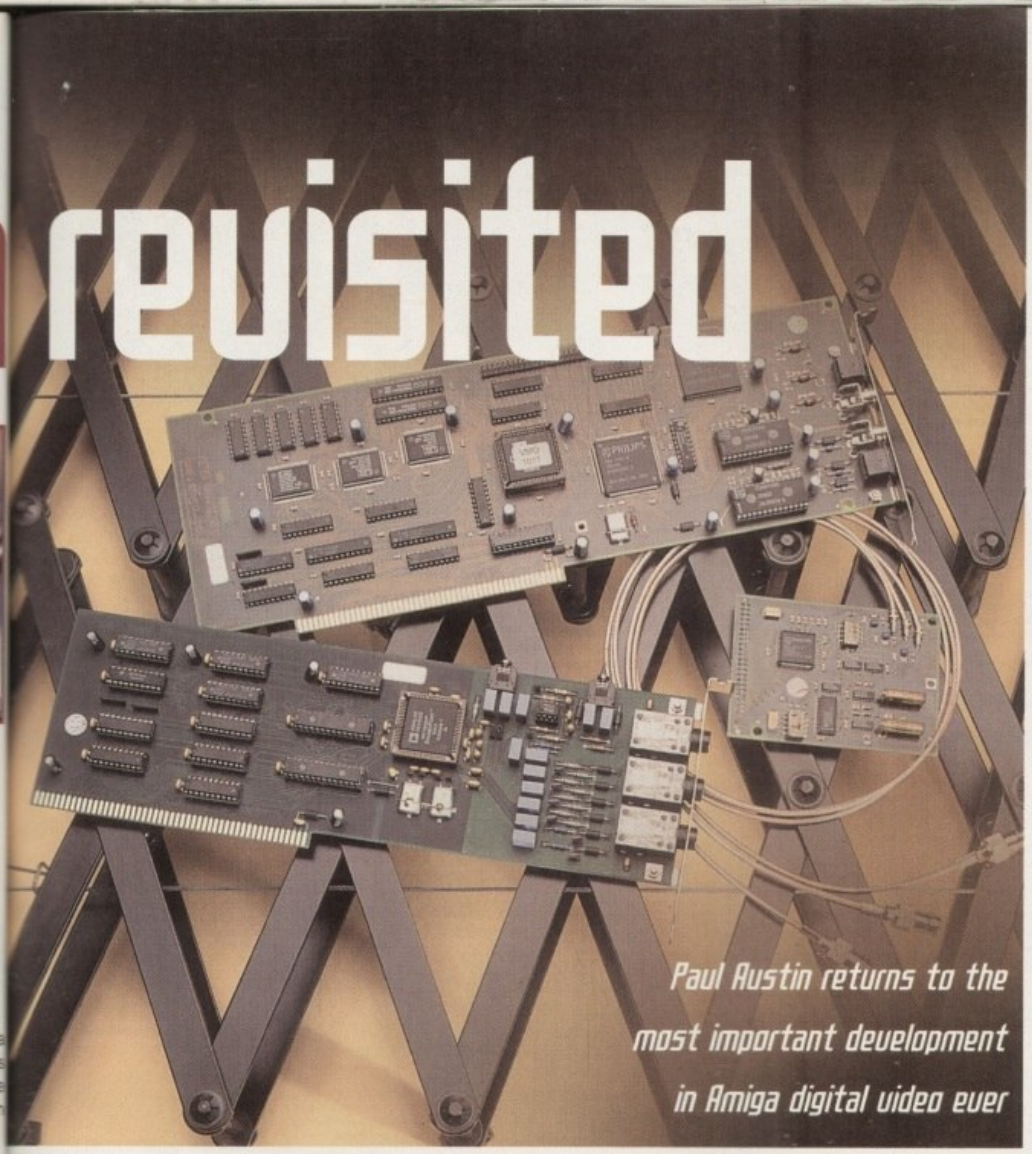
A shortfall often levelled at VLM, especially in relation to the PAR system, is the lack of component import and export. However, this compromise has now been put to the sword with the launch of the long-awaited YUV module.

Thanks to this latest addition, you can now compete in the broadcast market via a direct link to BetaCam SP equipment and other broadcast quality hardware.



The soft side of the all-new YUV component module. Add a BetaCam SP recorder/player and you're in the big league

revisited



Paul Austin returns to the most important development in Amiga digital video ever

mix between the original audio, backing music, vocal over-dubs, sound effects or whatever else, the whole thing can be boiled down into a new super sample which can be linked to a particular section of video or kept as a separate element.

The finishing touch on the audio side is the arrival of a built-in SMPTE timecode generator. Now, striping a tape with timecode is simply a matter of plugging in the target recorder and clicking on a button – yet another broadcast essential catered for.

When the realtime grabbing and importing is complete, and the assorted clips have been trimmed, edited, and appended, the next step is to drop them into the Timeline and add the all important special effects and additional audio. At this stage you should have the various video clips spliced into complete scenes ready for the assorted cross fades and special effects.

LAYERING

The actual process of building the Movie is entirely non-destructive. In reality, it simply offers a means of layering and combining existing audio and video. The end result is user-defined sequencing of all the existing scenes – aided by visual and audio effects. If a new clip overlaps an existing element, a fade operator could be dropped between the overlap to produce a digital cross-fade.

This ability to mix and process multiple sequences points to another unique feature of VLM, namely its ability to operate as a digital A/B roll environment with a built-in digital effects processor.

Admittedly, this is by no means a real-time process, as once the scenes are arranged and the operators are in position, MovieShop sets about processing the video sequence, transitions and effects specified within the Timeline. Obviously this is all done automatically, but it nevertheless takes time as the process is done entirely via software – in a similar way in which ADPro and ImageFX apply effects to single images. Needless to say, the faster your CPU the better.

As you've probably guessed, audio is also computed in a similar manner. So if, for example, you've added a backing track or adjusted the envelope within an existing AV soundtrack, a separate computing pass is needed to apply the changes. Fortunately, this is much faster than applying video specific operators.

It must be stressed that non of the timeline operations are destructive. The software simply takes existing data, applies your edit decisions and effects, and then generates the results as a standalone AV sequence.

Although the process may sound daunting, after a little practise it becomes second nature. Fortunately, beginners are catered for via an easy mode in addition to the more complex RPN approach – which can process an almost unlimited number of sequences alongside multiple layered special effects. AC

Audio add-on

Firstly, the addition of CD quality 16-bit stereo audio is a matter of a £300 investment via a Toccata card, as opposed to £1000 for a stereo SunRize AD516 on the PAR system.

However, regardless of cost, the pure functionality of the VLM and Toccata combo makes it a far better investment. Unlike AV on the VLM, the PAR does not actually link the audio and video elements in a captured sequence.

As a result, if any edits are made on the PAR to either the video or audio track, the lip sync between the two will be lost unless you repeat exactly the same cut, paste and copy operations within the AD516's own control software.

In short, the sampler and video digitiser are completely separate entities. To keep things in sync requires a lot of manual effort, and of course there's no A/B roll emulation, DVEs, built-in chroma keying or automated audio processing.

In a nutshell...

Due to the pure scale of the VLM environment, the above has merely concentrated on the new and improved. However, that only scratches the surface of this incredible combination of hardware and software.

Given a suitable machine, the VLM and Toccata combination provides a complete digital AV solution which combines all the essentials of a true off-line editor, single frame recorder and DVE generator within a truly broadcast quality environment.

If all of the above doesn't make up for the scepticism and confusion surrounding the product's initial launch, I can't imagine what will. I only hope this update helps the VLM system receive the credit and sales it so richly deserves.

The bottom line

Product: *VLab Motion*
Supplier: *The Amiga Centre Scotland*
Price: *VLab Motion = £885 plus VAT*
Toccata *= £245 plus VAT*
YUV module *= TBA*
Phone: *01896 870583*

Weird Science

Tel. 0116 234 0682 or Fax. 0116 236 4932

CD Roms

Multimedia Toolkit CD

AN AMIGA CD, CDTV & CD32 APPLICATION

CONTENTS

OVER 10,000 FILES
500 24 BIT IMAGES
ALSO IN HAM8 & HAM
1308 COLOUR CLIP ART
2139 MONO CLIP ART
93 SCALEABLE CLIPS
750 MUSIC MODULES
2300 SAMPLES

195 BITMAP FONTS
120 COLOURED FONTS
107 ADOBE FONTS
80 POSTSCRIPT FONTS
79 CG FONTS
214 ICONS

PC COMPATIBLE IN ISO9660 FORMAT

ONLY £ 19.95

CLIP ART CD

Over 550megs of Clip Art for Amigas and PCs. The most comprehensive collection of Clip Art ever for the Amiga range of computers. In total over 26,000 files. The following formats are catered for, B&W Iff Bitmap, Coloured Iff Bitmap, Proclips, EPS, Pagesetter, Pagestream, IMG, Corel Draw and coloured brushes. All are ready to use and easily accessible in subject directories.

CONTENTS OF CLIPART CD

15,000 + Mono Bitmap & 1300 Coloured
1500 EPS, 6900 IMG, 93 Pagesetter
290 Pagestream, 86 Proclips, 120 Corel
98 Printshop and 640 Brushes for Dpaint

A perfect companion for any DTP work.

Clip Art CD only £ 9.99

Amos CD

THE OFFICIAL AMOS PD LIBRARY ON COMPACT DISC

The Official Amos PD Library is the largest source of Amos related source code and programs in the world today. The library is run by Len & Anne Tucker and is endorsed by Europress Software, the publishers of Amos and Amos Pro. This compact disc contains the entire library from disk 1 to 620, each one arranged in it's own directory and catalogued. The disc contains in excess of 33,000 files with over 1600 Amos source code files, 100 sprite banks, 260 Ctext banks, 800 samples, numerous music banks and several extensions to Amos & Amos Pro. This CD is truly a testament to the immense following that Amos and Amos Pro has achieved in the past few years and represents thousands of man hours of writing Amos code which will prove to be an invaluable source of help and tuition to the Amos user. The Amos PD Library contains many games and Utilities which will prove interesting to the Amos user and non-Amos user alike. Imagine the entire contents of a PD. Library on one CD.

Compatible with all Amigas

THE OFFICIAL AMOS PD LIBRARY

An immen amount Amos Co for only

£19.9

FONTS CD

A complete CD dedicated to Fonts for the Amiga range of computers. Also PC compatible. Many formats are catered for, Adobe, CG Fonts, Coloured, Postscript, Prodraw, IFF, PCX, Pagestream, Truetype, Calamus and GDOS. Adding up to the most complete CD of Fonts for the Amiga ever. In total over 18,000 files in 900 directories. All ready to use and easy to load directly from the CD.

CONTENTS

2000+ Adobe & CG with PS Fonts
500 Bitmap, 190 Coloured, 240 Iff
139 Pagestream, 24 Prodraw
500 Truetype, 132 PCX
300 GDOS & 230 Calamus

AMIGA & PC Compatible

ONLY £ 9.99

SOUNDS TERRIFIC

A double CD pack containing over 1.2 Gigabytes of musical and sounds data for the Amiga and IBM PC computers. It all adds up to the most complete collection of sounds on any platform and will form vital part of any musicians CD collection.

CONTENTS

4600 Modules, 14,000 Samples
568 Sonix Scores &
4500 Instruments
302 Octamed/Med Modules
1190 Midi Files
1552 Voc & 642 Wav Samples
Utilities for both Amiga & IBM PC
Amiga and PC Compatible

ONLY £ 19.95

Assassins Ultimate Games CD

650 + games for the CD^{32}, CDTV & Amiga CD. Ready to run from a simple MENU system. 100% CD^{32} compatible. Also includes Assassins floppy disks 1 to 200 archived easily copied back to floppy. Workbench, Parnet & Sernet included.

ONLY £ 19.95

Aminet 3 ***£ 19.95***
1.1 Gigabytes of data 1800 Applications 200 Games, 500 Songs 350 Demos 250 Images

Aminet 4 ***£ 19.95***
1.1 Gigabytes of data over 330 megs of new files since Aminet 3. The latest from Aminet

Aminet Box Set ***£ 34.95***
4 CDs containing all of the files from the Aminet site. Includes new files not released.

Meeting Pearls ***£ 19.95***
600mb of top quality freeware. Utilities, images, music, games, and a lot more.

17 Bit Phase 4 ***£ 19.95***
The very latest disks from the 17 Bit PD. library. Contents are in DMS format.

LSD CD 1 ***£ 19.95***
Complete with the LSD Legal Tools. Plus Music, Images & far, far more.

LSD CD 2 ***£ 19.95***
This ones so new and hot we haven't even got it yet. Rest assured it's very up to date.

Demomania 1 ***£ 19.95***
600 mb of the hottest European Demos. A CD with a seriously bad attitude awaits you.

Hottest 4 ***£ 19.95***
Disks 3001 to 4000 from the PD Soft Library. Contents are Games, Demos, Images etc.

Illusions in 3D ***£ 9.99***
3D programs & images for the IBM PC and the Amiga. Random Dot Stereograms abound.

Utilities 1 - 1500 ***£ 19.95***
The utilities collection of disks from the PD Soft library. Over 650 MB of data in DMS.

Professional Gifs ***£ 19.95***
Over 5000 GIF images on many subjects. Selected as the best examples in the World.

CDPD IV ***£ 19.95***
Fish 891-1000, AM/FM Collection, 600 MB of graphics, tools, music & fonts.

Euroscene ***£ 14.99***
Drawn directly from Internet. 600 MB of Demos and Music from the FUNET archive.

Desktop Video ***£ 14.99***
Objects, Textures, Fonts, Images & Video utilities make this CD a must buy for video use.

C.A.M. ***£ 24.95***
950 disks from the Club Amiga Montreal PD Library. Original content on 2 CDs.

Grafix Sensations ***£ 19.95***
Raytracing Tools & Objects for Lightwave and Imagine users. Textures also included

Spectrum Sensations ***£ 19.95***
Spectrums Emulators for many platforms. With 100's of games. Regularly updated.

Light Rom ***£ 39.95***
3D Objects, Images, Scene files, Textures & Surface Attributes for Lightwave users.

BCI Net ***£ 19.95***
Custom built interface accesses over 1 Gig. of files on many subjects from the Internet. Great

VIDEO CD

Now Available

Weird Science now stock a large range of Video CD titles. A small sample is listed below.

Addams Family Values 19.99
The Firm (3 CDs) £ 19.99
Naked Gun 1 £ 17.99
Silver & The Krays £17.99ea.
James Bond Colection £49.99
Coming to America £ 17.99
A Fish Called Wanda £ 17.99
Ghost & Star Trek 6 £15.99ea.
Waynes World £ 15.99
Top Gun £ 15.99
Airplane & Alive £ 17.99ea.
Queens Greatest Flix £ 24.99
(NOTE. FMV card required)

£ 19.99

£ 17.99

ZAPPO CD ROM DRIVE

Double Speed drive for the PMCIA slot on the Amiga 1200

The Zappo CD Rom drive for the Amiga 1200 provides full CD capability to the Amiga with the ability to read computer, music and photo CDs. CD32 emulation enables most CD32 titles to work with this system.

£ 229.99

includes 5 game CD32 Joypad and any TWO Weird Science Compact Discs

Network CD

SIMPLE NETWORKING TOOLS FOR AMIGA CD

The Network CD sets up a link between a CDTV or CD32 and any other Amiga. The CD32 or CDTV acts as a remote drive for your Amiga, allowing access to the vast pool of data available on CD Rom. The CD32 cable also available uses the AUX socket of the CD32 and comes complete with a keyboard pass through, thus still maintaining the ability to connect FMV or SXI addons. Network CD sets up a Workbench environment and disables the reset function, allowing the CD to be changed and access to any other ISO9660 CD.

CONTENTS

Parnet & Sernet
NComm & Term
Twin Express
Fred Fish 800 to 975
Amos PD 478 to 603
74 Utility Disks
PhotoCD Conversion
500 Images in 256 cols.

Network CD £ 14.99
CD^{32} Cable £ 19.95
Parnet Cable £ 9.99

NEW RELEASE FROM Weird Science

CD ANIMATIONS

CD over Gigaby for £19.9

Animations of all types and sizes on th packed Double CD set. All the animation are ready to run directly from an Ami Guide menu system. Full instructions a included on the Guide. This CD Rom s contains some of the most stunning artis work on both the Amiga and IBM PC a most of the animations will work on bo platforms. Fire your imagination for £19.9

AVAILABLE FROM ALL GOOD STOCKISTS

TRADE ENQUIRIES WELCOME

Telephone Orders
0116 234 0682
Access & Visa Welcome

Weird Science
Tel. 0116 234 0682
Fax. 0116 236 4932

1 Rowlandson Clos
Leicester
Leics. LE4 2SE

U.K. Postage on CDs is £1.00 for the first item and 50p for each item thereafter. Next Day Delivery for Zapp CD Roms is £ 6.00 in the U.K.
For International orders please Telephone or Fax first.

The good, the bad and the ugly

Gareth Lofthouse and Adam Phillips bring you our regular review of the latest tide of CD releases. This month there's the usual mixed bag plus a special focus on Amiga educational CDs

More! More! More!" cry the CD-ROM owners, hungrily awaiting the next gleaming gigabyte disc of useful utils, thrifty tools or dynamic demos. At least that's what the distributors seem to believe, as once again another host of releases comes up for *Amiga Computing*'s scrutiny.

One of the main advantages of CD is it allows for multimedia applications with memory-greedy graphical and audio sections. Unfortunately, despite the growth of the CD market for the Amiga there's been a dearth of this type of product that has yet to be corrected.

Nevertheless, in addition to the usual mixture of sights, sounds and utilities, we've focused on the few multimedia titles that are available. Let's hope it will encourage developers to come up with some more multimedia software for the growing hoards of CD-ROM enthusiasts in the near future.

Weird Science Animations

As is becoming the fashion in this quantity-obsessed field, Weird Science's animation collection comes on two discs. The proclaimed purpose of the compilation is to show owners how the experts make use of the best animation tools available – in other words it's primarily just for enjoyment.

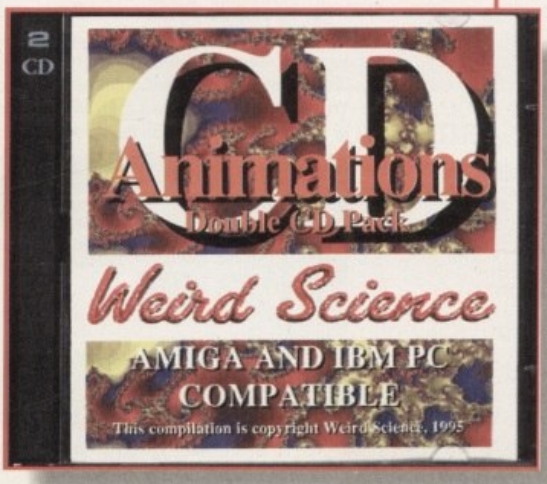
A viewer has been provided, so it's possible to view all the anims directly from disk providing the user has enough RAM. However, some of the files need up to 10Mb of memory, so you're not going to be able to view everything on the basic Amiga or CD32.

The first disc is reasonably well organised into a number of separate drawers, with space set aside for animation works by the reputed Tobias Richter and Eric Schwartz. Unfortunately, many of the Richter animations date back to the '80s and are less than impressive when compared with the sort of material that can be created on packages such as LightWave these days.

The Schwartz animations are comparatively successful, with a good range of his Aerotoon series to look at. Again, however, this is old stuff and parts of it have appeared elsewhere. A lot of the larger animations were created in Moviesetter, a powerful but old program that leads to problems in itself. New machines like A1200s and 4000s have trouble making these cartoons work successfully.

Other familiar files are the animations of VistaPro-created landscapes – the ones which send the camera swooping down into canyons and skimming over mountains. These were spooling directly from CD, and though they were jerky with a dual-speed drive, they should run more smoothly when used with a triple or quad speed. The second CD is less well organised than the first, being a general and alphabetic directory of animation files. Ploughing through this lot feels more like a hit and miss affair than is usual with CD libraries.

Basically, this package is about fun and there is some enjoyable material to be found for the patient searcher. However, the majority of the anims are rather disappointing or outdated, a fact which would put it fairly low on my CD shopping list.



The bottom line

Product: Weird Science Animations
Price: £19.95
Supplier: Weird Science
Tel: 0116 2340682

Ease of use	**9**
Implementation	**6**
Value for money	**7**
Overall	**7**

Grolier CD Encyclopaedia

This is another disc that has been available for some time, and one which, once again, should work with the standard Amiga range. We had no problems running it on our A4000, though using it with the Squirrel requires users to run it off Workbench.

The CD contains the complete text from the 21-volume Grolier Encyclopaedia combined with over 2000 photographs and illustrations to bring the information alive. In addition to the colourful visual content, many of the program's entries are accompanied by sound samples such as excerpts from famous speeches and musical compositions, or animal sounds such as various bird calls.

SIMILARITIES

The interface is similar to that found in the other educational CDs reviewed, except it also features a powerful search facility. Entering text to search for is always slightly inconvenient using the CD32 because of the absence of a keyboard, but once this is done it will scan through the package's 10,000 word database remarkably quickly and give you a list of connected articles.

Along with the advantages of its presentation and diminutive size in comparison to a printed encyclopaedia, the Grolier Electronic encourages curiosity in its users because of the cross-referencing tools included. Articles lead on to related topics, or you can click on words in the text and perform a search at the press of a button.

Yes, it's been around for a while now but it remains an impressive product regardless. Considering the price, anyone with a CD32 should invest in this package and hope that serious releases of a similar quality will appear for their machine in the near future.

The bottom line

Product: Grolier Electronic Encyclopaedia
Price: £29.99
Supplier: Epic Software
Tel: 01793 490988

Ease of use 9
Implementation 8
Value for money 9
Overall 9

Insight Dinosaurs

Educational tools targeted at CD are few and far between so far on the Amiga, and in my mind Optica's Dinosaurs remains one of the best examples of what can be achieved on the platform with a little effort.

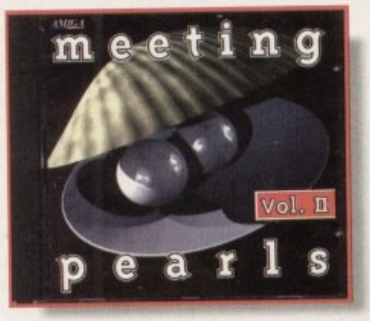
While it's a learning experience, the makers have remembered the first rule of computer education, by which I mean it should be fun to use. Consequently, the emphasis of Dinosaurs is on colourful pictures and sound combined with an easy-to-use interface.

Dinosaurs was actually designed for the CD32 or the CDTV, but we had no problem running it from a CD-ROM drive using Squirrel emulation software, and this should now make it of wider appeal to a new market. The CD's menus are far more visually appealing than on the other educational packages reviewed here, thanks to the use of large buttons with well drawn dinosaur packages representing various topic areas.

The CD is divided into three main sections. First the Life of a Dinosaur includes an explanation of hunting patterns, diet and digestion, and the natural attack and

The interface is about as visually appealing as you could hope for, but it's also very simple to use

Meeting Pearls



Another general collection of utilities, games, graphics and the rest, this CD comes to us from Germany and is the second in the series. Created by programmers who gather for these meetings, the relative low price of this compilation comes down to the fact that all the programs were provided free of charge.

The makers have tried to give Meeting Pearls a particularly user-friendly front-end, but unfortunately it hasn't quite worked. Hypertext pages, for example, lead on to various categories on the CD, but they are so bogged down with graphics that getting anywhere can be a very slow process.

There doesn't appear to be any guide summarising the contents of each file, an omission that leaves it lagging behind the Aminet CDs when it comes to ease of use.

On the plus side, it is an unusually low-cost CD that includes some interesting material, with 25Mb of terminal programs, 9Mb of music programs and 10Mbs from 'The Party '94' featuring as just a few of the disc's highlights. Despite this, the inferior organisation of the CD and the fact that there's too much untranslated German left me rather lukewarm about Meeting Pearls. This one's probably best left for the CD addicts or those with serious cash flow problems.

The collection includes a bit of everything - here we have an example from the pix drawer

The bottom line

Product: Meeting Pearls
Price: £9.99
Supplier: Schatzruhe
Tel: 0049 6171 85937

Ease of use 7
Implementation 6
Value for money 9
Overall 7

defence mechanisms the creatures evolved. The second section, on the other hand, expounds on the main theories behind the extinction of the dinosaurs. Finally, the third section is an index for immediate access to information on a particular species.

With a dinosaur quiz and chinese puzzle thrown in for good measure, this is an excellent learning tool for children and, for that matter, one which will keep the parents intrigued for a fair while too.

The bottom line

Product: Insight Dinosaurs
Price: £39.99
Supplier: Optica
Tel: 01455 558282

Ease of use 9
Implementation 9
Value for money 9
Overall 9

Insight Technology

In contrast to Dinosaurs, Technology is not a topic that will the have average child buzzing with excitement and curiosity. All the more reason to make a professional job of the CD and use the potential of the medium to liven the subject up.

Unfortunately though, it was made by the same people as the Dinosaurs CD – this product came out earlier and lacks a lot of the polish of its successor. Even on booting the CD up, the menus look rather drab in comparison. It all works in much the same fashion as Dinosaurs but the user has to scroll through a lot more grey text indexes here. Then, when you do get to the sparse video sections, it's of a poor quality with an often all too brief voice-over to be informative.

Click on the tractor picture, for example, and the voice-over tells you nothing more than that the tractor replaced animals as the most important farming aid. This is followed by a three-second film of a tractor turning around in a field – basically it's pretty uninformative.

In fairness, the animated diagrams of how the machines work is relatively helpful. This, however, fails to make up for the overall weakness of a package tha was dull in the first place and which is beginning to look very dated now.

The bottom line

Product: Insight Technology
Price: £39.99
Supplier: Optica
Tel: 01455 558282

Ease of use 8
Implementation 4
Value for money 6
Overall 6

Town of Tunes

While the title might make the average consumer flinch with embarrassment with a capital E, this CD from the Scandinavian CD-ROM Publishers is an interesting collection of sound modules, midi samples and rather risqué pictures. The most hyped contents of the CD are the 960 modules forming a solid library of all types of music. Quality varies from module to module – some hark back to the day of C64 games music while others use the latest electronic gear to produce their synthetic sound.

Zip files have been included for BBS use to aid uploading and downloading times, and there's also some special mixes of popular tunes including groups such as 2Unlimited, Snap and Blackbox.

Other sound files consist of midi and sample data, of which there are several hundred to choose from. As something of a strange bonus, you can also plough your way through song lyrics from bands such as Aerosmith, ACDC, Anthrax and solo artists (I use that term loosely) such as Paula Abdhul.

It's good to see that the necessary players have been included, but it would have been nice if the producers had given the front-end the same ease of use as the Aminet CD collection, where viewers and sound players are already up and ready to run and listed in hypertext-like links for selection. Maybe next time.

On a more cautionary note, the CD also includes promotional material for other products produced by the Netherlands team. These include soft porn pictures of Japanese ladies clutching at various parts of their anatomy and some rather surprising/shocking (depending on your view point) pictures of Manga-style explicit material.

While I would assume the material is not illegal in this country, parents should be advised that the disc does contain such material and distributors should put some kind of label on the front of the package to warn potential buyers.

This aside, Town Of Tunes is a rather useful collection for musicians needing instantly gratifying tunes, samples and other oddities to play round with. Recommended.

The bottom line

Product: Town Of Tunes
Price: £19.99
Supplier: 17 bit Software
Tel: 01924 366982

Ease of use 7
Implementation 8
Value for money 8
Overall 8

Lightwave Enhancer

When Imagine Enhancer surfaced on the scene a few months ago, it dropped jaws all over the Amiga community with a range of objects and backgrounds to inspire the best 3D artists. With the arrival of Lightwave Enhancer from Oberland, hopes were high that this CD collection of objects, macros, maps, brushes, backdrops, fonts and more would prove equally as successful.

The first hurdle to overcome once the CD is up on the Workbench is the installing of the relevant libraries into Lightwave. This is a hassle which doesn't happen with the likes of 3D Arena from Almathera – there was various going back and forth as I tried typing in where the files should go. Like the Imagine Enhancer it can be overcome, but there really shouldn't be any need for fiddling round installing and copying for this price.

Get past this though and you have access to a multitude of different facilities to enhance the number one animation package. Let's get the disappointments out of the way first though – there are seven objects on offer which are of a very high quality and rather familiar to the owners of the Imagine Enhancer CD. Unfortunately, it's a small number to have – the large library of furniture on the Imagine Enhancer CD has not been ported across to this version.

On the plus side, 25 macros have been included for use in Modeller which produce a variety of differing effects, from exploding the faces of an object and turning any picture into a reflection, to creating a Wavemaker-like storyboard.

Easy to operate and fully explained via text on screen as you select them, these are one of the most valuable sections in the whole CD. There are eight fonts that can be loaded straight into layout for immediate manipulation – no need to extrude any of them.

The Magazine font, for instance, boasts an Art Deco style and is of a very high quality. Then for the texture and backdrop freaks, the CD has over 150 examples displayed in a variety of different screen sizes.

Summing up, if you want lots of objects to play with then go for Almathera's 3D Arena, but for textures, macros, animmaps and lots of other odds and sods to make life easier, then Lightwave Enhancer is a very promising CD – just watch out for the rather substantial price tag though.

The bottom line

Product: Lightwave Enhancer
Price: £40 approx.
Supplier: 17-bit Software
Tel: 01924 366982

Ease of use 6
Implementation 8
Value for money 6
Overall 7

HiQ Limited

The Storage and System Design Specialists Tel +44 (0)181 909 2092

The Greatest Drive since the Model T Ford

Well the wait is over and the future has arrived in the shape of the new Panasonic PD System Optical drive. This unit is a Hybrid 650Mb, Quad speed CD-ROM and Optical Read/Write system. (Yes, you did read that correct!). Now you can read all of your favourite CD Titles at over 600Kb per second and by inserting the low cost 650Mb cartridges you have 650Mb of storage space always on line just like a conventional hard drive.

Internal Drive Unit	**£569.95 inc. VAT**
650Mb Cartridge	**£49.95 inc. VAT**
External Case	**£59.95 inc. VAT**

Panasonic Optical Storage

Multimedia PowerStation options for all Amigas

PowerStation Specifications:-

1. 200 watt power supply for complete Power Systems.
2. Good looking high quality steel construction.
3. Five drive bays, various mounting configurations.
4. Ideal monitor stand and cables slide underneath.
5. High speed Squirrel SCSI2 interface from Hisoft.
6. Dual speed, highly CD32 compatible CD-Rom drive.
7. Power and Hard Drive LED's.
8. Headphone output and external amplifier connector.
9. Speaker mute button, and ext. speaker on button.
10. Twin 10 watt speaker system.
11. Mix CDRom and Amiga audio outputs thru speakers.
12. Volume, Bass, Treble, and Balance controls.
13. Computer speed indicator, 2 speed switchable.
14. DOES NOT VOID WARRANTY.

!! HiQ STAR BUY !!

A1200 IDE 420Mb

Only £149.95

A1200 Cable Pack **£20**
200w Power & Cable Pack **£80**
Post & Packing **£6** (CityLink)

! Free fitting for all personal callers !

Hi-Fi quality active stereo speakers

(Suits all Amigas)
Specifications:-

1. 80 watt active stereo
2. Built in amplifier
3. Colour matched
4. Volume, Bass and Treble
5. Excellent Bass response

Price only £49.95 P&P £7.00

PowerStation pack Prices

Includes 2 x SCSI CDRom + Squirrel

Stereo speaker version	£329.95
Desktop version	£299.95
Tower version	£299.95
Carriage	£12.50

FREE CD OFFER

PowerStation Case Prices

includes internal Audio & SCSI Cables

Stereo speaker version	£129.95
Desktop version	£99.95
Tower version	£99.95
Carriage	£12.50

Squirrel SCSI Interface

© Copyright Hisoft 1994

Need we say more £54.95 +P&P

SCSI2 3.5" Hard Drives and other SCSI Prices:-

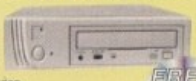
Quantum Maverick 270Mb Drive	£149.95
Quantum Maverick 540Mb Drive	£199.95
Quantum Lightning 730Mb Drive	£229.95
Micropolis 2.1Gb Drive	£869.95
Micropolis 9.1Gb AV Drive	£2000.00
Conner Tape Backup 2Gb	£499.95
Internal CD Rom 2 x speed	£139.95
Carriage per shipment	£7.00

QUAD SPEED Add £70.00

HiQ Stand Alone CD Rom Drive

Specifications:-

1. Dual speed SCSI
2. Proper steel chassis
3. Built-in power supply
4. Tray loading CDs
5. CD32 emulation software
6. Includes Hisoft Squirrel



Price only £229.95 P&P £7.00

FREE CD OFFER

All Prices include VAT

HiQ Ltd, 176 Kenton Lane, Harrow, Middx, HA3 8SU.

EMail address:- Compuserve 100432,711

MasterCard VISA

Fax/BBS 0181 909 3885 **Tel 0181 909 2092**

Subroutine communication

assembler language

Part 12

Perplexed by parameter passing? Struggling with the stack? Never fear - this month's subroutine-oriented help from Paul Overaa should help demystify the issues

Most programs need to perform a variety of different tasks and many of these, because they concern operations that need to be repeated many times, will be written as subroutines. As well as the fact that this approach saves memory space, there are other benefits to be had: A subroutine that has been written to be generally useful will, after suitable preliminary testing, be able to be used by programmers, safe in the knowledge that it does what it is supposed to do and is error free. In fact, maximising the 'utility value' of such routines is a good design objective because the more generally useful a piece of code is, the more the programmer will find uses for it.

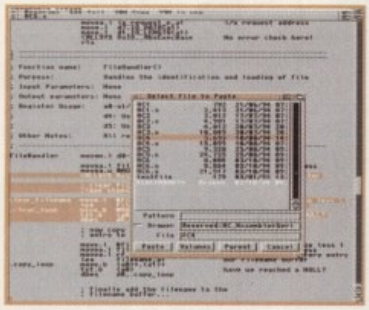
Similarly, maximising the use of either system supplied or self-written subroutines makes program development quicker, and this re-use of tested code also reduces the chances of bugs (in fact you can almost guarantee that any bugs that do occur in your program will come from the recent code you've written rather than any library subroutines being used).

Being able to break up a complex programming task into a series of subroutines is probably one of the most important skills a programmer can learn. However, in order to build programs in this fashion it's also necessary to be aware of the various ways in which information can be passed to, and retrieved from, the subroutine units you create. Over the next couple of issues I'll be going through some of the basic methods available and having done that, will make a start on the design and coding of a 680x0 project that will show the various techniques in action.

The 680x0 chips used in the Amiga provide two basic methods for transferring control to a subroutine. Firstly, there is a jump-to-subroutine instruction, whose mnemonic is jsr, which produces an unconditional jump to a specified memory address. This instruction behaves just like a normal unconditional jump (jmp) instruction, but in addition to placing the specified jump address into the program counter, it also saves a return address. A branch-to-subroutine (mnemonic bsr) instruction provides an alternative relative addressing form of the same subroutine call mechanism using an 8 or 16-bit displacement from the program counter rather than an absolute address.

MEMORY DEPENDANT

Any subroutine instruction sequence requires the processor to 'remember' the address of the next instruction to be executed once the subroutine has completed its job. By convention, this address is called the return address and since subroutines may call other subroutines in the course of their work, a scheme is needed which allows these addresses to be stored and retrieved in an orderly fashion. The data structure used is called a 'stack' and on the 680x0 register a7 is used as a stack pointer (most assemblers, including Devpac, allow 'sp' to be used as an alternative name for register a7).



Modern day assembly language environments like Devpac make it particularly easy to read in and re-use existing routines

680x0 stacks grow downwards in memory and since the stack pointer always points to the last data item added to the stack, this means that before adding new items it is necessary to first decrease the stack pointer by a number equivalent to the byte-size of the object being stored (so that it properly points to the storage locations to be used next).

The jsr and bsr instructions therefore decrease the stack pointer by four, store the return address, and then place the specified jump location into the processor's program counter. The main body of the subroutine will execute just like any other piece of code, but the last instruction of the subroutine will be a return-from-subroutine (rts) instruction which causes the return address to be placed into the program counter. The net result is that the processor, having jumped to and executed a piece of suitably written subroutine code, returns to the instruction immediately following the subroutine call.

In order to be really useful, subroutines must be written so that they are as general as possible. There is, for instance, little point in writing a subroutine that prints the ➤

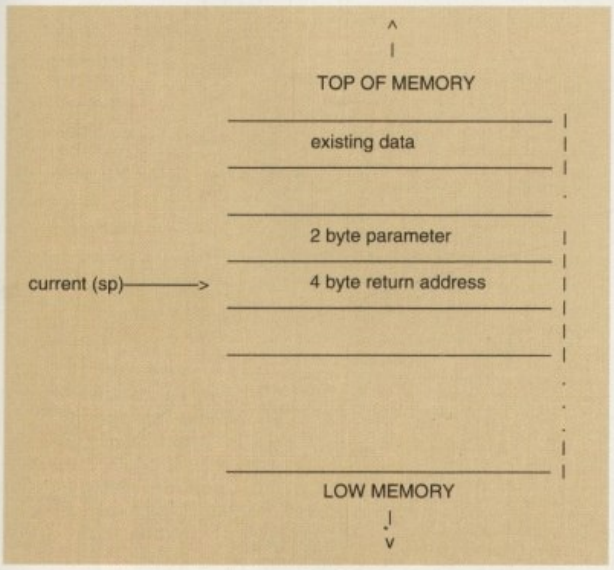


Figure 1: Position of the pushed stack parameter after the subroutine call

message 'Please type your name.' It would, however, be useful to create a subroutine that could display any required text message.

This brings us to one of the most interesting areas of subroutine use – namely, how information can be provided to the subroutine and how any results might be passed back. Data items to be passed to a subroutine are called 'parameters', so the act of arranging to transfer these parameters to the subroutine is commonly known as 'parameter passing'.

There are only two fundamental ways in which data can be passed to a subroutine: Parameters may be placed in the 680x0's registers, or they can be stored and retrieved from memory. The first option is both simple and fast, and since pointers to larger objects, such as strings and other blocks of data, can be used (i.e. the subroutine can be passed the address of the object rather than the object itself), there is little you cannot do. Similarly, the subroutine may return any results (or a pointer to those results) in a register. Examples? You need look no further than the Amiga's run time libraries – Exec, Intuition etc. all use this register-based approach.

FLEXIBILITY

Memory-based parameter passing is inherently slower but, at the end of the day, has the advantage of being infinitely more flexible. To start with there are a variety of simple schemes available – for example, parameters can, if they are known at assembly time, be embedded in the code immediately after the subroutine call itself (providing the return address is adjusted accordingly by the subroutine by adding to it an amount equal to the number of bytes of parameters). The use of global variables, i.e. static locations that can be read from any routine anywhere in a program, is another option that is used extensively.

One powerful memory-oriented approach of particular importance is stack-based parameter passing. The idea is that before you make your subroutine call you push the parameters the subroutine needs onto the stack. These values are collected and used by the subroutine itself and then when the subroutine returns, the stack is then 'adjusted' so that those parameters are effectively removed. Stack-based paarameter passing can be done in several ways: The 680x0's move instruction can, for example, be used in conjunction with indirect addressing and autodecrement to push a value onto the stack like this:

```
          move.w      some_value,-(sp)
push a parameter
          jsr         MySub
```

What must be remembered here, of course, is that after you have pushed the parameter onto the stack, the jsr instruction will have subsequently pushed a return address onto the stack so the final stack arrangement in memory will be looking something like that shown in figure 1. This means that the subroutine needs to look not just at the 'top' of the stack but actually 'into it' in order to extract the parameter. Since the return address is four bytes long we need to use a displacement of 4 like this:

```
MySub     move.w 4(sp),d0          subroutine now
has parameter in d0.
          <main body of subroutine>
          rts
```

The above fragment copies into d0 the two bytes of data immediately above the return address. The snag now is that once the subroutine has returned, the stack pointer is left pointing to the parameter placed on the stack. This situation cannot be left as it is because the integrity of the stack, as far as other items already on the stack are concerned, would be destroyed.

As the parameter is no longer needed, there is little point in removing it via a move (sp)+,d0 type instruction – instead it's faster to numerically adjust the stack pointer so the item is effectively ignored. The code fragment that pushed a word (2 byte) parameter onto the stack would, in reality, then have to include this sort of stack adjusment:

```
          move.w      some_value,-(sp)
push parameter
          jsr         MySub
          addq.l      #2,sp        clean-up stack
```

Needless to say, if you had pushed a long word (4 byte) parameter, a stack adjustment of 4 would have been needed. Incidentally, the Amiga's amiga.lib linker library routines use this type of stack-oriented parameter passing, and it is also a method used by many high-level languages (including C)!

> A subroutine that has been written to be generally useful will, after suitable preliminary testing, be able to be used by programmers, safe in the knowledge that it does what it is supposed to do and is error free

Register preservation and restoration

It is normally advisable to create subroutines which do not alter the contents of any temporary workspace registers they use. The best way to do this is to preserve those registers by pushing their contents onto the stack and restoring them just before the subroutine returns. One way of doing this would be to push/pull the contents of each register singly using instructions such as:

```
move.l          a6, -(sp)          preserve a6 on stack
move.l          a5, -(sp)          preserve a5 on stack
move.l          a4, -(sp)          preserve a4 on stack
          <main body of subroutine>
move.l          (sp)+,a4           restore contents of a4
move.l          (sp)+,a5           restore contents of a5
move.l          (sp)+,a6           restore contents of a6
```

but in actual fact, a special 'multiple move' instruction exists, called movem, which allows this transfer to be done more efficiently when two or more registers are involved.

The easiest way to describe the use of the instruction is to show you some examples: For example, to save on the stack the full 32-bit contents of registers d0 through d7 and a0 through a3, we would write:

```
movem.l         d0-d7/a0-a3, -(sp)
```

and to restore the registers (i.e. pull them back off the stack) we'd use:

```
movem.l         (sp)+,d0-d7/a0-a3
```

As far as placement in a subroutine use is concerned you'll see these instructions used like this

```
MySub           movem.l                  d0-d4/a0-a3,-(sp)    preserve registers
                <main body of subroutine code>
                movem.l                  (sp)+,d0-d4/a0-a3    restore registers
                rts
```

When registers are preserved like this, routines which are expecting parameters to be passed on the stack need to allow for the fact that more items have been pushed onto the stack after the return address. In the above example, nine 32-bit registers are preserved (d0, d1, d2, d3, d4, a0,a1, a2 and a3) so a further 36 bytes have been placed on the stack.

If we go back to the stack-based parameter passing example mentioned earlier and add the above register preservation code, the offset now needed to extract the word parameter variable would be (9 x 4) + 4, i.e. 40, so the subroutine entry code would then be based on this type of framework:

```
MySub           movem.l                  d0-d4/a0-a3,-(sp)    preserve registers
                move.w                   40(sp),d0 parameter now in d0
                <main body of subroutine code>
                movem.l                  (sp)+,d0-d4/a0-a3    restore registers
                rts
```

As you can see from this month's discussions, parameter passing is quite a large topic in its own right. In fact, there are still other techniques to come, although I'm afraid you'll have to wait until next month for details.

E&OE 02/05/95

White Knight Technology

THE PROFESSIONAL AMIGA SPECIALISTS
SUPPORTING SERIOUS USERS

PO BOX 38, WARE, HERTS, SG11 1TX

2.5% Surcharge On Credit Cards. NOT SWITCH or VISA-DELTA

01920-822321

9.30am - 6pm Monday - Friday

FAX 01920 822302

OUR PRICES INCLUDE VAT
Except Where Otherwise Stated

NON-LINEAR EDITING With The BROADCASTER ELITE

This Zorro III card performs the major functions of a **Broadcast Quality, On-Line, Non-Linear, Digital** Video edit suite (CCIR601 720 x 576 resolution) . It provides REAL-TIME, FULL MOTION JPEG (50 fields / second) Capture & Compression, direct to disk. The video can be edited and played back in REAL-TIME, at 50 fields/sec in broadcast quality - direct to Betacam SP etc. The board has full LTC and VITC timecoding. It also interfaces with the AD516 Studio 16 and NEW Amadeus 16-Bit audio cards for simultaneous audio and video editing. It requires an Amiga 4000 with full 68040 processor, large SCSI-2 hard drives, and fast SCSI-II controller.

Complete Systems - From £11,950 plus VAT
BroadCaster Elite Card - £ 4,098 plus VAT

System Requirements (minimum) :-
Amiga 4000-030 or 4000-040 (2 +8Mb,0.5Gb HD)
Broadcaster Elite Card with Producer Software
Warp Engine 28MHz with SCSI-II or Fastlane Z3
2.1Gb Barracuda Fast SCSI-2 HD (For Video)
Sunrize AD516 or Amadeus (Audio Card)
MultiSync & PAL Monitors

GIVING FULL BROADCAST QUALITY, ON-LINE, NON-LINEAR, VIDEO & AUDIO EDITING !

All systems are fully configured and tested and are supplied with limited telephone support. Technical support is additional for purchase of individual cards.

FOR MORE INFORMATION, OR TO ARRANGE A FULL DEMONSTRATION, PLEASE CALL

Dealers - We are Exclusive UK Distributors

Other Professional Video Products Available

HIGH-SPEED RENDERING With The ALPINE - 275MHz DEC Alpha Based Workstation

The Alpine 275 system is a must for any professional 3D animator. With floating point performance of upto 20 times that of an Amiga 4000 with 40MHz 040, even the most complex frames are rendered in record time.

Specifications : Tower Case housing a 275MHz DEC Alpha AXP motherboard with 128-Bit data path to both the 2Mb secondary cache and DRAM, Fast SCSI-II interface with 1Gb SCSI-II Hard Drive, High-Speed 24-Bit (4Mb) Video card, 64Mb DRAM (exp. to 1Gb onboard), Twin speed CDROM, Ethernet Card, Remote System Diagnostics and Windows NT.

All systems are covered by a 2 year return to base warranty (parts & labour). DEC On-Site maintenance is also available.

Typical System Cost is £ 8,495 + VAT

REAL 3D (V2)	for Alpine	£ CALL
LIGHTWAVE 3D (V4)	for Alpine	£ 637 + VAT
ELASTIC REALITY	for Alpine	£ CALL

Performance Comparisons :-

Transactions per second

	Alpine 275	Cobra 275	ALR 90
CPU	Alpha AXP	Alpha AXP	Pentium
MHz	275	275	90
Integer	21.6	21.2	8.7
FPoint	42.8	36.1	6.4

Typical Lightwave Frame

Amiga 4000/040, 25MHz, 18Mb	2h 10m 30s
Amiga 2000, 33MHz 040, 66Mb	1h 5m 35s
Amiga 3000, 40MHz 040, 34Mb	43m 19s
ShaBlamm 100MHz MIPS, 32Mb	14m 36s
Alpine 275MHz ALPHA, 64Mb	6m 35s

CALL FOR DETAILED SPECIFICATIONS, PERFORMANCE TABLES AND PRICES.

A4000 ACCELERATION

CYBERSTORM 50MHz 68060

Accelerator For The Amiga 4000 RUNNING AT OVER 80 MIPS !

Only £ 995

Full Specification Sheet Available

40MHz 68040 Version £ 769
Fast SCSI-II Controller £ 185
I/O Module (SCSI-II, Ethernet & 2Mbit Serial port) **£ 395**

COMMODORE A3640 Card, 25MHz 68040 (As Fitted In Amiga 4000-040) S/H **£ 419**

WARP ENGINE 28 or 40MHz 68040
4 x 72Pin SIMM Slots for upto 128Mb RAM
Built in FAST SCSI-II DMA Interface
28MHz Version (With 68040/25) £ 799
40MHz Version (With 68040/40) £1199

AUDIO PRODUCTS

SUNRIZE AD516 / STUDIO 16

8 Track, 16-Bit, DAT Quality, Direct to Disk Recording. Timecoded Cuelist. Can be used with Bars & Pipes Pro, the PAR etc **£ 999**

TOCCATA 4 Track, 16-Bit, Direct to Disk Recording. With Samplitude Software . Ideal for Vlab Y/C's IFR, or the Vlab Motion Also supported by OCTAMED v 6. **£ 349**

ANIMATION TOOLS

VLab Motion Near S-VHS Real-time JPEG Compression & Playback Video & 24Bit Animation card. **£ 999**

VLab Y/C Real-time S-VHS or HI8 digitiser card **£ 349**

PAR - The Personal Animation Recorder
Output Your 24-Bit Rendered Animations To Video Tape - At upto Broadcast Quality **£1849**
PAR Capture Card £ 999

EMPLANT MAC / PC EMULATOR

Basic Version	£ 245
SCSI or AppleTalk	£ 295
Deluxe (Both)	£ 325
"586" PC Option	£ 99

DELIVERY CHARGES

Express Small £ 6
Medium £ 7
For large items, please call.

HOW TO ORDER

HAVE YOUR CARD DETAILS READY, AND CALL :-
01920 822321
9.30 - 6 Monday - Friday
BY POST :-
CALL FIRST TO VERIFY PRICE AND AVAILIBILITY, BEFORE SENDING YOUR ORDER.

Safe and

Hard Drive breakdown. Considering this is possibly the most devastating disaster that can threaten a computer, you'd think Amiga owners would be taking every precaution possible to protect their valuable files and programs. Yet everyone has a lazy streak, and backing up is about as interesting and rewarding a chore as ironing your underwear. No wonder many of us never get round to doing it.

Backing your system up, however, doesn't have to be as boring as it once was. There are both software and hardware solutions that can help to make the process less daunting, and there are options that should suit everyone's pocket and needs.

Backing up on to floppy is the cheapest way of securing your data, but everyone would have to admit it's a pain in the backside. To back up a 350Mb hard drive on to floppy will require hundreds of disks, not to mention hours of disk swapping.

The fact is, if you're going to carry out this process regularly and you're dealing with a large amount of data, you're going to need a high capacity storage medium and some method of speeding the process up.

When it comes to hardware specifically designed for this purpose, the most economical method is the standard tapestreamer. Using tape resembling that found in video cassettes, these devices can back up an entire hard drive in a matter of minutes. A high capacity tape drive can store 525 Mb of data and should attain a transfer rate of approximately 5Mb per second.

SCARCE

Unfortunately, these mechanisms are hard to come by these days, having been almost entirely replaced by technically superior but more expensive DAT systems. A search through all the usual Amiga distributors failed to reveal anyone who was offering the standard tapestreamer – perhaps your best bet would be to buy one second hand.

If you're a very serious Amiga user with large volumes of data requiring regular backup, it might be worthwhile considering the DAT alternative, though you'll need substantial sums of cash to be able to afford one. A DAT drive will achieve a transfer rate in excess of 10Mbs per second, reducing back up times radically. What's more, they will store between two to nine gigabytes of data depending on how much you're prepared to spend. Anyone who is considering DAT should be well advised to buy from a distributor who can provide Amiga installation and maintenance advice since, as with many SCSI devices, the sort of documentation you get with a DAT drive will probably be

DAT is the dream solution to the back-up problem, but it's only worth the cost for the serious or wealthy user

Video Back-up

Buying a DAT tapestreamer may be the dream solution to the back up problem but let's face it, very few of us are prepared to pay that sort of money for a precautionary device. Does this leave all but the affluent Amiga owner in the position of swapping floppy disk after floppy disk?

Thankfully, the situation is not anywhere near as grim, thanks to Power Computing's Video Backup System. Designed as a convenient, powerful device that works with a standard Video Recorder, it's also economical enough to make sense to even the stingiest Amiga owner.

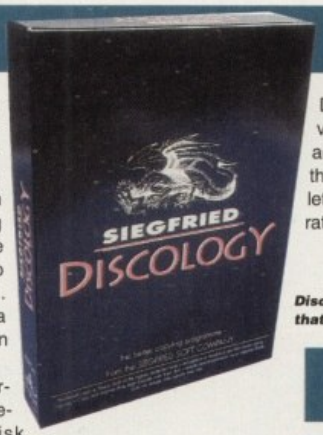
Using this product, a large hard disk or hundreds of floppys can be backed up onto a standard video tape, which makes the storage medium about as cheap as you could hope for – 200Mb can be squeezed onto one four hour tape. The package comes in video-style casing (though you'll have to provide the cassette yourself), and includes either SCART or

Commercial copiers

Backing up your software packages may be less important than securing an entire hard drive's worth of data, but then floppies are more vulnerable to damage than just about any other storage medium. For years, X-Pro Copy was the most popular and respected copying program, but now Siren Software have stopped supplying it and have switched to the new Discology package.

The advantage of commercial copiers over PD counterparts is that they come with a dongle which gives it great advantages in getting around software protection. Many developers protect a program by varying the length of tracks on the floppy – if you try to copy these via a standard AmigaDOS method it won't work because the Amiga will look for 80 tracks of a certain standard length. The hardware that comes with these commercial copiers means that copying is made directly from track to track without any need for them to be read by AmigaDOS, thereby bypassing the problem. Discology is a powerful package which automates the copying process, so you can just keep chucking disks into the drive without having to OK it all the time. Protected Amiga and IBM disks can both be copied.

A high-speed formatting facility, integrated floppy disk compaction, and the ability to copy Amiga high density disks are a few of the extras that make Discology highly appealing. Those who haven't got a virus checker will also benefit from Discology's ability to detect bootblock and link viruses.

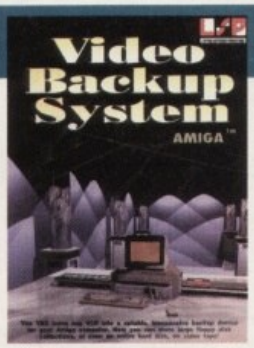


Discology can also multitask, which the last version of X-Pro I saw was not able to do. Small additions like this combine to make Discology the best commercial copier currently available – let's just hope it gets used for back up purposes rather than piracy.

Discology, the disk copier that's set to beat X-Pro

The bottom line

Product: Discology
Supplier: Siren Software
Tel: 0500 340548
Price: £39.99



A flexible back-up option that is mercifully cheap compared to some alternatives

PHONO leads, the Video interface, and the all-important software contained on a single floppy.

The system has a number of helpful features including verification and error correction facilities to optimise the reliability of the process. Naturally, the software allows you to select files and directories to back up, and it's possible to restore selected files off the tape if you don't want to restore the whole lot.

Ease of use is greatly increased by a well organised interface and a short but comprehensive manual which includes helpful illustrations. What's more, the program performs a connection check to ensure the hardware is correctly hooked up for reliable data transmission.

Another plus point is the way in which the software automatically maintains log files which contain the title and counter position for every backup on the tape. Then, when it comes to searching for files, a visual header precedes every file on the tape with title and date details.

Add to that the fact that Power's system will also back up a full Amiga floppy in one minute and restore it just as quickly, even onto an unformatted disk, and this product begins to look like the only sensible back up solution for those with limited funds.

The bottom line

Product: Video Back-up System
Supplier: Power Computing
Tel: 01234 273000
Price: £65 SCART £60 PHONO

aimed at the PC. White Knight Technologies (01920 822321) do a range of internal DAT drives starting at £729 for the 2Gb version.

A final point about DAT is that it can be accessed like a large hard drive using Moonlighter Software's Tapeworm (available from Ramiga – 01690 770304). This works best with sequential data like animations or long pieces of music, although it transfers data much slower than a hard drive and can take up to one or two minutes to find a file. AC

Amiback is one of the most desirable HD Back-up programs you can own, but whether you can get your hands on it is another matter

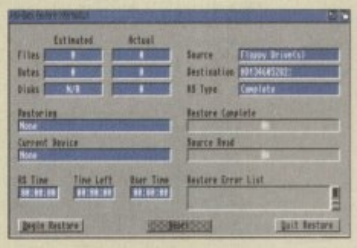
HD Back-up software

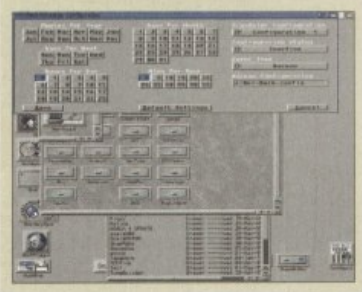
Tapestreamers and DAT are best used with either Quarterback 2.0 or Amiback 6.0, both of which are powerful pieces of back-up software. Unfortunately, the makers of Quarterback went bust and we've not had much luck finding anyone who can supply us with Amiback either.

Nevertheless, these commercial tools are so useful that if you can get your hands on either of them it will be well worth your while. Amiback, for example, can back up a 900k directory in just 47 seconds and has flexibility in terms of its support not only for tapestreamers and DAT, but also floppies and high density floppies.

If you can't get access to these programs it is possible to use HD Backup which is included on Workbench 2.04 and higher, but this is far from ideal. HD Back up is notoriously unpleasant to use with a poor interface, unnecessary complexity of use, and an inability to back up more than one partition or hard drive at once.

There are PD alternatives available – for example, Epic Software's HD Tools includes a back up program (call 01793 490988). A word of warning to those with less technical experience, however, is that there didn't appear to be a read.me file to explain how to use this software.





d secure

Back up or lose it. Gareth Lofthouse reports on some of the safety measures available

Virus killer

An alternative threat to a hard drive crash is the risk of infection by computer viruses. Though these are less talked about than when they first appeared in the late '80s, there are new viruses being invented all the time, mainly with the intention of ruining as many people's systems as possible.

With this in mind, Siren Software have released Siegfried's Anti Virus Pro, a software package that's intended to be the ultimate Amiga aid in the detection and prevention of viruses. When you realise that Anti Virus carries a £40 price tag, the first question that will spring to mind is 'Is it worth it?' considering you can get PD virus checkers for virtually nothing.

Certainly, Anti Virus appears to have just about all the features you can currently hope for from this type of program. Virus searches can be made not only on floppies but also hard drives, RAD or CD, and the software allows for the quick tracing of link and file viruses including trojan horses, worms, bombs, and disk validator viruses. The problem is, however, that though it can do these things and a lot more, Virus Checker 6.53 can match it for just about every facility, yet it can be downloaded for free from virtually any BBS (and you won't even have to upload anything in return).

Another downfall is that Siegfried are trying to combat the new viruses released every month by offering a software update service for owners of Anti Virus, but they are unlikely to be able to beat the monthly revision Virus Checker benefits from.

All in all then, it's hard to justify Anti Virus's asking price considering it doesn't offer much more than its free PD rivals.

The bottom line

Product: Anti Virus
Supplier: Siren Software
Tel: 0500 340548
Price: £39.99

EMPLANT

E586DXSM Emulation Module

The new E586DX emulation module offers a high speed 586DX (FPU, MMU, and new instruction set) emulation with complete low-level architecture support, giving you the ability to run DOS, OS/2, NT, Windows 3.x, and even Chicago! There is support for MDA, CGA, EGA, VGA, SVGA video modes (dependant on hardware, AGA or a supported graphics card is required for VGA/SVGA) , sound, joysticks, floppy drives, hard drives, extended memory, and more! Requires PC BIOS, not supplied.

Macintosh® Emulation Module

The Macintosh emulation module is a 'generic' Macintosh with the speed of the emulation depending on the processor your Amiga is using. An A3000 is equivalent to a MAC IIci. An A4000 is equivalent to a Quadra 900. Support for up to 16 colours is provided for non-AGA machines. A4000 owners can use a full 256 colours! Up to 24 bit (16 million+) colours is supported using third party video boards. Built in multiple file transfer allows for quick and easy transfers between the Amiga and MAC emulation. Support for AmigaDOS devices, Scanners, CD ROM, MIDI, SyQuest removable drives, Printers, Modems etc. Full stereo sound is supported too! Requires Macintosh ROMs (not supplied).

The possibilities with a multi-platform machine are endless. Now you can take advantage of a whole host of great software previously unavailable, and use them to compliment each other. By upgrading your Amiga (extra memory, faster processor, etc) you instantly upgrade your emulation too! All major graphics cards are supported for improved video performance such as: CyberGraphics, Picasso II, EGS-Spectrum, Vivid-24, Rainbow II, Rainbow III, Visiona Paint, Merlin, Retina, Retina Z3, Piccolo, PiccoloSD64, EGS110/24, and OpalVision!

Blittersoft are the exclusive European distributors for Utilities Unlimited, providing full technical support/upgrade/warranty services All emulations require a 68020 or better.

EMPLANT BASIC	**£239.95**
EMPLANT OPTION A (AppleTalk ports)	**£269.95**
EMPLANT OPTION B (SCSI)	**£269.95**
EMPLANT DELUXE	**£299.95**
E586DXSM MODULE	**£ 99.95**

New Pricing!

PICASSO II

PICASSO II is the leading graphics card on the Amiga. It offers unrivalled support and retargetable graphics on any Zorro based Amiga. Workbench emulation offers 256 colours, even on non-AGA machines (Requires OS3.1) at resolutions up to 1600x1280. Supports HiColour (16 bit) and True Colour (24 bit) graphics - 16 million colours!

There is no longer a Chip RAM limitation and screen configuration is provided through PicassoMode, which allows the creation of custom screens quickly and simply.

PABLO is the new Video Encoder option for Picasso II, expanding it with two additional video ports, one standard Composite Sync Signal, and one S-VHS (Y-C) compatible port. All PAL compatible video devices can be plugged into Pablo, such as a colour TV or a video recorder. Pablo has 15KHz overload protection and is supplied with cables/adapters, Animation examples and a 24 bit animation player.

PICASSO II 2MB	**£299.95**
PABLO VIDEO ENCODER	**£129.95**

DOUBLER 4000 - 50MHz

Blittersoft deliver the fastest 68040 accelerator ever for the Amiga 4000/040, setting a new breakthrough in price and performance. The new Doubler 4000 50 MHz 68040 accelerator delivers across-the-board speed increases for all applications and system functions, translating into a significant productivity gain.

This powerful "plug and play" accelerator is 100% hardware and software compatible, since it still uses a Motorola 68040 processor. It offers an affordable upgrade that makes sense, requiring no special software. For a moderate price, users get twice the processing power, yet retain 100% of their Amiga investment. No software upgrading, reconfiguration or incompatibilities.

The Doubler 4000 accelerator is an easy-to-install daughter board that simply replaces the 25 MHz 68040 CPU socket on the Commodore Amiga 3640 board. Anyone who can install a SIMM can install the Doubler 4000. Customers are supplied with photo-illustrated installation instructions plus the necessary extraction tool to perform the installation.

Simply putting a faster processor into an Amiga does not help much unless the system can supply enough data to keep it busy. That is why the Motorola 68040 contains a large on-chip cache. This cache frees the Doubler 4000 to work semi-independently of the Amiga memory subsystem. In fact, 85% of the time the cache contains the data and instructions necessary for the Doubler 4000 to operate at full speed.

The Doubler 4000 includes an on-chip math co-processor, and will dramatically speed up any application - such as rendering - that depends on calculations. It is completely reliable and system safe. An integral cooling system ensures that the Doubler 4000 runs cooler and more reliably at 50 MHz than the original processor.

RELATIVE PERFORMANCE (SysInfo V3.15 benchmarks.)

DHRYSTONES	-	A4000/40	: 17,973	DOUBLER 4000	:	36,126
CPU MIPS	-	A4000/40	: 18.76	DOUBLER 4000	:	37.72
DISK MBYTES/SEC	-	A4000/40	: 1.40	DOUBLER 4000	:	1.58

NEW

DOUBLER 4000 50MHz ACCELERATOR **£399.95**

ARIADNE

Ever wanted to set up a network but been afraid of the complexity involved? Now there is a simple but effective solution for any Zorro based Amiga. In addition, Ariadne has two extra parallel ports and includes Commodores industry standard software solution ENVOY.
Ariadne offers 10Base-2 (Thin ethernet, coax cable) and 10Base-T (Twisted pair, western jacket), Socket for a boot ROM, SANA-II compatible driver for ethernet and parallel port, 32Kb cache to support the CPU and full manuals.

You can hook up additional Amiga`s to the parallel ports with Liana.

ARIADNE **£219.95**

LIANA

Liana is the ideal solution for a quick, easy yet efficient connection between two Amiga`s. Simply plug the special cable into the parallel port, install the software and you are ready to go. Now you can share hard drives etc. without on a small budget. The software supplied is ENVOY.

LIANA **£64.95**

PHOTOWORK SPECIAL
DISPLAY, MANIPULATE AND SAVE
PHOTOCD IMAGES FOR JUST £39.95
FOLIOWORK SPECIAL
USE PORTFOLIO CD`S WITH
FOLIOWORK FOR JUST £29.95 (STATE
DISK OR CD32)
BUY ANY GRAPHICS CARD AND ADD
PHOTO OR FOLIOWORK FOR £10.00

MULTIMEDIA PICASSO

NEW

Introducing a brand new package, offering stunning value for money! This all new package comprises of :

The PICASSO II graphics card, full 2Mb version. Unmatched comptibility and support!

The PABLO VIDEO ENCODER, fits neatly on the Picasso II board and offers fantastic quality.

TVPaint Junior, a great entry level 24-bit package.

Cinema 4D V1.5, superb rendering package.

This total solution allows you to release your creativity in stunning 24-bit quality. No other package offers so much value and performance.

MULTIMEDIA PICASSO **£399.95**

OS 3.1

All packs contain the appropriate ROM(s), Workbench 3.1 disks, three manuals and detailed fitting instructions (*).

Much of the latest software requires the latest operating system. Now you can upgrade to KickStart 3.1 for virtually any Amiga. Non-AGA machines can deliver a 256 colour Workbench with OS3.1 and Picasso II.

OS3.1 FOR AMIGA 500 OR 2000	**£89.95**
OS3.1 FOR AMIGA 600, 1200, 3000 OR 4000	**£99.95**

* Please specify machine. Note that revision 3-5 motherboards require linking to be added. We strongly recommend that a professional computer repair/service company undertake fitting. We cannot exchange any damaged or incorrectly fitted components.

Blittersoft

6 Drakes Mews, Crownhill,
Milton Keynes. MK8 OER. UK.

01908 261466	**Orders Only**
01908 261477	**Technical (1.00 pm - 4.00 pm)**
01908 261488	**Fax**
01908 261499	**BBS (24 Hour)**

Order by Access/Visa/Delta/Switch or Postal order/Cheque.
Credit cards attract a 2.5% surcharge.

Prices and specifications may change without notice. All prices include VAT. It is advisable to telephone to confirm pricing /specification/ availability before ordering. E&OE. All trademarks acknowledged.

EUROPEAN CUSTOMER ORDERS WELCOME.
UK/EUROPEAN TRADE ENQUIRIES WELCOME.
e-mail : plesurf@cix.compulink.co.uk
Compuserve : 100523,2224

SYSTEM

Your essential guide to the world of Amiga gaming

Under the system spotlight

High Seas Trader 90
Tower of Souls 94
Super Loopz 98
UFO A500 106

System survey

Let us know your opinions on our games section and win some prizes in the process

A fistful of fun

System puts the summer's hottest hopefuls under the spotlight

SYSTEM ANALYSIS

88 **Beat The System**

Stuck on Ultimate Soccer Manager? Getting in a twist over our Speris Legacy demo? Take a look within

98 **Preview – Limbo of the Lost**

Gore galore is promised in Tri-Logic's new adventure game

102 **Preview – Big Red Adventure**

Communist conundrums in Core Design's latest adventure. We take a peek

Monster Manga

Fans of Manga will be pleased to hear of the latest releases from Manga Video this month. Godzilla vs. Mothra, released on 1 May, is based on the 1964 film, Godzilla vs. The Thing. The movie is the fourth in Toho's big budget remake series and is directed by Takao Okawara and Koichi Kawakita. The plot sees a giant meteorite hurl to Earth setting off volcanoes and earthquakes which awaken Godzilla from his slumber. The landslides reveal a mysterious sphere which truns out to be the egg of Mothra and surprise – it hatches! More trouble is in store as the earthquakes have also caused Mothra's enemy, Battra, to rise.

Manga Video also kick off their new six-part series, Angel Cop, where the deadly but sexy Angel, a member of the Special Security force, is sent to fight a new wave of crime in Tokyo. This story follows the Red May, a dangerous terrorist organisation. Part One also includes the first episode of the comic strip, Bone 'Ed, The Chainsaw Messiah.

Part One of Angel Cop is due out this May

Toho's budget remake series now includes Godzilla vs. Mothra

system online

Summer's here and the heat is certainly rising on the Amiga games scene. Tina Hackett brings you news of the hottest releases that will be coming your way

Zee sheep in Zeewolf's clothing

Binary Asylum are busy at work on the sequel to their excellent helicopter sim, Zeewolf. It promises to keep the same successful gameplay as before, but with a variety of new missions and improvements. They are still aiming to keep the tactical element and the same freedom of mission order.

The company are also expanding their development team with the appointment of Chris Newcombe, previously a Senior Software Engineer at Sega Europe and a programmer on Gunship 2000 for MicroProse.

The original Zeewolf was a great success for Binary Asylum

Manic Pinball

It certainly is Pinball Mania at the moment – literally! 21st Century, the people behind the hit pinball sims Pinball Illusions, Pinball Dreams and Pinball Fantasies, are working on yet another that promises to better its predecessors. At the moment the Amiga version isn't definite, but keep your fingers crossed because this one looks like being the best yet!

There are going to be four tables which will have the themes, Tarantula, Jailbreak, Kick-Off and Jackpot. They will all include animations such as moving switches and passage spinners, and there will be a minimum of three flippers on every table. The controls will also be user-definable.

Play to win

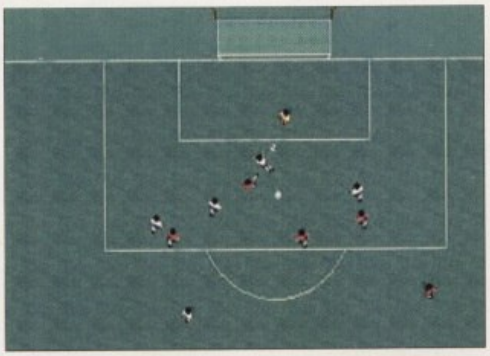
The popular footy management game, Player Manager, has been given a fresh lick of paint and the new moniker Player Manager 2 to bring you a sequel.

You actually get to play in the matches and can choose from options such as Personal Challenge – where you must reach a set target – or Knock Out – where four players test their skills against each other.

There are also all the other usual managerial options where you'll have to decide everything from tactics, to carrying out individual player team talks and deciding on stadium improvements.

A Ray Trace option will also make for a highly impressive game. This allows you to design your tactics accurately, and by applying the Ray Trace you can pinpoint player limitations, decide on the best positions for your players, and choose the right tactics for individual matches.

From what we've seen so far, it looks like falling into the new genre of management games we're seeing at the moment that tend to go for a highly polished, realistic graphical style rather than the totally stats-based approach.



Player Manager 2 will have many new features and will boast some very realistic graphics

Get the power

Ever-busy Impressions are working on another strategy title called Power House. It's set in the future and puts you in the role of a power giant competing against three other ruthless rivals, all vying for the earth's natural resources.

It's your aim to build a profitable business empire without destroying the earth's already crumbling eco system. You can choose from nine types of energy to invest in, from the renewable to the fossil fuels.

You will also have to do things like test drilling and mining, or construct oil rigs. Negotiating territorial rights and extraction rights is also important. Power House will be available this June and it certainly sounds different.

Play the part of a ruthless power baron

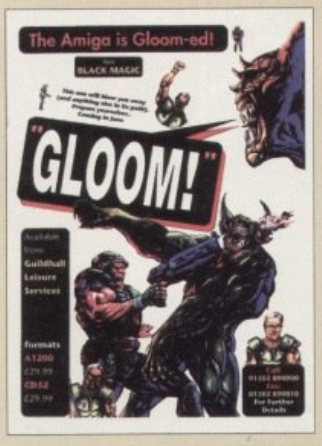
In their Shadow

Thanks to all those who entered our Shadow Fighter competition a couple of months back. We had a good response and the standard of entries was high. But as they say: There can only be one winner! So congratulations to Sarah Snape from Sheffield who gets a CD32 courtesy of Gremlin. The five runners-up are Marek Walford, Adam Scott, Tom Wilson, Craig Humphries and Tom Gaskell. Each receive a copy of the excellent beat-'em-up, Shadow Fighter.

Living in Fear

PC cynics who claim that Doom can't be done on the Amiga may soon be eating their words. A huge effort is being made on the part of Amiga developers to find the ultimate Doom beater, or at least an equal to it! Death Mask tried and failed, Alien Breed 3D is in the pipeline and already looking pretty stunning, and two more contenders are raring up to take the challenge.

Fears is just one of theses titles. Written by French team MANYK and published by Bomb Software, Fears aims to provide a good combination of action and some of the more Doom-like strategy aspects. You will also be able to link two Amigas together via a null modem cable for a networked game.



The other is Gloom and is being developed by a New Zealand team called Black Magic. The programmer, Mark Sibbly, has already earned a top reputation for himself for the hit game Guardian, among others, and the programming language Blitz Basic. Gloom guarantees gore in abundance and two different graphical styles which will alter the mood of the game dramatically.

Both games will be released this summer.

Fears – one of the games lining up to try and challenge Doom

Obsessive behaviour

In my days on ST Review magazine I remember there was a certain title that really grabbed my attention. So much in fact, that I awarded it a huge 98 per cent. And now, rumour has it that this very same game (plus a few tweaks and improvements) is heading its way on to the Amiga.

It's a pinball game by a relatively new Swedish team called Unique Developments. When I saw the game it had four completely stunning tables: Aquatic Adventure, Balls and Bats, Desert Run and X-ile Zone, but an extra table is promised for the A1200 version, along with 256 colours and multi-ball.

Look forward to this quality pinballer, Obsession, soon

In Brief

Tiny Troops

Mindscape are working on a multi format release across the CD32, Amiga, PC and PC CD-ROM called Tiny Troops. It is a fun strategy game featuring two warring races of bugs across six different worlds. A June release is planned and it will have 70 different missions.

To the Hilt

Kellion, the very new publishers behind Leading Lap and Ants, are working on a Laser Squad sort of title called Hilt, but based around robots. It'll be ready in a few weeks and we'll hopefully be bringing you a full review soon.

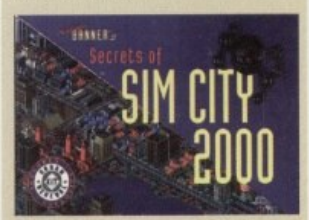
Explosive game

Kent based Arcane are working on yet another Amiga title along the lines of Bomberman and Dyna Blaster. It's a Blitz Basic game that will have a multi-player link mode for ultimate playability

Hot in the city

Bruce Smith Books are continuing there range of Gamers Guides with their latest addition, Secrets of Sim City 2000. Written by Andrew Banner, it contains 128 pages of hints and tips to help players build the perfect city. It also contains details on the recently released Urban Renewal Kit.

Priced at £9.95, you can find the title in major book stores or order via Computer Bookshops on 0121-706 1250.



Stuck on Sim City 2000 – help is at hand

System Selections

With all the new releases available your probably wondering which ones to spend your hard-earned cash on. Well, take a look below.....

All Terrain Racing

On the balance of things it beats its predecessors because of a greater long-term incentive. The rewards of winning the money, then spending it to soup up my motor filled me with a boyish flush of satisfaction – and that's the sort of thing to keep a player going. It's got the looks, the features and the speed to take the chequered flag. Go forth and spend your money.

SKIDMARKS 2

This is one hell of a race-'em-up it has to be said. It's great fun especially when you have two or more players and it works really well in bringing out the competitive edge in you. This is one of the most playable and fun race-'em-ups around and with the vast amount of new features added it's certainly worth a look, even if you have the original.

TFX

With a suitably accelerated machine, this game has the visual flair and excitement to attract fans usually put off by the Sim-designers' fetish for complexity. Problems aside, this game beats its closest rival both in detail and speed. TFX is the best sim on the Amiga of all time, and that's a fact unlikely to change in a long, long time.

Manchester United: The Double

The Double is a true football game for true football fanatics everywhere. Krisalis have broken out from defence, played it beautifully through the middle, knocked it out to the wing, gone round two of the opposition and delicately curled another golden goal, past the flustered keeper, into the top corner of the net.

Ultimate Soccer Manager

This is one quality title and thankfully it's different from all the others – and what's more it's fun! The whole game comes across as extremely polished with a great attention to detail. Highly recommended to both fans of the genre and those that would normally give this a wide berth.

The scores on the doors

A guide to how our revolutionary scoring system works...

We're sure many of you are now familiar with our new scoring system, but for those reading *Amiga Computing* for the first time and those who might have forgotten exactly how it works, here is our guide to the System scoring, err system.

In our opinion, review scores have lost their context as a percentage; some products receiving scores which were only a few percentage short of being the "perfect" game, when in truth they were only marginally above average.

OK, so the scores might seem unnaturally low at first, but that's only because other scoring systems tend to be on the high side and perhaps not as comprehensive or honest as they could be.

In the long run you'll receive a more concise and reader-orientated review that's geared towards the consumer.

0-20 This is given to the lowest of the low

21-30 An all-round poor game that may have a single saving grace

31-40 Just below the average, perhaps let down by a few indiscretions.

41-55 Games of this score are roughly average with 50 being a perfectly average score.

56-66 This is an above average game and is worth buying. For this reason it would be awarded the BRONZE award.

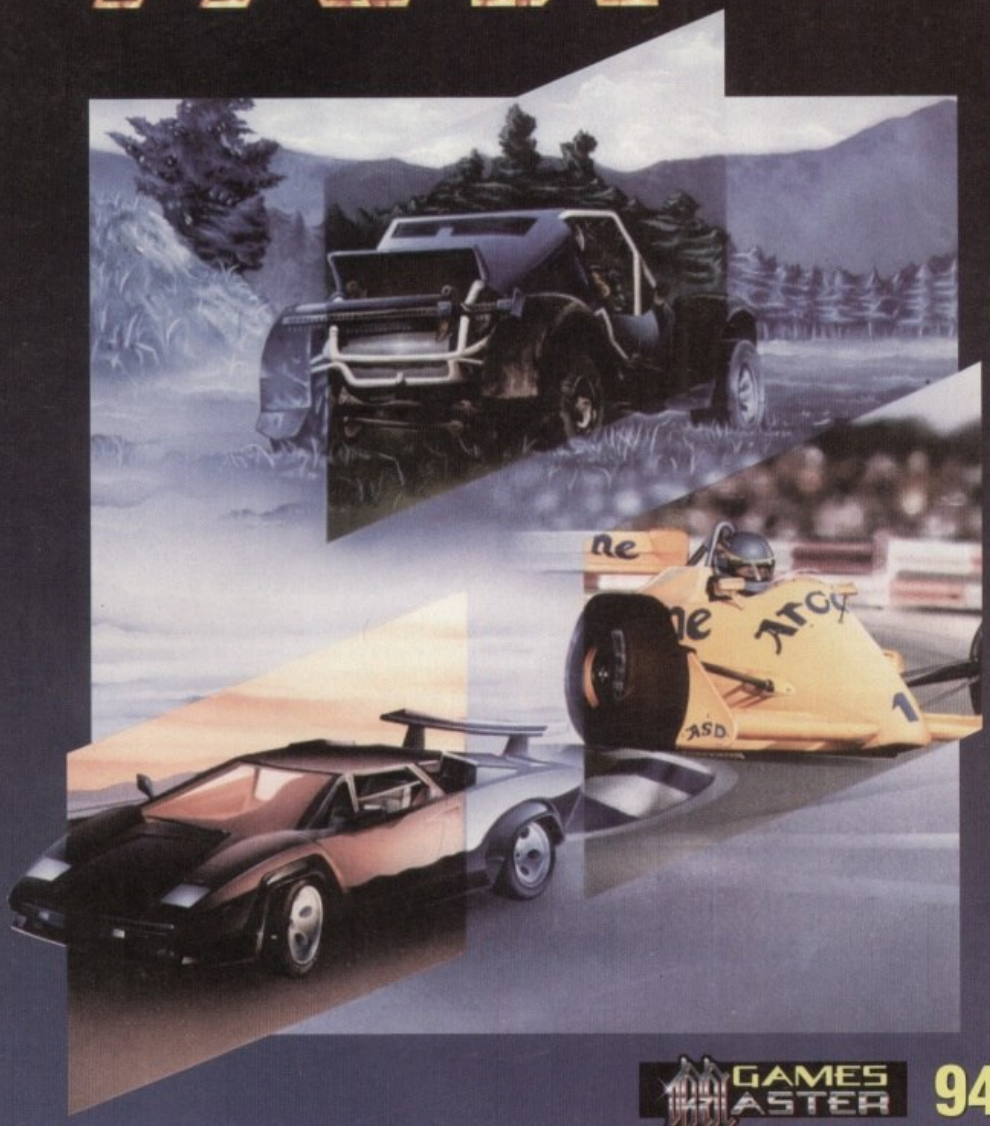
67-77 A game of high quality that you as a reviewer would have no reservation in recommending. Anything of this ilk would be awarded the SILVER award.

78-89 A brilliant title. Definitely worth buying and almost the definitive of its kind. This type of game would receive the GOLD award.

90-100 The best in its genre. This benchmark title receives the PLATINUM title.

Turbo TRAX

ARCANE
ENTERTAINMENT LTD.



GAMES MASTER **94%**

"is the best racer of the current batch and you'd have to go a long way to better. A classic!"

AMIGA ACTION **92%**

"The best Amiga Racer ever"

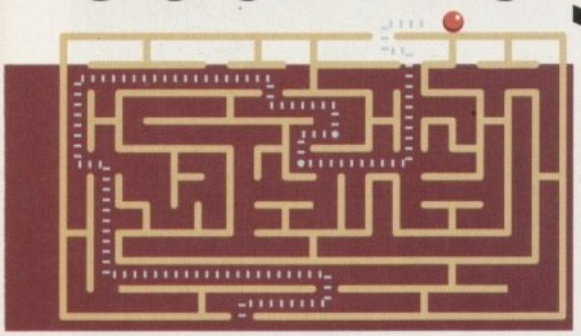
Marketed by **Kompart UK**
01438 840004

Also available at all good software stockists

Virgin, Future Zone, Beatties, Game, HMV, WH Smiths, Software Plus, Toys 'R' Us

Ultimate Soccer Manager

beat the system



It's a double bonanza this month as we bring you the guide to becoming a successful football manager, and also show you how to tackle our coverDisk demo of The Speris Legacy

Staying on top of your finances

To help you in your quest for soccer glory as a manager, start the game with £5m to avoid heavy debts later on in the season. Use the two weeks pre-season time to improve your stadium in order to generate some gate money to offset against player wages. When you are making ground improvements do it as soon as possible – don't wait around for inflation to increase the price of buildings.

A good idea is to open merchandise stores and food outlets to improve your overall income. Make sure you spread these outlets evenly to generate an even income and only build stands where you get the highest attendances. Keep your ticket prices low for the matches when you're expecting low crowds, and push them up for important cup games against clubs in a higher division.

Plan your building time carefully so you won't end up like Kidderminster or Macclesfield by being refused entry into the next division by not complying with league standards. Increase your ticket prices and merchandising by 10 per cent every season to get the most out of the fans' money.

Don't get on the wrong side of this bloke, or you could find yourself out of a job

If you apply for a loan early on, you'll be alright

George Graham? Bungs?

Each time you make an unsuccessful corrupt offer, or bet against your team, there is a 50 per cent chance of being caught! If you are caught in the act twice you will receive your first warning, via the newspapers – surprisingly! If you decide to carry on and are spotted after four tries, you will be sacked on the spot!

The manager looks on, furious with the referee's decisions

Select the right squad to combine with your selected formation and you'll begin to get somewhere

Don't forget, steer clear of the long ball game. Burnley? Passing? They can only try

Checking other scores in your league is vital to help you decide on which style to adopt for your next game

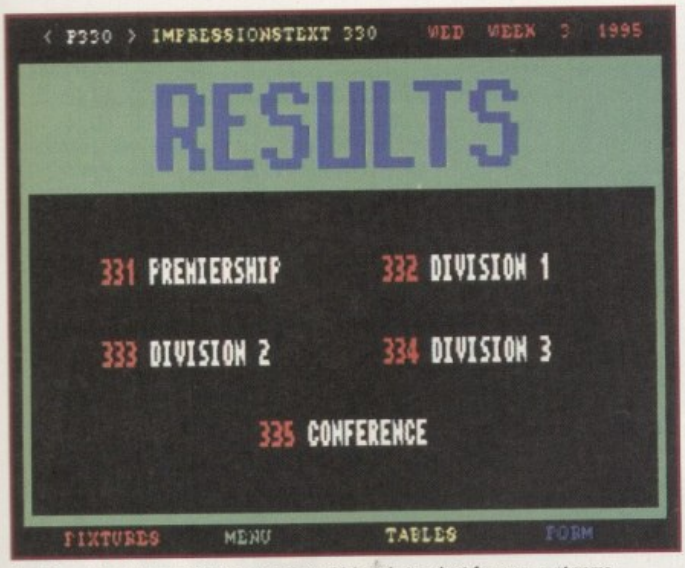
Looking for new talent?

The first rule in football is always keeping your chairman happy. Don't let his opinion of you fall below 10 per cent otherwise you will be sacked. Try and take your Assistant Manager's advice to help you with the running of the team, and don't skimp on training either – keep the coaching staff happy by increasing their wages and always be on the look out for others.

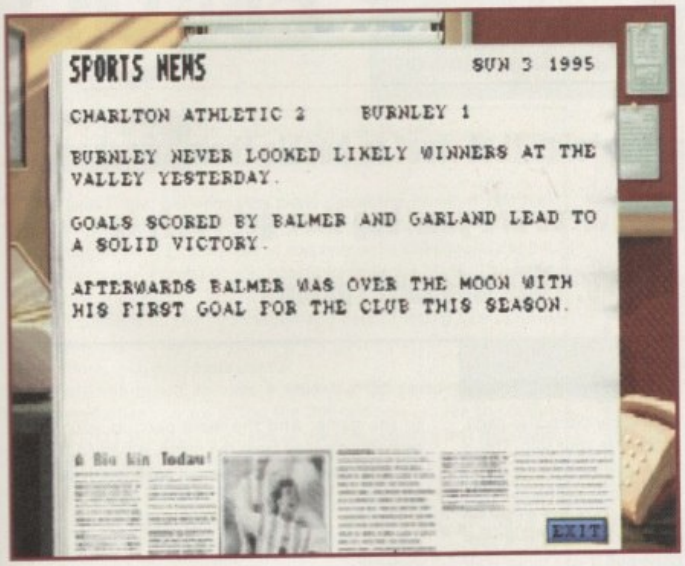
Youth players can be a huge investment if you bring them into the team early on in the season. Don't be put off by their low ratings – they will increase very quickly.

See the matches through so you can monitor each player's progress and make tactical changes accordingly. Avoid putting players in in-effective positions where they won't see much of the action, and don't be afraid of changing your formation early on to find the right combination. Try to steer clear of the long ball tactic – your attendance's will fall if you inflict too much of this punishment on your fans.

To start with, look for older players in the higher leagues – about the age of 33. These will generally be cheaper and give your side some much needed experience. Bring on players on the bench in the last ten minutes, even if you don't insist on using them, as the last minutes will give them experience and they will not become demotivated.



Checking other scores is vital for deciding which style to adopt for your next game



The newspaper gives inside information on how your players reacted to certain situations

Cheat. Just like Man U.

When asked for your name at the start of the game, enter 'MAKE BELIEVE' and press the following keys during a match:

+	Extra £100,000 in bank account
G	Goal attributed to last person who passes the ball
E	Penalty shoot-out
F	Gives away a foul
Esc	Quits current half, leaving the score as it stands
1	Ends the match with a 1-0 result
2	Ends the match with a 2-0 result
3	Ends the match with a 3-0 result
4	Ends the match with a 0-1 result
5	Ends the match with a 0-2 result
6	Ends the match with a 0-3 result

The Speris Legacy

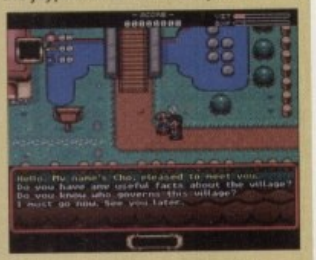
Amiga Computing Demo

Firstly, speak to the troll about the bridge. He will then instantly go into attack mode after the conversation. Go and visit Rupert the inventor (near the start point) and talk to him. Ask how to defeat the troll and he will offer you a dagger for ten gems. Go and slaughter a few ghosts and collect the ten gems needed, then return to Rupert and get the dagger. You must do this to proceed with the adventure.

Return to the troll and attack him with the dagger. Only do this when his back is facing you – his breast scale armour is too strong for the basic weapons used earlier in the game. Collect the key the troll drops and make your way to Elsrika's house (she's standing outside).

Chat to the young lady and offer her plenty of compliments – you will then find a tinder box .This will enable the bombs previously collected to be ignited – providing the tinder box is selected.

Go to the store enclosure by the corn fields – this contains three chests. Lay a bomb with either the second fire button on the joypad or 'B' on the keyboard. This will destroy the concrete pegs in your way. Open the chest and you will find a strength potion in one of them.



Talk to everyone you meet and get everything out of them. It could be helpful along the way

Go to the far east of the corn fields and you will find an injured young fellow named Travis. He has been attacked by one of the blue knights who have mysteriously invaded the village. Travis will ask you to find the healing elixir stored somewhere in the village. Agree, and go to the stairs by the troll's bridge and take a right turning – keep walking until you come to the once immobile stone slab. Now, push the stone to reveal a star teleport. You will be transported to a small green enclosure. Open the chest and it will contain the healing elixir needed to cure Travis.

Return to Travis and give him the elixir. He will thank you and give you a blue crystal. Go and find Guardic and Zamma who are located just after the Church's bridge. Make conversation with them and Guardic will eventually ask you for a pipe. Head towards the stairway by the troll's bridge again and take a right turn – you will notice a dwelling with two cracks in the front of the house. Walk to the back. The key you collected from the troll will automatically let you into the shop. Ask Phillis (shopkeeper) if she has a pipe for sale and she will refuse you at first, but she has a weakness for precious stones. Offer her the gem you were given by Travis and she will change her mind.

Go back to Guardic and give him the pipe. He will give you a little more information and well done – you've completed the demo.

Find the troll, but make sure you've got the dagger from Rupert

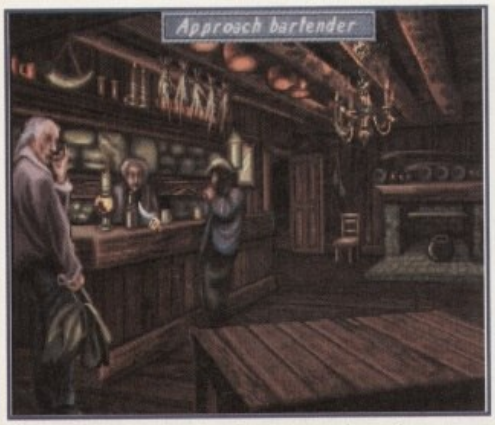
Find out how to defeat the troll from friendly Rupert

A lot of travelling is involved throughout the game

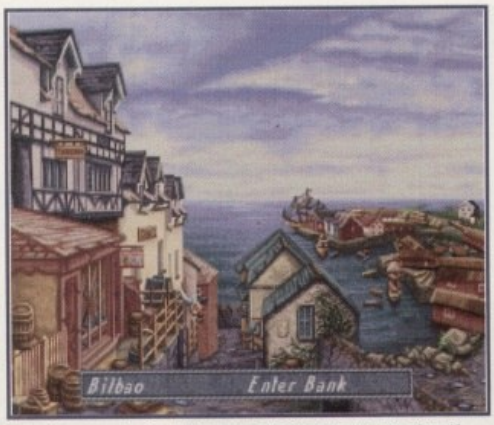
Collecting bombs can help defeat any nasties standing in the way of your quest

Confront the troll, making sure you've collected ten gems and have received the dagger

Rupert will give you the dagger and useful bits of information on the village



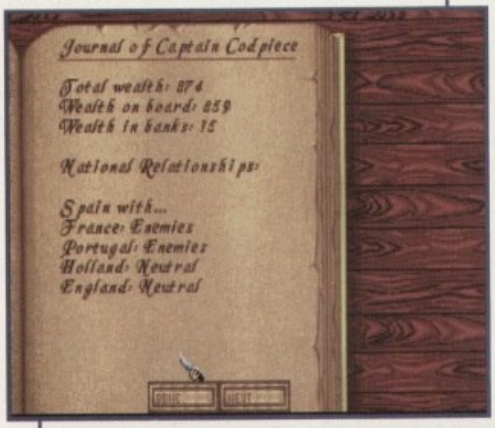
At the tavern you can gossip with the bar-tender to glean valuable info or entertain your crew to boost morale



Take the opportunity at the port to bank some money. Then if you are attacked at sea you won't lose all your gold

Publisher: Daze
Developer: Impressions
Disks: TBC
Price: £34.99
Genre: Strategy
Hard disk install: Yes
Control system: Mouse
Supports: A1200
Recommended: 68020

From your plush cabin you can view the log books, check rations and chart your progress



Your journal will provide valuable information – keep an eye on national relations

INTRODUCTION

Since the days of Elite, strategy trading games have been a very popular genre. Now Impressions, the masters of strategy, have turned their talents to the high seas and combined the usual dose of trading with a rum punch cocktail of sea shenanigans, pirating and combat.

High

Calling all Sea Captains that want to buckle their swashes. If high seas adventures are your bag then get ready to shiver your timbers. Tuna Haddock reviews

PLAYABILITY

Gameplay is divided into many distinctive parts. For one, you have to navigate your ship. This is done by choosing the port you wish to go to and plotting a course to it. A problem arises though, because when you place the cursor on the map you can scroll it around. This is supposed to be a plus point but if you move your mouse too far, the map jerks unexpectedly off the area you want, and even moving your cursor to the instruction panel on the same screen can result in losing your place on the map.

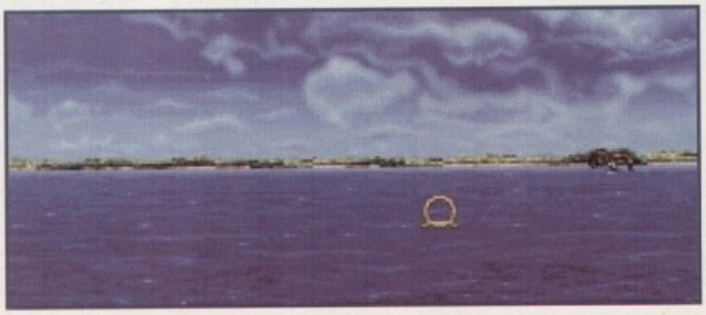
While on the high seas you'll have to deal with pirates and attacks from enemy ships. You do battle by firing cannons and you have a wide range of artillery at your disposal, from the small Swivel Gun or the Demi-Culverin to the Cannon. This works well and brings variety to the game. And the main part, as you've probably gleaned from the name, is trading. As you sail between ports you will have to buy certain goods and then decide where to sell your cargo for maximum profit. This, as you'd expect, is the game's strong point and is quite in-depth.

A good captain will also take care of his crew, making sure conditions are good and ensuring there will be enough supplies for the voyage. Wages will also have to be set according to morale and funds available. If you neglect these, you will find you'll have a sickly and mutinous crew on your hands. When morale gets low you can boost the rum rations or entertain them in the local tavern when you reach land.

FLASHBACK

Just recently, Black Legend brought out their sea venturing game called Voyages of Discovery. Although a very similar concept, they both have very different gameplay. Voyages uses a turn-based system and places emphasis on discovering continents and building an Empire as well as trading.

There is more to Voyages of Discovery, but High Seas Trader looks far more attractive and is probably easier to get into.



After months at sea, land comes into view and you can stock up on supplies or prepare to trade your wares

STORYLINE

There is no storyline to the game as such, more a brief background. You are cast in the role of a merchant sea captain during the 17th and 18th century, eager to prove your worth and win back your family's honour.

Your Father was a Viscount serving the Earl but when the Earl died his son took over and to cut a short story even shorter, he was a bit of a bad sort. Your Father, being an honourable chap, would not stand for it but the new Earl, being far more powerful, strips him of his wealth and title.

And now you seek to regain your family's honour by working your way up the ranks on the high seas. You start as a mere peddler and you strive for the ultimate title of Viscount. You must increase your rating in daring, honour, loyalty and nobility.

SOUND

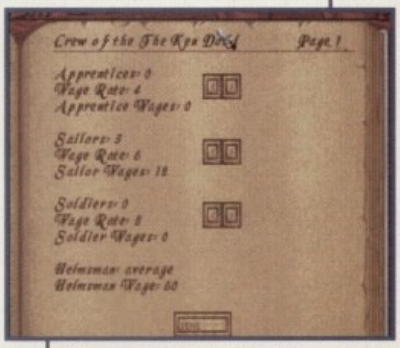
The game implements different tunes for certain areas of the game. For example, above deck you have a different tune playing to when you go to your cabin. All the music fits in with the time and atmosphere of the game, but as stand-alone tunes they're not exactly brilliant. If you particularly want to have in-game music it is adequate enough but more than likely you'll turn this off to have just the sound effects option.

But again, I'm afraid, they're not very good either. There is the occasional creak of the boat or the splosh of the anchor as you plot your course on the map, and there is also a rather dubious seagull cry throughout. I feel as though a great deal more could have been done to increase the atmosphere.

40%

Seas Trader

As the game progresses you must try and achieve a higher level rating



Wages can be altered depending on morale and available funds

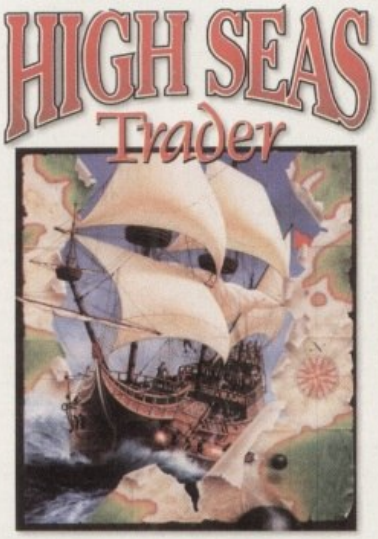
GRAPHICS

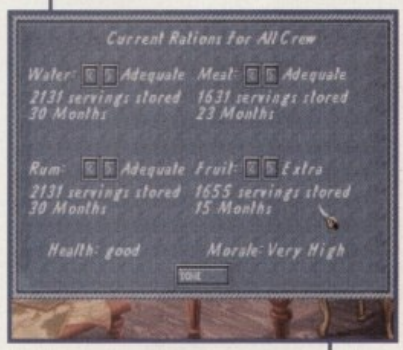
High Seas Trader has been very nicely presented, however I do feel that some of the visuals have not been exploited to the full. For example, when the crew mutiny, you only get a still screen (albeit a very nicely drawn one) of you having to walk the plank. The same goes for the market. Although you do get a well set-out table which contains all the information you need, I would like to have seen some visual representation of the goods you can trade, or just something with a bit more appeal.

The game boasts to have a 'stunning' 3D perspective. This is apparent when you are sailing the ship and you can see the ocean ahead and supposedly the helm of the ship. Again, I feel this could have been done better by maybe showing the front of the boat or having the wheel more prominent to give more of a realistic feel.

The actual effects do work well though, from the lapping of the waves to the storms with the darkened skies and bolts of lightning. Overall, the graphical style is good, althoughlimited, and the ports look nice. The inside locations such as the tavern or the cabin fit in with the period and also look very good. Although everything is very nicely drawn, I do feel that some animations would have not have gone amiss.

65%





Keep a check on rations – this affects the morale and health of your crew

There are many ports around the world you can travel to – but don't forget to buy a map!

OPINION

66%

On the whole, High Seas Trader is a competent trading simulator, with more variety than you usually get in a game of this sort. However, it's not without its drawbacks. The 3D view gives the game a certain graphical appeal, but I can't help feeling this could have been implemented more effectively. Also, the navigation of the ship is far too fiddly and as this is a major aspect of the game it does become very irritating.

There are elements that do work very well though, such as keeping your crew in order and morale high. Combat with enemy ships also adds variety. The trading aspect works well too, especially with various events affecting the economy such as wars or locusts which will alter the price of harvested crops, but by talking to the bartenders you can pick up all the news you may need.

AMIGA BRONZE AWARD

Those heavily into trading simulations may well want to give this game a try. It is quite fun for a while but there were quite a few negative aspects which would put casual players off returning for another go.

SOFTWARE 2000

We stock over 6500 QUALITY PD & SHAREWARE

ALL OUR PD DISKS ARE

99P

PLEASE SEND YOUR ORDER TO EITHER OF THESE DISTRIBUTORS YOUR ORDER WILL BE SAME DAY DESPATCH VIA FIRST CLASS POST

How to order

To order any disk just write the disk title and the disk code, EG U01 Against. Some titles have a number in (). This means the title come on (x) number of disks. To order PACK just write down the pack TITLE name.

ALL DISKS ARE COMPATIBLE WITH ALL AMIGAS UNLESS STATED

AGA Disk means for A1200/A4000 only

Price.....99p per disk

Please add 70p to total for postage & package

Pack price as stated. All Orders Same Day Despatches

For the very latest disk catalogue please add 70p

MAKE CHEQUE/POSTAL ORDER PAYABLE TO: SOFTWARE 2000

SEND TO (ADDRESSES TOP RIGHT)

NO MINIMUM ORDER

OVERSEAS POST & PACKAGE RATE

(Europe add 25p per disk for P&P)

(Worldwide add 50p per disk P&P)

SOFTWARE 2000
Dept (ACD4)
48 NEMESIA
AMINGTON
TAMWORTH
B77 4EL
ENGLAND
TEL: 01827 68496

SOFTWARE 2000
Dept (ACD4)
9 WILLS STREET
LOZELLS
BIRMINGHAM
B19 1PP
TEL: 0374 678068

TEL OR FAX: 01827 68496

GAMES

G097 PLOTTING like tetris on side
G102 PIPELINES connect pipe V addictive
G109 BUG BLASTER fast action recommend
G112 DUBULUS based on a RUBIK cube
G121 LAMATRON (wb 2/3 require Relockit)
G127 DEFENDA Brilliant defender clone
G136 DUEL fast action like BATTLE ZONE
G153 SEALANCE Good Submerine Simulator.
G177 PIXIE KINGDOM (2disk) adventure
G190 ICE RUNNER (not A1200) ice graphics
G195 WHEEL OF FORTUNE VG TV QUIZ games
G216 POOL(not A1200) only one on PD
G222 MEGA 21 GAMES amazing 21 games
G235 DRAGON-CAVE brilliant 3D puzzle games
G237 SCRABBLE (for 2-4 player)
G240 QUADRIX very addictive, excellent
G243 TAKE EM OUT like to Operation wolf
G245 CHROME-20 brilliant game recommend
G249 WREX (not A1200) super game & graphics
G253 DESTINE MOON RACE Amazing scrolling
G258 ALIEN NET WORK (not WB3) Invaders
G263 SHAPES Play like a computer jigsaw.
G265 SUBCULTURE brilliant excellent ish up
G266 TRUCKING A (2D not A1200) simulator
G268 SCUB-BUSTER destroy enemy Scub Missile
G271 AVINA BLUE fast action shoot em up
G272 TANK BATTLE 2 player tank battle game
G278 ARCADIA the best ARKINOID clone
G300 G-BOID cross TETRIX and INVADERS.
G303 DIMENSION X 2 player LIGHT CYCLE GAME
G304 GRAND PRIX SIMULATOR (A500 & A1200)
G305 SQUATS REVENGE VG operation wolf
G309 F-TYPE (not A1200) best shoot em up
G310 NEBULAR Excellent 3D shoot em up
G312 GAMES PACK 26 3 high quality games
G313 MEGATRON new player torchlight vista
G314 LEGO-TRIS (not A1200) Good tetrix
G315 INTER-LOCK Brilliant 3D puzzle games
G316 GALACTIC Excellent 4 levels arcade
G317 HYPER-BALL Speed ball +level editor
G320 GHOST-SHIP Very good 3D adventure
G325 BATTLEMENT hunch back of Notre
G326 MEGA GAME COLLECTIONS III 3 top Games
G328 MADONNA NUDE PUZZLES for 18+ only
G331 GRAVITY massive space exploring game
G333 SYBERNETIC Brilliant 6 way blaster
G334 DONKEY KONG (not A1200) classic Arcade
G335 CRAZY SUE II- best platform to date
G340 SUPER SKODA CHALLENGE (6 track editors)
G344 STAR-TREK similar to RAID2 but harder
G350 TOTAL FIRES III Very fast shoot em up.
G355 DOODY very cute & extremely playable
G356 WONDER LAND amazing graphic recommended
G359 WAR FARE SIMULATOR (not A1200) Strategy
G360 TOMCAT very vertically scroll shoot em up
G362 DELUXE PACMAN + best pacman ever release
G367 CARD GAMES collection
G368 WIZARD-DOMAINS - dungeon type games
G370 KALAHRUZ (not A1200) arcade tetris clone
G373 AIR ACE II Very playable shoot em up
G381 INFERNO I Tetris with a twist
G384 OTHELLO best PD version
G385 BILLY THE DRAGON - shoot em up
G386 MOUSE IMPOSSIBLE very addictive
G389 CASINO GAMES - For all gamblers
G390 TETREN most polished Tetris ever released
G392 STRIKEBALL brilliant base ball clone
G399 TRAILBLAZER brilliant (not A1200)
G400 FIGHTING WARRIOR like street fighter
G404 DOMINOES only one of its kind on PD
G405 TOTAL WARS - strategy-like chess in space
G407 NOVA & DOG addictive puzzle game
G409 WOT IT NAME QUIZ- quiz (ok it good)
G410 FATAL MISSION Excellent Nemisis clone
G411 BATTLE CAR 2-3D car racing
G422 SERENE III excellent arcade games
G431 HESTER CARD GAME- hours of fun for a quid
G435 ROULETE American roulette, excellent
G438 TRAILBLAZER 2 C64 conversion
G441 EFFECTRON Brilliant best asteroid
G443 OLYMPIAD DISK (2D) Olympic sport events
G445 DESCENDER GAME tank, search & descender
G446 GRAND Monster Arcade/Puzzle
G448 PARACHUTE JOUST quite playable
G452 CASTLE OF SOON VG graphic adventure.
G456 DUGEON OF NADRIF R.G.P adventure
G460 WIBBLE WORLD GIDDY Large platform game
G462 COSMIC RACE Impressive 3D racing
G465 CHESS 8 Very good chess game
G467 CASH FRUIT - good fruit machines
G478 AMOS CRICKET cricket games
G488 EXTREME VIOLENCE 2 player battle out
G489 ERVANA Very challenging puzzle
G490 MEGA BALL 2 very playable break out clones
G491 BOUNCE & BLAST Brilliant platform 10/10
G492 ZOMBIE'S DEFENDER 2 fantastic games
G494 MERCENERY SIMULATION 3D wars games
G495 LIFE GAME Addictive, utterly interesting
G500 TRANSPLANT the best Asteroid yet
G501 KLAWZ THE KAT-great platform games
G502 DRAGON-CAVE Brilliant puzzle Arcade
G503 DRAGON-FIRE - Gulf war mission
G511 HIGHWAY HELL like SPY HUNTER
G513 BLAST 'EM Amazing aliens
G531 OPERATION FIRESTORMS - brilliant
G534 CASTLE ADVENTURE similar to above
G535 BLACK DAWN brilliant graphic adventure
G537 ACK ACK - shoot em up for kids
G538 MORIA 1.5 The Best Dungeon & Dragon
G539 BRIDGE Good version of Bridges
G540 ORK ATTACK bloody adventure
G541 BOUNCE 2 Another futuristic breakout
G542 ROAD TO HELL brilliant car racing
G544 SUPERTOM CAT New vertical shoot em up.
G545 KUNGFU CHARLIES mix with platform, brill.
G546 RAID 4 latest vertical scroll shoot em up
G548 QUDMAS MASTER Good puzzle with gun
G552 ELEVATION games based on lift
G560 IMPERIAL WAR - Based on STAR WAR games
G567 STARBASE 13 (2D) Brill like MONKEY ISLAND
G657 AMOS LOADSA MONEY best FRUIT-MACHINES
G659 MEGA MIX 3 Another 3 games up
G660 4 L.C.D DREAM 4 small hand held games
G664 NEIGHBOUR GAMES (2D) Brilliant graphic
G665 TIME RUNNER (WB2/3) Brilliant graphic
G667 GOLF (2 disks) One of the first PD GOLF
G668 ANOTHER LIFE 2 New Amos cricket simulator
G669 MUGSY REVENGE gangster graphics adventure
G672 JIGSAW (2 disks) very playable jigsaw games
G673 BOMBY GARDEN + DIGGER (not WB1.3) brilliant
G674 HIGH OCTANE (NEW FASTER VERSION) (not WB1.3)
G675 TIME RUNNER amazing graphics adventure
G680 SAFE-CRACKERS - Fantastic graphics
G681 AUTOMOBILES - PD version of SKID MARK brill
G682 BANDIT MANIA - Brilliant fruit machine demo
G685 PROJECT BUZZ BAR - Brilliant asteroid
G687 PARADROID 64 (not A500 1.3) Excellent
G689 GUN FIGHT (not A500 1.3)
G690 THE REAL POPEYE 64 (A500 1.3 only)
G692 SYSTEM DEFEND - Brilliant Defender clone
G698 AMIGA-BOY-Game boy emulator + tetris
G702 DETHELL IN SPACE. Recommend.
G735 OVERLANDER Brilliant arcade MOON ALERT
G737 SERIOUS BACKGAMMON The best in PD BG
G771 STAR WORD (2 Disk) brilliant Thrust
G772 UN-SENSIBLE SOCCER very similar to Sensible soccer games. RECOMMENDED
G773 FRUIT MANIA - Brilliant fruitmachine.
G774 TRICKLE TREAT - like DOOM on the PC
G775 FOOT-BALL MANAGER - new version
G782 SOLO ASSAULT 3D like Wing Commander
G783 SEED OF DARKNESS - Brilliant graphic adventure
G784 MAIN EVENT Impressive game RECOMMENDED
G785 THE GREAT GOLD RAID - very addictive
G787 ANT WAR V1.9 (LATEST) not 1.3
G788 2D-HACKERPS Cool graphics
G789 TASK FORCE very good MIND SHADOW clone
G790 GRIP FIVE Amazing graphic like FLASHBACK
G791 PROFESSIONAL BINGO CALLER
G792 MARTIAL SPIRIT brilliant STREET FIGHTER II
G797 GRENSE ADVENTURE ADVENTURER in the arcade
G798 6 EXCELLENT CARD GAMES collection
G799 MOOSE DRIVE (A500 1.3 needs 1mg chip ram)
G809 BLITZ 2 fast action exciting games
G810 EXIT 13 Brilliant puzzle
G811 TEMPUS MEGA PACK ACEMENT- graphic adventure
G812 A DAY AT THE RACES - V.Good horse racing games
G820 BOULDER ORIGINAL with 80 levels
G821 BOULDER 2 + LEVELS/LEVEL CONSTRUCTION KIT
G822 BOULDER COLLECTION 2/3 160 level (2 disks)
G823 BOULDER ENGINE (not levels)
G839 BOULDER PACK 640 BRAND NEW LEVELS on 8 disks, must for all Boulderdash fans
G860 ALIEN NET WORK - new space invader
G862 BATTLE FORCE excellent test adventure.
G863 GNU CHESS the best chess with 10 level
G865 SWORD OF YIG Brilliant Dungeon + Dragon
G867 POWER-TETRIS 1 or 2 player Tetris RECOMMENDED
G868 SUPER-MARIO TETRIS very enjoyable Tetris
G870 CHESS II & CHECKER One of the best around most for all CHESS or CHECKER players
G871 GRAVITY FORCE 2 - for 2 player thrust clone
G872 SCHNEBITZ Commercial quality puzzle games
G875 DELXEE GALA v2.3(new) add new feature & bonus game + 2 player RECOMMENDED. Get it now
G876 THE KRILLIAN INCIDENT like ELITE 2/Epic
G878 QUANTUM WARRIOR - 5 exciting type games
G879 RAGS TO RICHES - like MONOPLY
G884 WIPE OUT- mindless blasting game
G885 GODZILLA Another shoot em up
G886 SUPER MEGA FRUIT- All new Fruit Machine
G887 STEWARDS ENQUIRY New Horse racing games
G888 DRIVING MANIAC 3D (fil vector like Indi 500) car racing - very fast. RECOMMENDED
G889 GAMES FALL - Large Amos game collection
G890 INTENSE 2 Follow up to part 1 RECOMMENDED.
G891 BUCK TOOTH ADVENTURE Very good multi level shoot em up RECOMMENDED
G892 PENGO 3 - Maze type games. Recommended
G893 SUPER CELEBRATION Blast asteroid very similar to PANG 2 lots of weapons. RECOMMENDED
G894 SUPER INVASION II - New SPACE INVADER
G896 ULTIMATE QUIZ - pub style quiz machine
G897 THE SHEPHERD Brilliant POPULUS clone. REC.

EDUCATIONAL

E001 KIDS PAINT excellent Paint program for kids
E002 COLOUR IT brilliant computer colouring book
E003 TREASURE SEARCH find the hidden treasure.
E004 LEARN & PLAY 1 (not A1200) many maths & games
E005 LEARN & PLAY 5 more education programs
E006 SPANISH TRANSLATOR Spanish <> English
E008 MR MEN (WB1.3) brilliant story adventure
E009 ASTROMY tutorial on solar/star etc system
E010 SIMPLE SPACE MATHS maths in space games
E011 EDUCATION PACK (5 Disks) packed with lots of ed programs ranging from maths to games recommended
E019 DINOSAURS teaches you all about Dinosaurs
E020 WORLD DATABASE requires (2+ meg)
E021 STORY LAND II Interactive puzzle games rec.
E022 LANGUAGE TUTOR teaches you 4 languages
E023 TALKING COLOURING BOOK talking Dpaint brill
E024 EASY SPELL It improve your kids spelling
E025 SCRABBLE requires 2-4 players. brilliant
E026 WORDS can help you solve the crossword
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
E035 CHESS TUTOR help/teach how to play chess
E036 ENGLISH TUDOR learn about english rec. Good
E038 AMIGA TUTORIAL 7 part tutorial
E039 COMPUTER CARE how to care about AMIGAS
E040 GUIDE TO LOWER BACK PAIN tutorial about the spine & how to avoid back pain. Recommended
E041 KIDS ALPHABET Displays all alphabet letters
E042 FRACTION & SILOUEST maths & games, excellent
E043 MATH MASTER teach/test you more on maths
E044 STAR ENGINE (v2 graphics & sound)
E046 PETROL ENGINE tutorial & animated graphics
E046 GALLOWS ENGINE (2D) tutorial & animated
E047 STIRLING ENGINE tutorial & anim graphics
E050 DREAM FOR ANGEL explains the meaning of dreams
E051 PERSONAL WORK - new space invader
E052 FISH TANK turn your Amiga into a FISHTANK
E054 DEMOLITION MISSION simple game to help
E055 WORD POWER solve crossword puzzles etc. Good
E056 WORM HOLE simple game, ideal for children.
E057 APPLE & CATCH catch falling apples, excellent
E058 CROSS MAZE & CRYPTOKING 2 excellent kids games
E059 VERB QUIZ find the word & its relatives. Brill
E061 KING JAMES BIBLE (4D) contains bibles, excellent
E066 TARROT clairvoyace in a instant
E068 GALLOW fancy a game of hangman?
E070 MATH DRILLS teaches all basic maths skills. Vgood
E071 ERROR INFO give info on why your Amiga crashes
E075 WORLD WAR 2 graphics tutorial on WORLD WAR
E076 SCIENCE an excellent collection of science. Ideal for all who are interested or studying science. Recommended. This pack comes on 4 disks
E080 KIDPRO great childrens paint program
E081 ASTROMY PACK- This is an amazing collection of programs related to astronomy. Can help to locate certain or star positions etc. Must for anyone who enjoyes astronomy or hobby. Great (4 DISKS)
E073 PICTURE & LETTER learn to read - first step
E074 AMIGA BEGINNERS GUIDE tutorial on Amigas
E085 NODDY PLAYTIME demo. Very good
E080 KID PRO more excellent paint programs.
E081 D.T.P FOR KIDS tutorial & examples
E092 SING A RYHMES sing a song
E094 HIGHWAY CODE TUTOR questions on highway code
E096 READ & LEARN (2D) THREE LITTLE PIGGY Story with speech & graphics. Brilliant, recommended
E097 BACK TO SKOOL vol 1 - general stuff is the best
E098 BACK TO SKOOL vol 2 an education program
E099 BACK TO SKOOL vol 3 & games. RECOMMENDED
E100 LITTLE TRAVELLER interactive travel guide
E101 WORLD GEOGRAPHY world with map & text
E103 DISCOVERY FOR THE ATOM. Tutorial on the Atom (2D)
E104 DESKTOP GUIDE TO MUSIC (3D) guide & tutorial
E107 TRUMPTY FIREWORK ALPHABET Very entertaining way to teach your child the A,B,C
E109 MR MEN OLYMPIC (2D) many events to complete
E110 CULT TV DATABASE (2D) Info on early TV series
E115 ELETRONIC WORLDS (3D) Complete K.James BIBLE
E116 HOW THE EARTH BEGAN - theory how the BIG BANG explained and examples of the solar system
E118 WORKBENCH 2 tutorial on Workbench 2
E119 DINO WAR Quiz on dinosaurs
E120 JUNIOR MATHS Great learning aid for teaching kids on the maths subjects. RECOMMENDED
E121 PICTURE PUZZLE brilliant JIGSAW type games
E122 WORD FACTORY Many games for kids, excellent
E123 KID DISK 1 - Brilliant education pack
E124 KID DISK 2 - more education programs
E125 JURASSIC PARK Info on dinosaurs
E126 CHILDREN SONG 2 contains 5 excellent songs
E127 MEMORY GAMES 2 Brilliant memory games
E128 ASTRO 22 PRO.V3 - The latest astrology program that accurately calculates the position of the planets, eclipse, zodiac positions, aspects etc. RECOMMENDED
E129 KID DISK 3 (DTP). Drawing program for kids
E130 FRENCH VERB TESTER should help you with French.
E131 CULT TV DATA BASE II 2 DISK) info on early TV
E142 KID DISK 5 & 6 - 2 disks full of brilliant games
E148 CHESS & TUTOR - FULL teaches you how to play chess
E150 INTERNET - FULL guide to internet & superhighway
E161 CLI & SHELL TUTOR (help) Ideal for beginners
E162 DELUXE PAINT GRAPHIC TUTOR V 3 & 4 Recommended
E163 JAPANESE - teaches you the Japanese language
E165 KEYBOARD TRAINER An excellent typing tutor
E167 WORD POWER - spellchecker/crossword solver/teach
E163 CROSSWORD CREATOR - design crosswords
E166 CHESS II & TUTOR Brilliant Chess II games
E166 PAINT IT (not A500 1.3) latest COLOURING BOOK
E169 HISTORY OF AVIATION Vol 1 Excellent disk
E171 CHILD FAVOURITE - Education program
E175 FRANTIC GUIDE TO COMPUTER (2D) brilliant & funny
E177 CYBERSPACE 2 for Cyberspace fans
E181 SIGNITURE CREATOR customise your own signiture
E182 VIRUS WORKSHOP V4 comprehensive guide
E184 IMAGINES VIDEO 2 disks
E185 WORKBENCH 2/3 GUIDE Online help/Complete Guide to AMIGA DOS commands. Very useful.

EDUCATION PACK

OUR BEST SELLER. 5 DISKS OF THE VERY BEST IN EDUCATIONAL PROGRAMS & 21 GAMES PACKS SUITABLE FOR ANY AMIGA (A500-A4000) ONLY £4.99

MUSIC

M001 BEASTY BOYS - We Want Some Pussy songs
M002 MICHAEL JACKSON - Song BAD
M003 DO THE BARTMAN
M005 U2 - 500 (not A1200)
M006 BAT-DANCE REMIXED
M017 GUNS & ROSES - YOU'RE CRAZY
M018 MONEY FOR NOTHING - DIRE STRAITS HIT SONG
M027 BLUES HOUSE (2 disks)
M029 SAFE SEX DEMO - Very funny
M044 BETTY BOO (2) needs 2 drives (brilliant)
M056 SGT PEPPER (2D)
M058 MADONNA - Heavy Panky Song
M084 C64 GAMES MUSIC
M115 MAHONEY & KAKTUS 2 - 40 tunes compilation
M125 ADAMS FAMILY
M150 TIFFANNY - I Think We're Alone Now
M171 MADONNA - (Like a Virgin)
M173 JANET JACKSON - RHYTHM NATION
M177 PET SHOP BOYS
M184 SAM FOX (Please Me)
M186 MADONNA (Rescue Me)
M188 JOE LE TAXI
M189 MICHAEL JACKSON (Smoot Criminal)
M194 JESUS ON E`S (2 disks)
M205 RAVE - More Rave
M262 A TO Z OF C64 GAMES MUSIC (4) Brilliant
M314 DICK TRACY (Madonna) (2)
M335 STAR TREK & STAR TREK NEXT GENERATION (2)

18 DEMOS

Age 18 and over only

X80 CINDY CRAWFORD (2)
X74 MADONNA (SEX) (3)
X01 SHOWER GIRL
X03 BODY TALK (2)
X09 MARIE WHITTAKER
X24 SABRINA SPECIAL
X25 DIE FILKINGER
X26 MADONNA EARLY DAYS
X28 KATHY LLOYD
X34 MA-MAID
X31 CALENDAR GIRL
X32 MAYFAIR
X33 UTOPIA (4 DISKS)
X45 GIRLS OF SPORT
X49 PAGE 3 GIRLS
X70 GON GON GIRL
X71 TINA SMALL

X91 Calendar girl 95

ANIMATIONS

A005 FILLET THE FISH long story animation
A013 SPACE-PROBE- in search of Alien life form
A014 THE RUN - Lotus being chased by police
A072 LIFES A BITCH - Hmmm for 18 + only
A138 WORLD (2) style slide & music. Brilliant
A173 HELL RAISER 2 - CREEPY horror show
A179 THE LIVING WORLD SLIDE SHOW - creepy crawly
A187 PROJECT OF THE DEEP (2) Massive alien creature
A190 TERMINATOR 2 (2) - Brilliant
A193 NEMESIS COMICS 6 excellent comic.
A208 THE LADY AND THE TRUMP - short movies
A213 CANNON FLIGHT- Brilliant graphics
A215 MADONNA SLIDESHOW - Not for Madonna fans
A225 ANOTHER 5 WAYS TO KILL A MOLE - Classic
A226 NEW VI2 - Here for 18 + only
A230 THE TOUCH 3D - Superb Spaceship anim
A231 ALIENS II - Definitely the best Aliens
A236 PIZZA CHIP - for Comic fans
A248 PERVERSE SLIDES - funny but rude
A255 BART SIMPSON MEGA DEMO (3 Disks)
A262 STAR-TREK the Next Generation SS
A288 SATURN FLY BY - Remarkable anim VOYAGER II
A290 CHRISTMAS ANIMATION - Ahhh to lots now
A293 MANGA (2) very cute Jap chic & robots demo
A295 MAYHEM ON WHEELS 3-real motorbike/car crash
A306 TORNADO Slideshow
A320 GORE - gruesome Horror
A336 FAST CAR - Loads of fast & inexpensive show
A414 MANGA WORLD 3 - More brilliant Manga Pics
A417 AKIRA X-MEN - more MANGA comic Shows

VIDEO TITLERS/TOOLS

U181 VIDEO NOTE database for your video collection.
U451 VIDEO APPLICATION (2 disks) many video titler prog
U550 VIDEO TOOL (3) loads of video utils. Recommended
U664 TELESUSTITLE - new video titler
U665 VIDEO MAKER V4.2P - The latest in video
U352 DESKTOP VIDEO 1 & 2 (best video titler tool) cataloguing systems. Dozens of functions
U671 TELE TITLE 2 - Great new VIDEO titler
U513 VIDEO TITLER (2 disks) more VIDEO TITLER-BEST
U600 VIDEOSCROLL 2 (not WB 1.3) Easy to use Video titler loads of features
U921 WEDDING VIDEO ANIM (2 disks) Requires D.Paint 3+. Very high quality
U922 CAPTON MACHINE excellent Video titler
U923 VIDEO MANAGER (Not A500 1.3) Video cataloguing system
U925 Video Titler - very good video titler

U757 150 PRINTER DRIVE

LARGEST COLLECTION OF PRINTER DRIVERS

U.F.O. THE CLOSE ENCOUNTER

INCREDIBLE DISK SET PACK WITH REAL LIFE DOCUMENT REPORT. SIGHTING, U.F.O, KIDNAPPING ETC + MANY UNRELEASED. COMPLETE STAR TREK MANIA PACK. ONLY £4.95. PLEASE STATE AMIGA WHEN ORDERING

REPORT OF CLOSE ENCOUNTER WITH THE U.F.O. BEING BRILLIANT & MUST FOR ALL RECOMMENDED

compatible with all Amigas

6 DISK SET ONLY £5.95

PRINTER MANAGER

U427 PRINTER-STUDIO excellent print results
U599 PRINTER TOOL - includes typewriter, spooler etc
U792 PRINT LABELS print disk labels/banners
U793 PRINT MASTER Brilliant for all printers
U794 SEIKOS STUDIO - For all Seiko printers more specific printer driver for the above printer
U733 DIAMOND STUDIO - 9 & 24 pin. printer driver & util
U734 CANON PRINTER STUDIO not A500 (1.3)
U735 STAR PRINTER STUDIO - For all STAR printers - shareware
U782 CITIZEN PRINTER MANAGER for all Citizen printer owners containing many useful printer util & drivers
U784 CITIZEN PRINTER STUDIO - For all Citizen printers. Includes for use with Cannon printers
U757 150+ PRINTER DRIVER largest collection

STAR-TREK MANIA

IF YOU LIKE QUALITY STAR TREK RAY-TRACE ANIM, THEN THIS PACK IS FOR YOU. 5 DISKS OF STUNNING STAR TREK ANIMATIONS. BETTER THAN HOLODECK SERIES. COMPLETE STAR TREK MANIA PACK. ONLY £4.95. PLEASE STATE AMIGA WHEN ORDERING

Printer Pack

5 disk pack with all the latest printing programs specially designed for printing out high quality documents, text & pictures etc and it is even able to print out A5 Booklets (very handy). Easy to use. A must for any Amiga owner with printer.

Printer Pack (5 disks) only £4.99

A500 WORKBENCH 1.3 ... U330 WorkBench 2.04 emulator makes your computer run many new A500 plus/A600 software

A500+A600/A1200/A4000 use U329 Relockit V1.4 to make your computer run many of the old A500 software.

U329 RELOCKIT 1.4 OR U330 Workbench 2.04 only 99p

WORKBENCH EXTRA UTILITIES

Collection of the best WB utilities like ToolDeamon, Snoopdos V3, lost file finder, Memory monitor, Latest virus killer, Wb Disk copier etc. much too many to list.

All on 2 disks only £1.98 (not WB1.3). RECOMMENDED

GAMES CHEATS

Do you play your favourite game for ages, but can't get to the end of level or game?

Having problems with some games?

5 disk pack with 1000s of game cheats/help/level code action replay pokes etc. Should help you finish many games. Suitable for all Amigas – ONLY £4.95

AMOS

This is the largest collection of Amos hints, tips, graphic, procedures, routines, subroutines, graphics, utilities, sprite, scrollers routines, library & some of the top games & utilities source code. This pack will help you write more quality, compact & much faster programs.

10 DISK PACK...£10.90 compatible with all Amos & Amos Pro

TOP VARIOUS UTILITIES

U001 A-GENE help you trace your family tree.
U024 D-LOCKS protect your disks & files
U027 ULTRAPAINT & SURF paint & 3D model program
U029 CARD DD programming language
U046 DARKSTAR no.2 (vol 2-5) loads of utils
U058 DISK MAG CREATOR create a disk magazine
U117 NORTH C compiler (2) brill prog language
U122 SID 1.6 copy/delete/move file made very easy
U131 TETRA COPY play Tetris while copying disk, great
U135 MOST USED UTILITIES (6) very useful util collection
U145 XCOPY PROFESSIONAL very powerful disk copier
U146 C-MANUAL 2 (4) Teaches you how to program in C
U153 ASSASIGN PRINTER 5 utilities very useful
U159 PAINT AND ANIMATE still the best
U170 BIORHYTHMS V4.01 display your own biorhythms
U184 MASTER SEKA V1.6 complete Assembler language
U186 UNLIMITED DISK CREATOR all tools on are here
U187 M COMPUTER AID DESIGN - Was commercial product
U188 SHOWIZ slide show maker 24+ wipe effect
U191 SID 2 copy/delete/move/run file using a mouse
U220 AMOS-PAINT V, good paint package, lots of features
U222 GRAPHICS UTILITY(3) lot of graphic converter tools
U225 AUDIO SOUND TOOL (A500) (A1200)
U226 50+ MOST USE UTIL loads of very useful utils
U229 SLIDE-SHOW CONSTRUCTION KIT easy to make advanced slideshow with many options
U242 IMPLODER 4.0 disk file compressor. Excellent
U243 The A-T COPIER (not WB3) 13 disk copier
U254 PRACTICAL UTIL loads of practical programs, brill
U257 DISK CRUNCH Compilation not WB 2
U262 LAND BUILDER create realistic landscapes
U264 COPY & CRACK TOOL - for anundrone
U267 P.C. Q PASCAL (2 disks) programming language
U300 MESSY SID II read/write PC/MAC etc files.
U301 AUTO DISK LOGGER recognise your disk
U321 GRAPHIC Util 1 (3) loads of brill graphic utils
U324 GRAPHIC util 2 (3) even more Graphic tools
U333 SCENERY MAKER more landscape generators
U334 EMULATOR COLLECTION II (lots of emulators)
U335 FREE COPY back up commercial games
U337 ACCESS TOOL - perfect for object designer
U338 MULTI VISION (2) disk/files utilities
U340 HACKER-TOOLS many ripper tools
U350 DISK TOOL - predict how many disk you'll need
U351 RACE RATER Similar to above, but both
U358 STAR CAT 2 - create catalogue disk, easy
U359 SECTOR find lost files on floppy & hard drive
U360 R.P.G (2) adventure creator
U363 DISK REPAIR KIT -s ctvage & repair damaged disks
U364 MED V3.2 (latest) Brill music maker
U367 P-SUITE add colour/animate to text?
U368 SUPER CLI - fast disk, fast load etc. OK
U391 FORTRAN complete programming language
U392 AMIGA DEX - Good database program + more
U393 DISK-MANAGER lot of useful utils
U397 FORM UNLIMITED design any type of form
U399 FRACSCAPE V1.2 new fractal similar to VISTA
U400 SOUND TRACKER V2.6 music maker
U401 PLUS ISSUE(not WB1.3) Vol 1-14 each disk pack with various W92 & WB3 utilities. Recommended
U420 SPEED BENCH (not WB1.3) create auto boot WB
U425 NIB 2 very popular copiers
U436 The RIPPER COLLECTION (not WB3) many ripper programs
U440 RADBENCH nicoverable WB (state Amiga when order)
U442 SYSINFO test & print info on your AMIGA sys
U444 FONT CONTENT creator/edit/design new fonts
U449 AMOS UPDATE 1.4 add more commands for AMOS
U457 WHOM 2 (3 DISKS) Detail/database on 51 films
U463 FINAL FONTIER 1 (2 disks) Star-trek magazine
U473 FINAL FONTIER 3 (4 disks) Star-trek magazine
U480 HARD DISK CLICK - Hard Drive menu system
U490 B-TEC UTIL - Amazing pack with 207 utilities
U491 PROTRACKER V3 - Best music writer program
U492 WORK-STATION (2 disks WB1.3 only) WB replacement
U495 HARD DISK UTIL brill collection of Hard disk util
U496 B-FILE PRINT (A500 only) lots of printing utils
U498 WORK-MATE - 15 brilliant disk utils compilation
U501 THE MUSIC CONSTRUCTION KIT (state Amiga owned)
U502 SCORPION MAPPER II - Amazing maps of game levels
U503 PROCALC Super full function Calculator
U504 HOT-STUFF - more util disk compilations
U505 VIRUS-KILLER & DISK REPAIR/REPAIRE KIT
U507 DCOPY V3 PROFESSIONAL - Excellent Disk copier
U509 ULT BOOT BLOCK 40+bootblock generator/maker
U510 ULT BOOT BLOCK(2) 100+ bootblocks + more
U512 ZIRCON UTIL - 30 MOST USEFUL UTIL 2, brilliant
U515 WIT COMPLETE UTIL 20 most used utils
U516 AMOS FRACTAL fractal prog
U521 SPECTRA PAINT III rival to Dpaint
U542 SID 4 - Most POWERFUL more user/passwords etc
U550 SCENERY CONSTRUCTION KIT fractal, recommended
U551 ASSASSIN BOOT BLOCK over 50 bootblock protector
U555 DIAMOND CRACK ONE (not WB3) password maker
U561 PERM CHECK a full POOL PREDICTION program
U568 ICON CONSTRUCTION KIT icon making program
U586 ICON ready made (4 disks)
U582 DPAINT GRAPHIC TUTOR (not WB3) excellent
U584 NEW SUPER KILLER Regnine & kill 120+ viruses
U590 600 NUMERIC PAD EMULATOR (A600 only)
U591 DEGRADER (not WB 1.3) A500 emulator
U592 KILL AGA - make older programs run on A1200
U600 C64 EMULATOR II util & document
U601 DISKSALV II + ABACKUP (not WB1.3)
U603 THE CHEAT COMPENDIUM for over 450 games
U620 HOW TO CODE IN C (2 disks) + many examples
U622 ACTION REPLAY V1.3 - cartridge on disk
U623 ACTION REPLAY V4 (A1200 ONLY) same as above
U645 PC EMULATOR V.2.31 (WB3 only) SVGA PC emulator
U650 COPY & CRACK TOOL 2 more powerful copy programs
U665 S-KICK various version of kickstart, recommended
U680 NEW SUPER VIRUS KILLER (not WB3) kill 316+ viruses
U682 ASTRO 22 V3 latest Calculate star/sun pos/ions
U685 DISK MANAGER V3 create catalogues of all your disks
U687 AMOS PROFESSIONAL UPDATE added extra commands
U689 FORCASTER V2 - horse racing prediction program
U690 ASSASSIN COPIER (lots) many copy/dicopy etc
U691 ASSASSIN HANDY TOOL 2 (500 1.3 only)
U692 ASSASSIN HANDY TOOL 3 more utils
U693 ASSASSIN HANDY TOOL 4 even more utils
U694 SUPER DUPER 3. (NOT WB1.3) V.fast disk copier
U695 P.C.Q complete Pascal language with compiler
U696 AMITEL DATABASE (not WB1.3) database tool
U699 MEGACHEAT V3 + even more game cheats
U700 ANIMATION CONSTRUCTION KIT V1.2 + good
U702 V MORPH V2.create smooth morph animation
U703 POOL TOOLS 2 (Latest) predicts horse racing
U705 THUMBNAIL creator creates disk board+examples
U707 GAME TAMER (3 & 4) - (2) Even more games cheats
U708 LAST WILL & TESTAMENT - write your will
U710 PERFECT-PAINT 2Z Very easy to use paint packages
U713 CDTV v2 PLAYER play CDs while in workbench
U714 ENGINEER KIT various test kits for Amigas
U718 MAGNUM 1.9 REGARD the best disk magazines creator
U721 FONT FARIS V2 + loads of fonts + font viewer
U722 EXOTIC RIPPER lots of new sound/graphics ripper
U724 PARNET SET UP (2) requires for the connection
U725 PARNET CABLE MAKER INSTRUCTION project save CCCs
U726 AREX MANUAL (not WB1.3) complete manual. Highly rec
U729 ASSASSIN BOOT UTIL 50 boot block creator utility
U730 SOFT-KEA (2) (A500) (A600) (A1200) 3 meg
U731 A - Z GAMES CHEAT for over 500 games
U732 MINI MORPHS create TERMINATOR 2 effect
U736 AMOS MAKER 3+ hundreds of ready made, brilliant
U737 ASSASSIN CRUNCH & COPY TOOL (WB 1.3 only)
U738 S.KICK PROFESSIONAL v3.2 Various versions of K-start
U739 TURBO IMPLODER V3.1 powerful disk cruncher
U740 CROSS DOS 6.1 plus rewerite PC-AMIGA disk
U741 HD-DISK TOOL BOX + many more Disk util recommend
U742 HOW TO CREATE AUTOBOOT DISK complete + util
U743 HARD DRIVE UTILS v3. ABOOT BOOT DISK.
U744 FRACTAL MANIA+BIOMORPH Brilliant collection
U746 AF WORKBENCH (WB 1.3 ONLY) replacement
U746 3D GARDEN DESIGNER can view from any angle brill
U747 ASTROMY V2 predict star planet prediction
U748 ILLUSIONS DRAWING program like Dpaint
U749 DISK REPAIR 3 (floppy & HD) include soft-protect.
U750 MUSIC CATALOGUER (not A500 1.3) very easy to use
U751 SYSTEM CHECKER TOOL must for any Amiga owner
U752 EPU STACKER double the storage of your DRIVE
U753 HARD DRIVE UTILS + lot more Hard drive util
U754 PARBENCH installer (complete)
U755 PRO CAD electronic latest circuit board designer
U758 WB MENU LAUNCHER - menu system, easy to use
U760 ICON PLUS (3 DISKS) Hundreds of stunning ICONS
U761 RELOCKIT 1.4 latest WB1.3 emulator
U762 FAKE FAST MEMORY make older software run
U766 MICRO FAX 4 (2) project (build a fax machine)
U777 TELE-TEXT RECEIVER project. Highly recommended
U781 DOSTRACE V2. display information why some programs refuse to run. Also monitor Amiga activity. RECOMMENDED
U783 POOL WINNER GOLD must for all gamblers
U784 DMS Floppy disk copier 3 disks into 1. Brilliant
U789 HARD DISK MEMORY V2 use HD as memory (re MMU)
U790 WINDOW BENCH V2 (WB 2/3) 2 disk new workbench replacement, include lots of useful utilities
U791 COMPUTER DIAGNOSTIC TEST V9 Amiga complete system tester
U800 PRINT A CARD includes many ready made
U801 MAIL SHOT 2 mailing/printing util
U

COMMODORE VIC 20 (plus) emulator + 30 top Vic 20 Game

It's here finally the COMMODORE baby VIC20, this pack comes with over 30 top Vic20 games like COSMIC CRUNCHER, RAT-RACE, SARGON II, CHESS etc.

All games are on disk & run directly from disk. We have 2 versions available for the standard Amiga & special AGA for A1200-A4000. Please state Amiga when ordering.

Only £2.99

SUITABLE FOR ANY AMIGAS

PC

We now have the following pack for PC

All packs come with emulator

C64 & 400 Games pack.....£23.99
Spectrum 48k & 400 Games.....£19.99
(See Amiga description – Some games may differ)
Amstrad CPC & 100 Games.....£13.99
ZX81 & 130 Games.....£11.99
When ordering please state you own a PC. This is to avoid Amiga users from ordering this pack.

COMMODORE 64 V3

This is the very latest & still the best C64 emu for the Amiga. It fully emulates the C64 computer so you can play all the top C64 games. eg:

JetPac, Rambo, Batman, AirWolf & many more on your Amiga. You can also even write any program in C64 basic etc. Just like owning a real C64 computer.

All our C64 pack:

- Pack comes on Amiga disks
- Play directly on any Amiga
- Printed loading instructions
- Print game list (essential)

COMPATIBLE WITH ANY AMIGA

C64 V3 & Games Pack

C64 & 45 original games...£4.99
C64 & 100 original games...£8.99
C64 & 200 original games.£16.99

Note: All games have been fully tested & listed. Our existing 45 game pack as previously advertised has been replaced by these new 45 games.

ZX SPECTRUM 48K V2+

With any Spectrum pack, it is possible to play all the original Spectrum games. Besides playing games you can write your own program in Spectrum basic. Just like owning a real Spectrum computer

All games packs come on Amiga disks & run on any Amiga. Full printed loading instructions are included. Consetible with all Amigas. Special AGA version also included. All Spectrum packs contain different games.

SPECTRUM & GAMES PACK

SPECTRUM + 50 GAMES PK1 ONLY £4.99
SPECTRUM +100 GAMES PK2 ONLY £7.99
SPECTRUM +200 GAMES PK3 ONLY £12.99

SPECIAL OFFER PACK 4
Take SPECTRUM pack 1, 2, 3 & extra 50 new games FREE. Total 400 games for only £19.99

NEW New just released ZX SPECTRUM V1.6b & 1.6b AGA runs much faster, can be added to any Spectrum pack for only 50p extra. For any Amiga except KS 1.3.

Special Offer

C64 & 45 games pack
Spectrum V2 & 50 games
Vic 20 & 30 games

All 3 packs for only £9.99

See description left for details of each pack. When ordering please state which Amiga you own. So we can send you the correct pack.

Note: This offer cannot be used with our FREE disk token. Offer only available with this token. Offer ends 15/8/95

DISK DRIVE HEAD CLEANING KIT

Improve loading & saving program help stop damage to disk etc.

ONLY £2.99 OR £1.99 with any order over 5 disks

AGA A1200/A4000

NOTE This AGA listing is for the A1200/A4000 only.

AGA001 EXTENSION DEMO Stunning demo with fast landscape anim and a rotating city, still regarded as the best AGA demo
AGA002 FRACTAL GENERATOR stunning fractal in 256 colours
AGA003 WORKBENCH HACK many hack/toy/blanker ect
AGA006 NEW SUPER KILLER know & kill over 316 types of virus, must for all A1200 owner
AGA007 MINDWARP one of the very first demos for the A1200
AGA008 KLONDIKE DELUXE AGA (3D) Simply the best A1200card games with glamourous ladies as card faces 18 + only
AGA011 SLEEPLESS NIGHTS 3
AGA012 FUNKY GROOVE Truly A1200 Demos
AGA013 MOTOR INVADER 2 (2D) Very playable INVADER clone set inside your computer. Loads of fun like degrader etc. Not for beginner
AGA023 U-CHESS the best chess program games so far but requires 4 megbytes. Brilliant graphics
AGA024 WORKBENCH 3 SCREEN Great backdrop for A1200 (not beginner) GIF BEAUTIES is one of the highest quality/girl Pictures available (1-18)
AGA041 GIF BEAUTIES (1-18) pictures of raunchy women who don't seem tobe wearing many clothes
AGA62 BODYSHOP 1 More of above
AGA64 BODYSHOP 2 (2D) More of above
AGA66 BODYSHOP 3 More of above
AGA68 BODYSHOP 4 (2D) More of above
AGA70 BODYSHOP 5 (2D) More of above
AGA72 BODYSHOP 6 (2D) More of above
AGA74 BODYSHOP 7 (2D) More of above
AGA80 FITCHICK 1 See BODY SHOP for description
AGA82 FITCHICK 2 (2D) More AGA#1 for description
AGA84 FITCHICK 3 (2D) See AGA41 for description
AGA90 ASSASIN A1200 FIX DISK 1-Brilliant collection of degrader that should get most of the old PD games/software to run on the A1200. A must for anyA500 owner just upgrade to an A1200 - RECOMMENDED
AGA091 ASSASSIN A1200 FIX DISK 2 (new) like above but with more collection(different) degrader - recommended you buy both disks - super
AGA094 RELOCKIT V1.4 latest. Run A500 SOFTWARE
AGA097 A1200 UTIL - AGA TESTER, SYSINFO etc
AGA098 ACTION REPLAY V4 Complete ACTION REPLAY on disk.
AGA099 MADFIGHTER 2 brilliant street fighter clone
AGA100 AGA BLITZ SCREEN BLANKER
AGA101 FAST GIFF 2 display GIFF pics In Workbench.
AGA102 AGA DIAGNOSTIC - NEW system tester
AGA103 BLACK BOARD AGA decent image processor
AGA104 REND 24 Similar to above
AGA105 QUICK GRAB AGA 1- can grab AGA screens
AGA110 WORLD BEYONDS 1 (3) stunning 256 COLOUR fantasy art. Leaves Atari users breathless
AGA114 SMELL LIKE CHAOS NOS Brilliant demo raytrace pictures ever released on the A1200
AGA121 MAGIC FACTORY 1 STAR TREK (5 disks)
AGA133 AGA UTIL v1 DISK util compilation
AGA134 AGA UTIL v2 more AGA util compilation
AGA135 AGA UTIL V3 more of above
AGA136 AGA UTIL V4 even more of above
AGA137 IMAGE PROCESSOR IFF picture processor.
AGA138 MULTIBOOT- 4 various versions A500 EMU
AGA139 WB3 HARD DISK PREP & INSTALLER installing WB 3 /pref/etc on the hard disk
AGA140 CROSS DOS PLUS v5.1 read/write PC files
AGA141 FARRARI ART 2 (2D)- load of Ferrari & ray trace
AGA142 SUPER LEAGUE 3 - latest manager games
AGA144 SPEAK & SPELL - educational software for kids
AGA145 BIG TOPS (18 + only) Hmmm
AGA146 KELOG LAND - brilliant platform games - get - a must
AGA150 ACTION REPLAY V5 - NEW UPDATE TO V4
AGA160 GIGER TRIZ very playable 256 colour tetris
AGA162 FATAL-BLOW new STREET-FIGHTER 2 clone
AGA164 CINDY CRAWFORD Vol 1 (2 disk) latest release
AGA170 INFESTATION (2 disk) The ultimate AGA demo
AGA170 CINDY CRAWFORD Vol II (2 disks) amazing
AGA172 VIDEO TRACKER AGA - ultimate demo maker
AGA174 MAGIC WB EXTRA vol 1 & 2 (2 disks)
AGA180 GIF BEAUTIES Vol (11-18) 8 more girl disks
AGA189 FRIDAY AT 4 other brilliant AGA demos
AGA190 ASSASIN MULTIVISION AGA pic viewing util
AGA193 ALIEN FRENZE 2 player blasting + power up
AGA194 BALL TIME SENSUAL (2 disk) SPACE BALL 2
AGA200 MASQUERADE 2 disk brilliant puzzle games.
AGA202 RAM JAM 94 it can be done (2 disk)
AGA203 EXPLOIT 2 DEMO new effect well done.
AGA204 COMPLEX ORIGIN 2 disk requires 2 disk drives
AGA206 TREASURE OF TUTANKHAMUN-education tool
AGA210 CHANEL Z DISK MAG (2D) A1200 disk magazines
AGA220 KLONDIKE NEW CARD SET (7disks)
AGA230 LOVE 2 disk - simply brilliant
AGA231 AGA UTIL 7 & 8 (2 disks) more util
AGA234 KNOTTY Stunning AGA sliding picture puzzles
AGA240 LOTTERY WINNER hopefully will improve your chances of winning a jackpot. GOOD LUCK
AGA241-258 AGA GAME-GALORE AGA 01-18 We stock the entire collection of the AGA GAME GALORE each disk pack with quality AGA compatible games. RECOMMENDED
AGA251 PACKMAN AGA - the best pacman yet
AGA252 ROCKET PD - Super thrust clone brilliant graphics for 1 or 2 player
AGA253 REAL DEMO stunning special effects
AGA254 DIRT AGA Brilliant 256 colour effects
AGA255 DELIGHT EXPLORE excellent demos
AGA256 KEFEREN AGA Demo lots of effect
AGA257 SOME JUSTICE 94 Demo of the month, brilliant whirl effect. RECOMMEND
AGA262 TO THE DEATH very good STREET FIGHTER clone with very good graphics
AGA263 GEORGE GALAXO (2 disks) brilliant multi-level shoot/platform game. RECOMMENDED
AGA265 MISSILE DEFENCE ZENON (2 disks) Brilliant 3D missile commander with fantastic graphics
AGA266 TEAM HOI DINO PLATFORM excellent dino platformer. this disk was a commercial game
AGA268 TEAM HOI SAGA. The final chapter (3 disks). The ultimate in demo, comes on 3 disks
AGA269 PAYWORLD (3 disks) very impressive
AGA270 CREAM DEMO - lot of 256 Vector effects
AGA273 EMPTY HEAD lots of vector/ ray trace
AGA274 MUSIC 2 SURVIVE 2 disks 8 excellent music master pieces. Well worth getting
AGA271 RAVE MAXIMUM OVERDRIVE II (2 disks)
AGA278 CHANNEL Z ISSUE 1 (AGA) (2 disks) AGA base disk magazine. RECOMMENDED
AGA279 AGA Utilities including Cache X, Superduper V3, New Menu 2 etc. RECOMMENDED
AGA280 CHANNEL Z issue 3 (2 disks) AGA disk magazine - get the most out of Dpaint
AGA282 CHANNEL Z issue 5 (2 disks) AGA disk magazine topic. Demos/music
AGA285 WORKBENCH BACKDROP VOL (5) Stunning AGA backdrop for WB
AGA286 SPECTRUM EMULATOR V1.3 AGA Latest Spectrum emulator for AGA only

SOFTWARE 2000 FREE DISK TOKEN

Buy 10 + disk & choose any 1 extra disk FREE. Offer with token only

NEW–TITLES

AGA306 ASSASIN FIX DISK 3-degrade util for run old software on the A1200/A4000s
U978 DELUXE PAINT 4 BUDDY SYSTEM-Get the most out oDeluxe Paint Instant Help & it even explain every every function/command in Dpaint in great detailed. RECOMMEND
U961 VIRUS CHECKER V6.51. The Very latest V-Killer
U962 DIRECTORY OPUS V4 add Extra Command
U963 MAGIC WB & MAGIC MENU ..Both Latest version
U969 POWER-CACHES Speed up disk loading.Accesses
U970 HARDDRIVE SECURITY II Large collection of HDsecurity programe eg Lockout2,Password & many more
U971 HARD-DISK & FLOPPY DISK DOUBLER (Epu) Not WB1.3
U972 PAGESTREAM V3 F fix.Very Latest version
U973 CHEAT FOR 800 + GAMES, LEVEL CODE Cheat V3.3.(2)
U974 HD GAMES INSTALLER 2 install fops games to HD eg ZOOL2, Rise Of the robot,Mortal Combat2 & many more
U975 DMS V2.04 Pro. Crunch entire disk. (not1.3)
U976 MAGIC SLECTOR V1.4-Change Magic WB back drop
U977 MAGICWB ICON ARCHIVE (3) 1000`s of MGwb icons
U979 ICON ACHRIVE(3) 1000`s of normal Icon(any Amiga)
U980 VIDEO TRACKER 2 DEMO MAKER (AGA Ver also avail)
U981 VIDEO TRACKER-(5) Video module & effect for above
G898 ALIEN GENOCIDE (2) Shoot aliens set in space.
G899 PUCKMAN. One of the better PacMan arround.
G900 SUPER-BATTLE ZONE.Vector Tank games(not WB1.3)
G901 M*A*S*H a sequence to ANTWAR play very similarto LEMMING & WORM but with load of Weapon (Brilliant)
G903 BOULDERDASH CAVE CONSTRUTION KIT (2) editor
G904 LAST SOLDIER (2) multilevel platform gamesG905 CBBERTECH (2) exclient ALIEN BREED Clone
G906 HANGMAN New version of this popular HG gamesG907 ACE SPACE nice Platform games
G908 COLOURMANIA slider/Klatriz type puzzle games
A430 JUPITER IMPACT. real Picture of the collisionof jupitor and the asteroid. Brilliant! RECOMMEND
AGA295 DE-LUXE MONOPOLY- Board game.V addicte
AGA296 DONKEY KONG Arcade classic conversionAGA297 BOMB PAC Extreamly good to play
AGA298 ROCKET 2 sel deep underground brillantgraphic. even better with 2 player
E25/AGA299 SCRABBLE-Now fully run on all Amiga
AGA300 MAGIC WB V2. Demo of version 2
AGA302 TUTANKHAM II(2) Education-Egyptian MUMMY
AGA303 PAMLA ANDERSON.(2) 18+ only BayWatch Babe
AGA304 BODYSHOP V8 (3) more bikini beauties
AGA305.TIMEZONE (2) V.Good graphic adventures.
AGA307 DENTAWOL# dooms demo
AGA308 NAXIS -Really show what AGA graphic co do
AGA310 FEARS (2d)- dooms clone demo
AGA312 JINX (2d) arcade puzzle type games.Brilant
AGA313 RAM JAM THE TASTE DEMO.very wicket demo.
AGA315 ILEX MYSTIC. New AGA demos
D400 VIRTUAL WORLD DEMO.
50 ALL NEW SPECTRUM GAMES (4).for SPECTRUM Emu
M360 DYNAMO (2D). Excellent music disk
M362 RAVE NATION -Another brilliant music disk.
D360 SONIC THE HEDGEHOG. Brilliant demo
G901 M*A*S*H a sequence to ANT WAR play similar toLEMMING & WORMs but with load of Weapon (Brilliant)
E210 LEARN & PLAY 3 Latest Education & Games
E240 BARNEY THE BEAR GOES CAMPING (2d)Brilliant teach your child about animal
E241 COMMS GUIDE V1.1
Every thing you need know how to connectto the INTERNET & BBS. must for any Amiga owner.
U966 VIRUS-WORKSHOP V4. 7-the best Virus kiter
U967 GRAPHIC-CONVERTER (2D) most format cover
U968 TURBOCAT Auto catalogue your disk library
U989 AUTOBOOT DISK MAKER V4 -for making your own compilation disk. amust for all amiga owner
automatic boot disk. Must for every Amiga owner
U990 800+NEW GAMES CHEAT (2d)for any gameplayer
U991 PD-CATALOGUE CREATOR-for your own libaray
U992 SCANS-to-Ink & more for your family tree
U993 IMAGINE STUDIO V2.(2D) The best PD image (picture) processor available rival even the commercial costing hundres of pound. (not k1.3)
AGA320 MAGIC-WB ICON CREATOR. up to 256 colour
E241 MATH ATTACK- Maths relate games for kids
E242 ANIMAL-LAND-Ideal for young kid. Execel
E243 PICTURE-MATHS-Maths program for kids
E244 APOLO 2 (2d)-detail Mission of Apollo2
G910 HARRY-HADDOCK - Brilliant platformer games
G911 ART OF BREAKING HEAD (6d) Massive Mortal Combat clone(Not for kid). Not WB 1.3
G912 MANGLE FENDER -Brilant, Smash up othercar/tank ect to win, extreme y addicted. get it
G913 ARCADE CLASSIC Vol 1 & 2 (2 d) collectionof all the all time classic arcade games. bril
GRAPE VINE 20 (2d)- the best disk magazine
G914 HELICOPTER-play like Desert strike
G915 COW WARS. Very addicted 2 player games
G916 ISLAND -Play like Monoply.
G917 MATCH (2d)-Very addicted memory game.
G918 FISHY FISHY very good games.
AGA320 HOLONOIKE 2 (3disk) Hd require & 2meg+we aslo have a list of 25 cards for above.
U981 IMAGINE STUDIO V2 IMAGE PROCESSOR.rival to commercial 1P costing 100`s ££ (not 1.3)
U982 TEXTURE STUDIO. Render Various Texturefor use with Imagine 3 ect req FPU.(not 1.3).
U283 PRO-GAMBLES V2 must for all gamblers.
AGA321 HOT-BABE 1 (2)
AGA322 HOT-BABE 2 (2disk) Stunning model
AGA323 HOT-BABE 3 (2)
AGA324 HOT-BABE 4 (2)
AGA325 HOT-BABE 5 (2)
G919 COP THE LOT Pro Latest Lottery preditor
G920 LOTTERY PROFFESIONAL This version use the prediction from USA & Canada.

BUSINESS SOFTWARE

U907 TEXT PLUS 2.2e easy to used word processor
U923 BANKING Home account program
U086 LABEL DESIGNER design your own labels
U087 DALV 1.2 Excellent Database prog. RECOMMENDED
U144 DESKTOP PUBLISHING The best PD DTP available
U154 BUSINESS CARD MAKER (not A1200) brilliant
U156 a30 BUSINESS LETTER very handy. Get it now
U811 BUSINESS CARD MAKER - can Print in color
U101 DATA BASE WORKSHOP (2) brilliant PACK
U161 SPREAD SHEET Very easy to used spreadsheet
U163 QUICK BASE Very powerful Database, Easy to use
U112 RM DATABASE powerful database + full DOC
U114 AMBASE - Professional ! The best database yet
U227 TEXTRA Can edit serval document at once
U239 FLEXI BASE Small easy to operate database.
U236 PENNY WISE Very powerful database.
U97 VISCALC Great database lots of fuctions
U98 TEXT-ENGINE V3.4+ Awesome wordprocessor
U343 LITTLE OFFICE - databases/wordprocessor/spreadsheet
U344 HOME BUSINESS JOURNAL - Easy to use database
U357 BOM APPETIT DATABASE many receipt.
U364 HOME ACCOUNT-Account program
U368 AMICASH regarded as the best account prog. Excellent
U369 JOURNAL full feature account program
U380 LORAN NOTE BOOK database & word proc.
U390 DATA BASE compilation - best seller to date
U398 MORTAGE CALC calculate mortage repayment rate etc
U426 MONEY PROGRAM very good account program
U437 ACCOUNT MASTER V2.8 new account program
U520 HOUSE INVENTORY - ideal for home insurance
U599 ADDRESS PRINT V2.1 Store & print addresses
U567 TEXT-PLUS V 4.0 pro requires HD & 2meg
U691 TEXT ENGINES V4.1 latest 36,0000 word spellchecker.
U680 INVENTORY 2 details of home contents, for insurance
U712 EDWORD PROFESSIONAL buy the best wordprocessor
U722 EASYCAL + massive spreadsheet max 32563 cells
U716 PAY ADVICE ANALYZER - money prog.
U802 ADDRESS PRINTING print addresses on labels
U860 PAY ADVICE V3. account program
U810 LABLE MAKER-Print labels etc. New
U900 THE MONEY PROGRAM - Accounts
U901 LOANS ACCOUNT
U954 ONFORM One of the best Invoice makers
U959 ACCOUNT MASTER V2.2 (latest) programe up to 1000 entries per account

100 TOP DEMOS

The Largest collection of demos ever released – this pack contains over 100 top demos. Must for all Demos. Out top seller...RECOMMENDED

ONLY £7.95 suitable for all AMIGAS

SPECIAL PACKS

ONLY £4.99 PER PACK

ALL PACKS SUITABLE FOR ANY AMIGA SYSTEM

Board Games Pack 1 (5 disks)
Brilliant collection of the best board games, eg: Scrabble (new), Monopoly, Chess, Dice, Dominoes, Cluedo etc. Far to many to list

Arcade Games Pack 2 (5 disks)
Collection of the very best classic arcade games, eg: Centipede, Space Invader, Pacman, etc. & many more. RECOMMENDED

Card Games Pack 3 (5 disks)
Carefully pick the finest card games like Poker, Spade, Bridge, Blackjack, Pontoon, Solitaire, Klondike, etc. & many more

Puzzle Games Pack 4 (5 disks)
5 disk Pack with quality puzzle games like Simon, Rubik Cube, PuzzWord, Picture Puzzle & many more. Far to many to list

Mini Workbench Games (5 disks)
One of the most interesting packs. 5 disks crammed full of unique tiny but perfect replica games. A bit like playing on the Game Boy. It can be extremely funny to play a tiny game like Pacman, Tetris etc. Recommended

NEW 101 Games Pack 3

The very latest games pack. This pack contains over 100 of the very top games. Included are some of the very best Games ever released. (Many titles are still on sale as single disks). All games are selectable via menu. A must for all Games players.

Suitable for any Amiga
Only £13.99

101 GAMES 2

PRICE ONLY £12.99
This is the very latest all new 101 games compilation pack 2 containing some of the very best in PD games like Zeus, Wonderland, Dragonfires etc. Much too many to list.
COMPATIBLE WITH ALL AMIGAS
All games are selectable from an easy to use menu & most games come with full playing instructions

LITTLE OFFICE 2

New Release includes
550 Business Letters
Word Processor
Calender
Name & Address Database
All this for only £1.99
COMPATIBLE WITH ALL AMIGAS

HARD DRIVE & DISK DRIVE

Space Doubler
Epu V1.8 this doubles the size of your HD or Disk Drive storage capacity. Recommended
U971 EPU V1.6 ONLY 99p
SUITABLE FOR WB2/3

MANGA AKIRA

Brilliant pack of 6 disks containing some of the best MANGA AKIRA Games, Animations, Slideshows, Demos. All based on the Japanese MANGA. 6 disks only £5.95. Run on all AMIGAS

101 GAMES

PRICE ONLY £10.99
Brilliant collection of over 100 of the very best of PD games includes INVADER 2, Tetris, Monopoly etc. Much too many to list. Very easy to use menu system. Most games come with full playing instructions. MUST NOT MISS PLAYER.
COMPATIBLE WITH ALL AMIGAS
All games are selectable from an easy to use menu & most games come with full playing instructions

*SPECIAL OFFER – 200+ games only £19.99

See description of 101 Games Pack 1 & 2 above for details. Limited Offer

One of the finest collections of fonts available. Suitable for DPaint etc. or Scala, Word-processor, WB, DTP, etc. This Pack consists of nearly 700 different styles of fonts. Also most fonts come in various sizes, making nearly 1500 fonts (estimate). *Suitable for any Amiga (IFF font) de-LHA tool included*

1500 FONTS

Only £12.99

RAY TRACING IMAGINES

01 IMAGINE - F1 Formula 1 & 2 (2 Disks)
03 IMAGINE - 2000 Leagues & Stream
04 IMAGINE - Animal Plant (2 Disks)
05 IMAGINE - Computer+Accessory
06 IMAGINE - Fighter Plane
07 IMAGINE - Human Body Object
08 IMAGINE - Jet 2 - Helicopter etc. (2 Disks)
11 IMAGINE - Manga 2 (2 Disks)
13 IMAGINE - Musical Instrument
14 IMAGINE - Robots (3 Disks)
17 IMAGINE - Sea Quest
18 IMAGINE - Space Ship (4 Disks)
21 IMAGINE - Star War
22 IMAGINE - Stingray & Sea Obj
23 IMAGINE - Street Fighter
24 IMAGINE - Train (2 Disks)
27 IMAGINE - True Fonts (5 Disks)
30 IMAGINE - Various Object Vol 1 (5 Disks)
35 IMAGINE - Various Object Vol 2 (5 Disks)
40 IMAGINE - Various Object Vol 3 (5 Disks)

50 IMAGINE UTILITIES - (3 disks) Lots of various utils for convert, distort, create morph etc. Imagine Object. Not for beginners.

53 IMAGINE TEXTURE & ATTRIBUTE (4 Disks)

55 IMAGINE 2 BUDDY SYSTEM (3 Disks) Brilliant instant on line help/tutorial on every Imagine command. RECOMMENDED.

150 VARIOUS IMAGINE OBJECTS
150 all sorts of objects ranging form disk box to a Starship Enterprise. Only £7.99

60 IMAGINE - Aliens
61 IMAGINE - Star Trek
62 IMAGINE - Babylon 5 1
63 IMAGINE - Babylon 5 2
64 IMAGINE - Manga Babe
65 IMAGINE - Datek
66 IMAGINE - Dinosaurs
67 IMAGINE - Robocops
68 IMAGINE - Human Body (4)

SAMPLES

All samples below are in standard IFF format which will load into EG Protracker, Octamed etc.
ST-01 RIPPED MODULES Vol 1-10s Rip music from various top demos
ST-02 TECHNO MODULES Vol 1-4 Brilliant Technomusic
ST-04 INSTRUMENTS Vol 1-14 Up to 10s various instruments per disk
ST-11 ABERCROMBIES INSTRUMENTS
ST-12 DRUM SAMPLES & SONGS (2 disks)
ST-14 HOUSE MUSIC INSTRUMENTS
ST-15 PSYGROSS INSTRUMENTS
ST-17 BACKING INSTRUMENTS (4 disks)
ST-21 HOUSE MUSIC INSTRUMENTS 2
ST-25 SOUND FX INSTRUMENTS (2 disks)
ST-26 KWANGS INSTRUMENTS (3 disks)
ST-29 CLAYS INSTRUMENTS VOL 1-10
ST-30 VOCAL INSTRUMENTS Vol 1-4
ST-40 PIANO INSTRUMENTS
ST-45 WINDSTRING INSTRUMENTS
ST-47 PERCUSSION INSTRUMENTS (2)
ST-51 RADISH HOUSE SAMPLES (4 disks)
ST-55 TERMINATOR SAMPLES (4 disks)
ST-56 RUNNING MAN SAMPLES (2 disks)
ST-57 PREDATOR SAMPLES (2 disks)
ST-64 TECHOTRONIC SAMPLES
ST-65 FX INSTRUMENTS Vol 1-4
ST-69 STAR TREK SAMPLES
ST-70 RAVEN SAMPLES
ST-71 ELF SAMPLES
ST-72 BOMB THE BASS SAMPLES
ST-73 C&C MUSIC SAMPLES
ST-74 RADISH SAMPLES 2 (disk)
ST-75 ELECTRONIC SAMPLES
ST-76 RAVE SAMPLES VOLUME 2
ST-79 SILLY SAMPLES
ST-82 HORROR SAMPLES (2 disks)
ST-85 HYPNO INSTRUMENTS
ST-87 X1 SOFTWARE RAVE SAMPLES 2
S101 MEGA-MODULES (1-4) 6 disks full of auto play music/songs. Brilliant
S175 KOOSE SAMPLES (3 disks)
S280 SPECIAL FX VOL 1 (1-13 disks)
S310 SPECIAL FX VOL 2 (1-13 disks)

CLIP ART

Very high quality clipart suitable for any PAINT or Desktop Publishing package
C01 Accents
C02 Aircraft
C04 Alphabet1
C06 Animals1 (5)
C07 Babies & Children
C09 Bars (2 disks)
C10 Borders
C11 Building
C12 Business
C13 Cats & Dogs
C14 Comics
C17 Halloween
C18 Logos
C19 Maps
C23 Space
C24 Sports
C25 Teddies
C26 Transport & Travel
C27 Weddings
C29 Women & Men (2)
C30 Xmas
C31 Disney clip art
C32 Comic clip art

Various subjects of clip art of the highest quality. Results in super print out. RECOMMENDED for any DTP or Paint package

CP01 CLIP-ART VOL 1 (5 disks)
CP02 CLIP-ART VOL 2 (5 disks)
CP03 CLIP-ART VOL 3 (5 disks)
CP04 CLIP-ART VOL 4 (5 disks)
CP05 CLIP-ART VOL 5 (5 disks)

MAGIC WB EXTRA

Hundreds of brilliant Magic WB Icon/Backdrop 8 or 16 colour. Must for all Magic Wb users. Only £1.99 per volume of 2 disks

MAGIC WB.01 EXTRA VOLUME 1 (2 DISKS)
MAGIC WB.02 EXTRA VOLUME 2 (2 DISKS)
MAGIC WB.03 EXTRA VOLUME 3 (2 DISKS)
MAGIC WB.04 EXTRA VOLUME 4 (2 DISKS)
MAGIC WB.05 EXTRA VOLUME 5 (2 DISKS)
MAGIC WB.06 EXTRA VOLUME 6 (2 DISKS)

Quality backdrop or seamless Workbench pattern for using with Magic WB. Can be without Magic WB on (WB2 use Nickpref) (WB3 WB pattern)

MAGIC WB.28 BACKDROP & PATTERN V1 (4)
MAGIC WB.29 BACKDROP & PATTERN V2 (2)
MAGIC WB.30 SEXY BACKDROP
MAGIC WB.31 160+ NEW POINTER
MAGIC WB.33 MANGA ICON & BACKDROP & OTHER (2)

U995 A500 (13) MagicWB Emulator (almost)
This will give your A500 an 8 colour Workbench. Also comes with a wide range of backdrops (picture behind the Workbench) & 8 Colour Icons

PLEASE ORDER A DISK CATALOGUE ADD 70P OR 3 X FIRST CLASS STAMPS WITH ORDER

INTRODUCTION

What have the following got in common? A demon, a fortress, a quest to repel all evil from a once peaceful land, a young slip of a lad with a hidden heritage and a ridiculously large rucksack. That's right, the main ingredients to most RPGs across the world. While the hope to actually play something where some kind of imagination has been used in the plot line would be appreciated, The Tower of Souls is ultimately no different.

Presented in a 3D isometric scrolling view akin to Ultima 8 on the PC, this rehash of old ideas tells the story of an evil demon called (insert silly name) who has taken over the land (insert silly name). The ancient prophet (insert silly name) foretells the day when a young lad will make an assault against the evil one and return the country to a peaceful existence.

Funnily enough, this does indeed happen and you, the humble player, take the enviable role of playing the result of this prophecy in the shape of (insert silly name), the hero of the piece.

The alchemy kit is an excellent idea and works rather well

The inventory is a well laid out affair with your substantial backpack offering all manner of places to put your valued finds

Tower of

The quilled intro is a nice idea but goes on for far too long

Move the hero round the fortress using the virtual joystick i.e. the character moves in the direction of your pointer

In a word – simple. For the few hours I played, the main objective is to wander round the fortress turning off fountains which apparently flood the bottom levels if left on, and picking up massive amounts of herbs, spices and money. The puzzles I've experienced so far are of the 'flick the switch to open the door' variety. This area is enlarged upon, unfortunately, by the inclusion of a lock pick section and the disconnect the three bolt lock segment.

The former involves moving four different types of picklock tools over the keyhole (shown in close-up in the main panel) and moving the mouse frantically around until one of them hopefully slips into place, opening the door. The latter is shown in the main panel depicting three bars forming a lock. On the right are a number of switches that can be moved.

Click on these in a random fashion and eventually the three bars will slide all the way open, unlocking the door or turning off a particular fountain. These two ideas must have sounded great on paper but in practice are just a touch on the gimmicky and unnecessary side.

Fighting the various foe guarding the fortress is none too exciting either, whether you be using a sword or a potent spell from your substantial inventory of magic. Their habit of rising from the ground again and again from the same place even after being killed several times adds a certain monotony to the already repetitive proceedings.

There's also an auto map facility available to aid you in your wanderings round the fortress, which you'll only need once in a while.

One of the game's most original features is the alchemy kit where you can mix all nature of magic. Presented as some kind of primeval James Bond-like gadget, the unit is contained inside a metal case where basic ingredients are mixed and heated to create a spell in one of the four categories available – attack, defence, morphing and equipment spells.

Click on the make option and the magic making kit starts to cook your ingredients, then the end result plops into a test tube which is corked and ready to use. The idea is novel and works rather well.

There are a substantial amount of spells to play with, ranging from various lethal projectiles such as acid, fireballs and lightning to the more oddball magi such as creating an illusion to fool your enemies, morphing into a rat to outwit the enemy or maybe slipping into previously unreachable places. It has to be said that out of the whole game, the magic side is by far the strongest.

80%

The control panel – from left to right, the compass, the inventory, what you're holding and how healthy you are, and finally the all-important spell book

GRAPHICS

There's real professional quality to the graphics on first viewing – the fancy but overlong intro depicts a quilled pen writing out the game story on a parchment, with illustrations of the key events fading up into view at the top. The inventory screen looks equally as impressive, with a rather meaty looking rucksack and the most bizarre and inventive looking magic tool kit I've ever seen.

While lacking the excellent standard of graphics seen in Heimdall 2 or, to a lesser extent, Dragon Stone, the main in-game visuals are well-defined on the whole, and the scrolling, while a touch slow, works at a decent enough rate as to not prove distracting. The scenery, as far as I've seen it, is relatively dull – lots of fortress walls in various tones and colours become rather repetitive after a while.

Another annoying aspect is the sometimes indistinguishable objects that can be picked up – there's no text saying what something is and you've no idea what they are.

As with the plot, the main problem with the graphics is that I've seen this genre style again and again in other games – it would be refreshing to see visuals that smack of something more pictorially inventive like some of the scenes in Heimdall 2. The dank dungeon walls, the spikes in the floor, the hooded figures throwing fireballs – all look the part but what a dull part to play.

68%

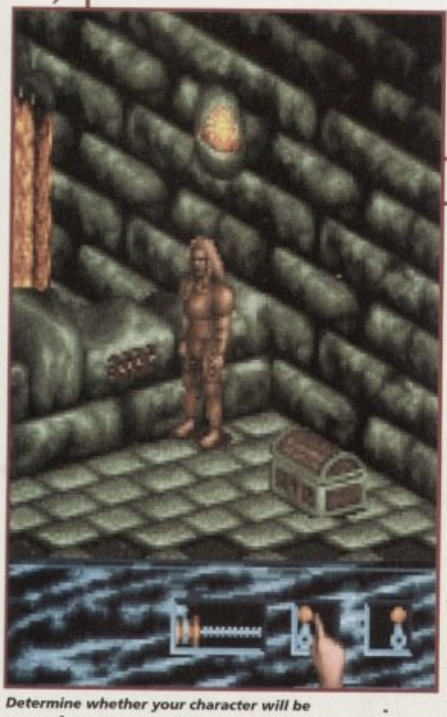
Souls

Hackneyed RPGs are becoming as commonplace as long-in-the-tooth platformers. Adam Phillips reviews a game that's determined not to change the trend

FLASHBACK

If you want to indulge yourself in a rich story with involving gameplay then look no further than Core Design's Heimdall 2. Featuring cartoon-like graphics packed with character, a variety of differing puzzle types and numerous places to visit such as huts, astral planes and castles on different islands, this a rather successful attempt at the RPG genre.

- Publisher: Black Legend
- Developer: Parys Technografx
- Disks: 2
- Price: £29.99
- Genre: RPG
- Hard disk install: Yes
- Control: Mouse
- Support: Amiga 1200 with 2Mb of RAM
- Recommended: 68020 upwards



Determine whether your character will be more of a mage or a warrior using the slider at the bottom of the 'rack' of statistics

These fountains need to be turned off to stop the lower levels from flooding later on in the game

SOUND

The main bulk of the music is string-based, supposedly epic, but unfortunately the synth sound used is a just a touch on the naff side. Imagine the music used to accompany a Conan film, with everybody's hero, Arnie, riding off to face his quest – big, butch, brave and tacky.

The in-game sounds are spot effect-based, with musical accompaniment, but the tune is a little basic although effective.

Again, though, there is a problem – while we hear the rasping of flames, the footfalls of our hero, the sliding of locks as they open, and more, the makers have unfortunately pitched the footsteps at a much lower volume level than all the other sound effects.

So putting the volume up to clearly hear the hero's footfalls as they clank down on the stone floor results in a sudden explosion of loud sound when anything else happens. Annoying.

55%

OPINION

57%

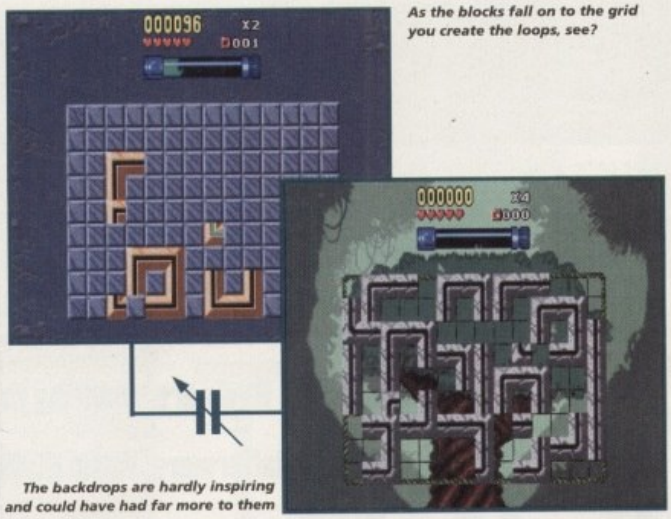
I can't help but feel it's a cop out to say that this kind of game will suit the tastes of the professional role-players among you. Perhaps there are people out there who will glean some excitement from this package and be held in its grip for hours, but for the rest of us with some semblance of a life, this is an average, uninspiring game with the only temporary relief being the magic making.

To have succeeded, Tower of Souls needed more thinking man's puzzles and perhaps some kind of interaction. Indeed, perhaps all this is included later on but after spending a few hours on it, I gave up out of boredom and frustration.

There's obviously some clever programming talent here but the game designer needs to rethink what makes an RPG interesting, gripping, atmospheric and, above all, imaginative: After all, that's what fantasy is all about – escapism. Until this happens, any further releases or sequels along a similar line will end up on the Most-Not-Wanted list. And you need two meg to play Tower of Souls.

INTRODUCTION

Either you love puzzlers or you don't. I'm afraid I was in the latter category until I played X-It a couple of months ago. It was too late to salvage my Rubik's Cube by then though, so I waited with baited breath for another puzzler to come along that would take my fancy. And it has – sort of! It's Audiogenic's latest offering which takes the form of building loops. It's one of those games I shouldn't like for all the reasons I'll go into in a minute, but for some weird reason it's rather playable.



As the blocks fall on to the grid you create the loops, see?

The backdrops are hardly inspiring and could have had far more to them

Super Loopz

Being rather loopy herself, Tina Hackett takes a look at Audiogenic's latest puzzler that will drive even those with saintly patience completely round the twist

Publisher: Audiogenic
Developer: In-House
Disks: 1
Price: £15.99
Genre: Puzzler
Hard Disk Install: Yes
Control: Joystick/Pad/Mouse
Supports: A1200/CD32
Recommended: B8020/CD32

GRAPHICS

Visually, the game is certainly nothing to get excited about. But it is a puzzler after all – I mean look at Tetris, nobody would describe that as graphically stunning, I'm sure.

The screens in Super Loopz contain a grid, falling blocks that make the loops, and a variety of backgrounds. Unfortunately, the backgrounds aren't all that stunning, and something a bit more imaginative would have made a hell of a difference.

They vary (?) from bonus backgrounds covered in fruit to a tree housing animated monkeys that pop out whenever you complete a loop. Hmm, inspired.

30%

SOUND

The tunes are the usual lively in-game music you'd expect to find. When you're playing the puzzles you'll get a range of sound effects when you make a loop, from a crowd cheering to a strange monkey sound. However, the accompanying tunes are rather grating and be warned – supply ear plugs to anyone within a mile radius of your computer. My advice: Turn the volume down and hum.

35%

On one of the bonuses the blocks don't actually disappear which makes life very tricky

PLAYABILITY

Basically, the idea behind Super Loopz is to join the different blocks that fall onto the grid to create continuous loops. There is a time limit to put down each piece, and if you can't place it you lose a life.

The game can be played by using a one or two-button joystick, a CD32 controller or a mouse. The joystick seems to be the easiest, and when the piece drops onto the playfield you can rotate the shape by pressing fire and right, then when it is in the position you want, press fire and left. However, once it is in position it is permanent. The bigger the loop you can make, the more points you'll get.

Super Loopz has a variety of different sections to play. The arcade game can be played by one or two players, and you must make ten loops to progress on to the next level. Three bonus games can be accessed by completing different missions.

You can also play a challenge game which means you can pit your wits against an opponent. You each get a separate grid and the winner is the one who scores the most points.

There is a puzzle option too which involves being shown a complete loop with some of the pieces then dropping off one by one. You have to watch carefully because you have to remember where they go and replace them.

OPINION

56%

Okay, it's certainly not the best puzzler in the world and granted, there are many features missing that would have made this a good title. *But* for some strange reason I found myself sneaking back to the computer for just one more go. I don't know why, because it certainly didn't have a big incentive to strive for, the graphics are pretty bland, and the sound is nothing special.

I think it could have had a lot more to it, especially with an objective or fancy graphics, but the puzzle element does seem to work quite well and is quite addictive as far as it goes.

It does worry me though that the game is A1200 and CD32 only. "Why?" is my only thought on that matter. Rumour has it an A500 version will be released which is the original Loopz, only the graphics aren't as good – I'll refrain from comment on that, I think!

If you like puzzlers then this could be worth checking out. Trust me, it is quite fun, for a while anyway, and it is only £15.

AMIGA COMPUTING BRONZE AWARD

OPTONICA

INFO NEXUS NEW!

£29.95

InfoNexus is a sophisticated file management system with integrated multimedia and network support. An ideal replacement for both workbench and CLI users InfoNexus features a full on line help system. As well as having the ability to move, copy, delete, rename files, InfoNexus allows you to view/hear/launch just about any file. InfoNexus is simply the best File/Data manager on the market today!

ALL AMIGAS 1 MEG RAM MIN

DATA NEXUS NEW!

£29.95

DataNexus is a very powerful and configurable, yet easy to use, flat file database. Its integral multimedia support for images, samples, text, music, animations, amiga guides, CDXL motion video, program & script launches make it ideal for just about any data storage and retrieval project. Full visual print layout and mail merge make DataNexus a must for your data.

ALL AMIGAS 1 MEG RAM MIN

SIMPATICA 2 + VTL

£350.00

Simpatica allows Amiga and 24 bit image sequences to be rendered to video tape frame by frame producing the same results as products costing over ten times as much, ie, smooth video playback at 25 frames per second. Simpatica has been on sale, and improving, for over four years so you are guaranteed a reliable product. Supplied with both hardware and the bonus program Video TimeLapse, there is no better choice for video professionals.

ALL AMIGAS 2 MEG RAM MIN

80% AMIGA USER INT MAGAZINE

INTERPLAY

£749.95

Interplay is a unique product for the Amiga, it allows you to produce CD32 applications to the very highest commercial standard and was written specifically for the CD32 so no other Amiga authoring system comes close. Interplay was used to produce the three highly acclaimed titles below.

ALL AMIGAS 4 MEG RAM + HARD DISK MIN : 8 - 16 MEG REC

90% AMIGA USER INT MAGAZINE

93% CDTV USER GROUP NEWS

PANDORA'S CD

£4.99

Pandora's CD shows you just what can be achieved with multimedia on CD. An all original promotional title containing something for everyone, from educational productions to point of information, picture, texture, clipart and sound libraries, a jukebox, children's games and a sampler of Insight:Technology. Simply a must for anyone with a Commodore CD system!

CD32 - CDTV - A570

87% AMIGA FORMAT MAGAZINE

88% AMIGA USER INTERNATIONAL MAGAZINE

INSIGHT:TECHNOLOGY

£39.95

INSIGHT:Technology, lavishly produced by Optonica and published by Commodore, gives a fascinating look at modern technology with pictures, animations, photos, video, narration, text, music and sound effects, over 260 topics in all from the ball point pen to the space shuttle.

CD32 - CDTV - A570

87% AMIGA FORMAT

91% CU AMIGA

INSIGHT:DINOSAURS

£39.95

INSIGHT:Dinosaurs is the second in the INSIGHT series, a lavishly produced, highly acclaimed tile, rich in multimedia. Produced in association with the Natural History Museum, London, one of the world's leading Dinosaur centres of excellence, you can be assured that Dinosaurs is both technically correct and produced to the most exacting standards. Also features: DinoPaint, DinoQuiz and DinoPuzzle.
INSIGHT:Dinosaurs has had the best reviews of any CD32/CDTV reference title so far (lowest mark 88%!), see for yourself why.

CD32 - CDTV - A570

92% FORMAT GOLD AWARD
91% CU AMIGA (TOP RATED)
96% CDTV USER GROUP NEWS
90% COMPUTER SHOPPER

SEND CHEQUE/PO TO OPTONICA LTD, 1 THE TERRACE, HIGH STREET, LUTTERWORTH, LEICS, LE17 4BA, UK. OR TELEPHONE 0455-558282 FOR MORE DETAILS. ALL PRICES INC VAT & P&P. PLEASE ADD £2 FOR P&P ON OVERSEAS ORDERS. DEALER ENQUIRIES WELCOME.

You'll meet some very strange characters during the course of the game

Hallucinogenic worms in tequila. Hmm, a very weird pastime

Animations will enhance the game, like this imaginative drowning scene

The inventory screens are tucked neatly away at the bottom

Rescue the sacred book from the malevolent horsemen

system analysis

Limbo

Tina Hackett, your devil in disguise, casts her soul into Limbo forever to take a look at what certainly promises to be one helluva game from new developers Tri-Logik Studios

The recent ECTS was a platform for quite a few new Amiga releases. One such title could be found on the Rasputin stand and at first glance it looked to be your rather average arcade adventure fare.

Called Limbo of the Lost, it's a first project for Kent-based developers, Tri-Logik Studios. When I first saw the game, I must admit I wasn't particularly gobsmacked. But having now seen the previewable version demonstrated fully, I am rather optimistic for the future of this up-and-coming team.

It's an adventure game that has a passing resemblance to Another World in its graphical style and approach. And what does look particularly appealing about the title is its historical storyline. Based on the factual events of the Mary Celeste, it uses this historical background and the mystery surrounding it to create a highly atmospheric game.

As no-one knows what happened to the crew of the ship, they've created one particular fantasy-based ending that makes an excellent storyline for the game.

An unusual and original touch will be the addition of a video which will accompany the game and provide the following plot: The Mary Celeste is en-route to Italy when a strange mist engulfs the ship, sending the navigation into turmoil. Eventually, the ship runs aground on an island that doesn't appear on any sea chart.

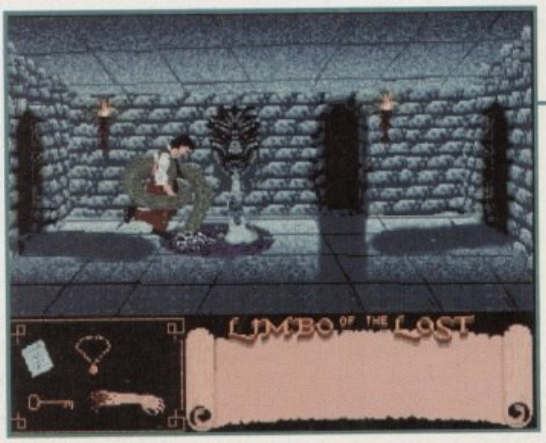
Briggs, the Captain, sends a party ashore, but when they don't return he sends another group to look for them. Again, they don't return. A storm brews up and he gives orders to abandon ship. He then sets off himself to see what's happened to his crew, and stumbles across one of the shipmates lying in the undergrowth, barely alive but able to recount the previous days events. He tells of how they came across an ancient temple, and finding a beautiful book written in a strange language they agree to take it back to the ship.

But as they lift the book, from a dark opening in the temple four figures emerge mounted on horseback, and they attack with a force that seems to melt the flesh off their bones. They tussle for the book one of them is holding and the crew flee in terror, managing to only grasp on to one page from the book.

After telling the tale he dies and Briggs continues his search. He comes across the temple and cautiously goes inside. Hidden from their view, he hears the horsemen tell his shipmate, Johnson, that the book is God's book of creation and having been moved from the sacred altar by a mortal, they are now able to use it to reverse the creation of earth.

They then kill Johnson and ride away. Briggs ventures further and sees a ghostly apparition of Johnson who tells him the horsemen do not know the page is missing and without it they cannot perform their evil deed. He begs Briggs to find the book and free their souls from Limbo, where they are condemned to spend eternity as slaves. Biggs steps into the portal and the game begins.

You play the unseen guardian to Captain Briggs, directing all the action via a point



Watch out for hidden traps that will lure you to your doom

The Mary Celeste

The Mary Celeste is well renowned for being a very unlucky ship – some may even say jinxed! Built in 1860, disaster struck only a year later. Originally christened 'Amazon', she set sail, and only a short time afterwards her skipper fell ill and died. John Nutting Parker assumed command but the ship then ran into a fishing weir causing damage to the hull, had to go to the shipyards for repair and while she was there a fire broke out.

The bad luck didn't end there, though. On her first Atlantic crossing she collided with a brig and sunk it. After the repairs she returned to America where she ran aground off Cow Bay, Nova Scotia.

It's not all that clear as to what happened after she was yet again repaired, although it seems she was passed between a variety of owners, none of which did well out of her – some even went bankrupt. Eventually, a consortium of New York ship owners took ownership of her and as an improved and larger vessel, she was renamed Mary Celeste. The next voyage was the greatest mystery of all. In 1872, under Captain Benjamin Spooner Briggs, she set sail with a full crew including the Captain's wife and one of their children.

Nothing was seen of them after this and the ship was later discovered by the crew of the Dei Gratia who found the Mary Celeste abandoned. The vessel was still seaworthy though, and missing was the chronometer, sextant, bill of lading and navigation book. Abandoning ship is a desperate measure and as one of the Dei Gratia's crew remarked: "The Mary Celeste was in a fit enough state to sail around the world. So why was she abandoned?"

The game is littered with rather gory tongue-in-cheek touches that will add humour

of the Lost

'n' click mouse system. The inventory and all the information you will need will be kept at the bottom of the screen so as not to interfere with the main play area, and the mouse icon can be changed according to the action you want to carry out.

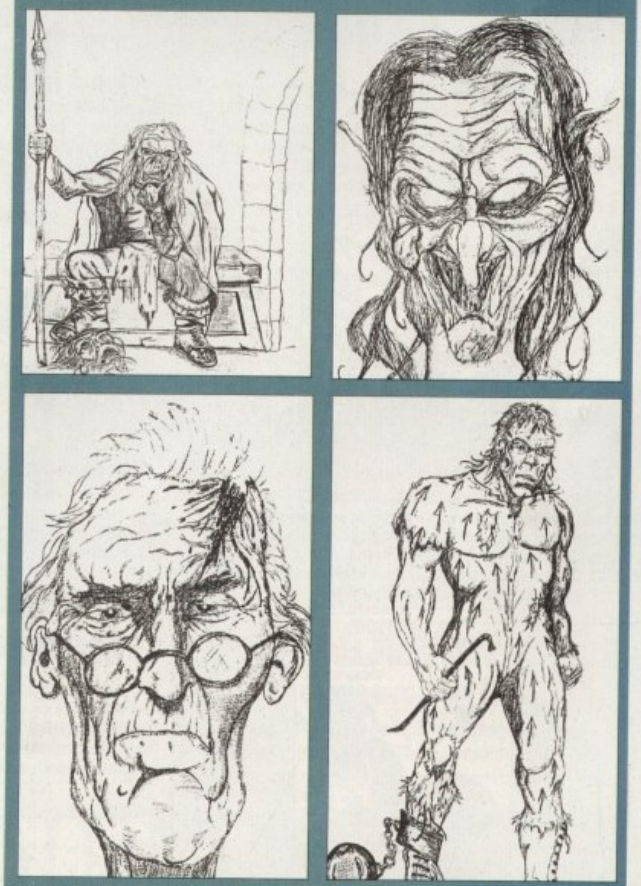
There are many weird and wonderful characters you'll come across in Limbo of the Lost. Some may be good, others bad, and you'll have to find out about those that will help you on your quest and those that will just hinder – or even kill you. The main character, Briggs, will also talk to you, explaining an object you may want to know about. He may not agree with you though, and could nag you if you take too long over a decision.

A range of animations will be added to the game. There are quite a few nasty ways to die and these are accompanied with some rather grisly scenes such as a drowning! Characters will also be animated and fully-interactive environments will ensure some thorough gameplay.

Sound effects are rather promising at this stage too. Speech will be used throughout and all the characters will have different voices such as deep sinister speech for the four horsemen or a slow, demented drawl for one of the monsters. So far, all of these have been well implemented and a good range of realistic sound effects will provide atmosphere.

The final version won't be ready until October but we'll be bringing you updates on what looks like being an original and atmospheric adventure.

A rather worried Captain Briggs. You play his unseen aide



Steven Bovis, responsible for the graphics, has created some very imaginative characters for the game, including Cranny the Cook and Grunger the Gate Keeper

AMIGA COMPUTING Back Issues

If you've missed any of these issues, now's your chance to put things right, by either buying an individual issue or a full six months' worth. But hurry - stocks are limited!

SEPTEMBER

An exclusive preview of the new stand-alone Lightwave PAL, plus all its essential add-ons. A first look at PageStream 3.0. Retina III, MainActor and a DIY guide to building a home studio.
ON 2 DISKS: Scroller 2, a complete commercial video titling system worth £60.

OCTOBER

We look at the freelance graphics market to see how you can make a bob or two with your creativity. Plus: Forge, Pyromania, Picasso and Pablo.
ON 2 DISKS: 3D textures for 2D an 3D graphics applications. Plus HamLabPlus.

NOVEMBER

We reveal all you need to know about Amiga maintenance. Plus reviews of Warp Engine, Image F/X 2 and 3D CD's.
ON 3 DISKS: Demos of Batch Factory, Edge, Top Gear 2 and a host of shareware titles to dip into.

DECEMBER

AC test drives the Raptor accelerator and talks to the people who use it to create their commercial graphics. Plus reviews of World Construction Set, Wavemaker, TurboCalc v2 and Bertie Bunny!
ON 2 DISKS: The complete version of TechnoSound Turbo and a fully playable demo of Sensible World of Soccer.

CHRISTMAS

Want a list of the top 20 best Amiga buys? Look no further than our countdown of the cream of products for your machine. Plus a monitor roundup, Final Writer 3, VLab Motion and more reviewed.
ON 2 DISKS: The complete, exclusive Easy Amos – all yours free with *AC*.

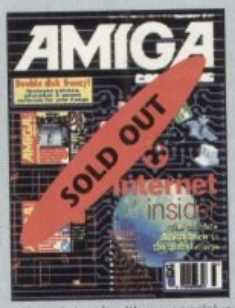
JANUARY

The Video toaster finally arrives on the shores of Britain with the help of the Passport 4000. Also take a look at Imagine 3.1, Wordworth 3.1 and see hidden 3D pictures with StereoCAD.
ON 2 DISKS: The full version of Can Do 2 and a demo of the acclaimed football tactics game, Premier Manager 3 from Gremlin.

FEBRUARY

We go behind the scenes of Aardman Animations, those talented folk responsible for The Wrong Trousers and a rather large quantity of TV commercials – most of which have been given a helping hand by the Amiga. Plus reviews of Termite, Photogenics and Gamesmith.
ON 2 DISKS: The complete and unrestricted version of AnimWorkshop and a chunk of shareware products to boot up and use.

MARCH



Take a walk through the Internet with our concisive guide. Plus reviews of the excellent MultiLayer, InfoNexus and Datastore.
ON 2 DISKS: DirWork, 10 out of 10 Maths Statistics demo and 10 out of 10 Driving Test demo as well!

APRIL

We go behind the scenes of Cyberjack, a film whose special effects are being created entirely with Amigas. Plus reviews of Hollywood FX, Final Data, Studio Pro II and Dice C Compiler.
ON 2 DISKS: Get online with our Demon Internet software. Use the complete version of Database and Spreadsheet software from the Mini Office package.

MAY

We take the first look at Lightwave 4 and its improvements. Plus reviews of Cross Mac, DPaint 5, Aminet 1, Cobra 275MHz and CanDo 3.
ON THE COVER: A free CD crammed with 547Mb of files to use with your Amiga. Plus the complete version of Smarty Paints, the art package.

Send me my back issues!

Each issue costs just £3.99 (plus 50p p&p). Send this form and a cheque or postal order payable to IDG Media, to: Amiga Computing Back Issues, Media House, Adlington Park, Macclesfield SK10 4NP. Offer subject to availability. Please ask about availability of any issues not shown.

Issue:.....

.....

.....

.....

.....

.....

Name:.....

Address:.....

.....

.....

Postcode:..... Telephone:.....

Remember to fill in all of this form! If there are any problems, please telephone 01625 878888.

1993 ISSUES

April, May, June, August, December issues only £2.99
(Plus 50p P&P).

Opinions please

Here at System we take what you, the readers, think seriously, and we are always looking for ways to improve our games section. So, if you want to air your views and stand a chance of winning some excellent prizes then put pen to paper.

Games Coverage

Would you like to see more or less of the following?

	More	Less		More	Less
Sports			Strategy		
Arcade			Puzzlers		
Platformers			RPGs		
Adventures			Simulators		

Cover Disks

Please tick the response most appropriate to you:

- ☐ Games should be left off Cover Disks completely
- ☐ Only use the more serious strategy/sports games
- ☐ Only use games that are high profile releases
- ☐ More games in general, including Public Domain

Layout

Please tick:	Yes	No
I am happy with System's current page design		
I like reviews sectioned, but want more emphasis on opinion		
I would prefer the majority of information in a main body of text		
I would like more text		

Most important in a review

(Place 1-4 in order of importance – 4 being most important)

- ☐ In-game pictures
- ☐ Gameplay details
- ☐ Reviewer's opinion
- ☐ Technical information

CD32 games

Please tick:	Yes	No
Do you want Squirrel/Zappo compatibility information?		
Would you like more coverage of CD games?		

Budget games coverage

Please tick:	Yes	No
Do you want more coverage of re-releases?		
Would you like more new independent cheapies covered?		

Previews

Please tick:	Yes	No
Are you interested in articles on games in their early stages		
Would you prefer previews of games nearer to completion?		

General

Please tick:	Yes	No
Do you want a game problem answering page?		
Are full game cheat guides useful to you?		
Would you prefer small tips for different games each issue?		
Is a reader's soap box/letters page of interest to you?		
Do you find information on developers interesting?		
Where relevant, would you like more technical information?		
Would you like to see more competitions?		

Age

To get an idea of what level we should be aiming at, it would help us if you could tick your appropriate age group:

- ☐ 0-14
- ☐ 15-20
- ☐ 21-30
- ☐ 31 plus

What information does System miss out that you would like to see included?

Please feel free to add any further comments

Your machine

Model: _____

- ☐ Upgrades: (e.g., Accelerators, Fast RAM, etc.)
- ☐ Do you own a CD32 or CD-ROM Drive?

Name: _____

Address: _____

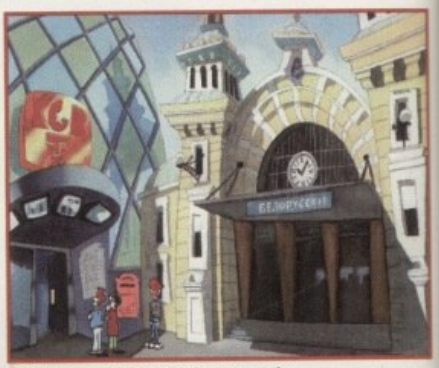
Please send all completed surveys to: *Tina Hackett, System Survey, Amiga Computing, Media House, Adlington Park, Macclesfield, Cheshire SK10 4NP.*

Win!

To show our appreciation for your efforts we'll enter your name into a draw. There are 10 subscriptions up for grabs and 20 games from our intriguing games cupboard!

The introduction anim tells the story of the Russian cultural revolution since the Cold War ended. In other words, the appearance of scantily clad women, cadillac cars and beef burgers

The control panel – click and hold on the right-hand mouse button to bring up the iconified list of actions and inventory



Visit Moscow Station (right next to the KGB television Studios where daytime quizzes are now shot) and catch the Orient Express

system preview

Big Red

In the aftermath of collapsed communism, Russia has become virgin territory for Western goods. Core Design go one step further and base a game round the new democracy. Adam Phillips previews

Let's get one thing clear from this point onwards – stereotypes in computer games are a fad that are never going to go out of fashion. Japanese with their cameras, the Irish with their potatoes, and now the Russians with their technologically-backward attitudes and a naiveté of Western culture.

The backdrop for the rather handsome looking Big Red Adventure is Moscow after the initial wave of capitalism has swept over it. The Kremlin palace has been turned into a museum housing Russia's greatest treasures. Among the pickings is the coveted crown of Tsar Ivan the Horrible covered in a variety of jewels, pearls and other assorted goodies that are worth a fortune.

For some reason, to begin with, you take on the role of a foreign tourist turned criminal who wants to steal the crown. Doug Nuts, techno-nerd extraordinaire who has a penchant for criminality, is the first character to be put in your control in the room of a hotel suite. The game itself is split into four different sections – for three of these you play three differing characters including our Doug.

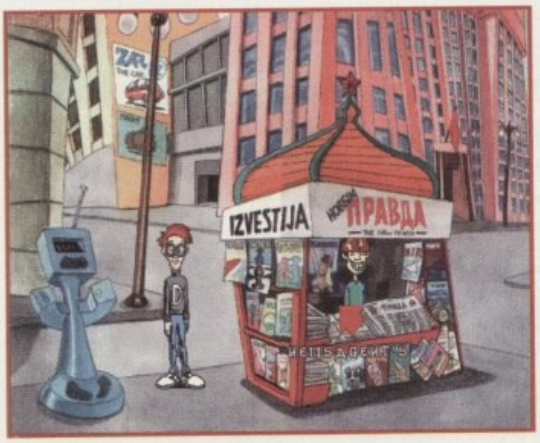
Further on in the game you take on the role of Dino Fagoli, an ex-boxer of Italian origin (let's get those stereotypes really cooking) who's described as an honest and decent kind of guy who unfortunately

The Big Red Adventure is made up of 100 different locations to explore your way through. From the sunny shades of Gorky Park to the icy wastelands of Zerograd

(surprise, surprise) is as thick as black strap molasses (thick, black treacle to you, sunshine).

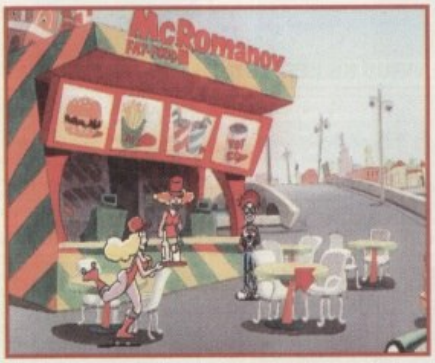
The third and final personality is Donna Fatale whose past is somewhat sordid – apparently. Forever trying to cover up the indiscretions of a mis-spent youth, she often finds herself on the receiving end of

The hotel room where you begin. Move the red pointer over an object you want to use, open or examine

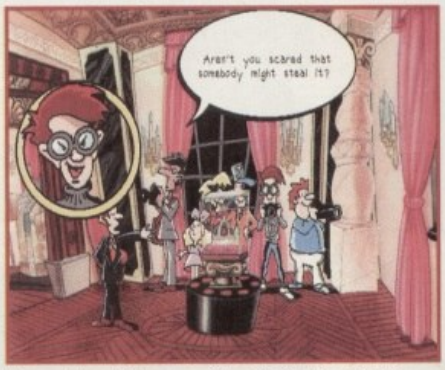


Newsagents have hit the streets of Moscow big time! For all sad people reading, that copy of PlayBoris dangling enticingly from its hook can be bought – that's democracy for you

Gorky Park – a location wrapped in mystery and cloak 'n' dagger normally, but now home to kid with a Leninintendo handheld console. Oh, culture!



McRomanov – the Russian Macdonalds. Choose from a wide selection of fast food snacks but watch out for the roller-skating waitress



The much-heralded crown of Ivan the Terrible which is kept in the Kremlin and has now been turned into a tourist attraction. All speech is shown in cartoon-style speech bubbles and close-ups of the characters

Adventure

At some point in the game, you're going to need that Lenintendo handheld the kids got. Why not swap that super-doopah PC in your inventory with him?

ruthless blackmail threats. The fourth and last section of the game is where all the loose ends are brought together to an exciting denouement. I can hardly wait.

It transpires during the animated introduction to the game that certain factions of old Russia are none too happy in the way Western culture has affected the once great motherland. Lenin-loving crusties want to get things back the way they were before the invasion of Big Macs, computer games and rock music, and they intend to go to any measure to achieve this.

LOOK-ALIKE

Heading this cast of evil-looking Stazi stormtroopers is a Lenin-like figure who looks like a university lecturer after an AA meeting. Obviously, at some point, you're going to have to put a stop to their dastardly plans through the use of cunning, good looks and luck.

Using the conventional point 'n' click method of moving the character around, objects can be picked up and used, characters talked to, and doors opened. Like most games of this ilk, puzzles come in the form of using the objects in the right place and talking to Moscow's denizens in a quest for more information.

One of the first problems the player stumbles across is how to get on the daily quiz show held at KGB Studios. First of all, watch the programme on the television which will tell you to buy the Moscow TV Times to get hold of a ticket. The paper can be bought from the newsagents outside the hotel.

Inside is a ticket with three questions on that'll each need answering before you can send it off to be entered into the draw of lucky audience winners. How you get the answers leads to separate puzzles and quests, one of which involves getting a queuing Russian to buy caviar for you in return for a roll of toilet paper.

CONUNDRUMS

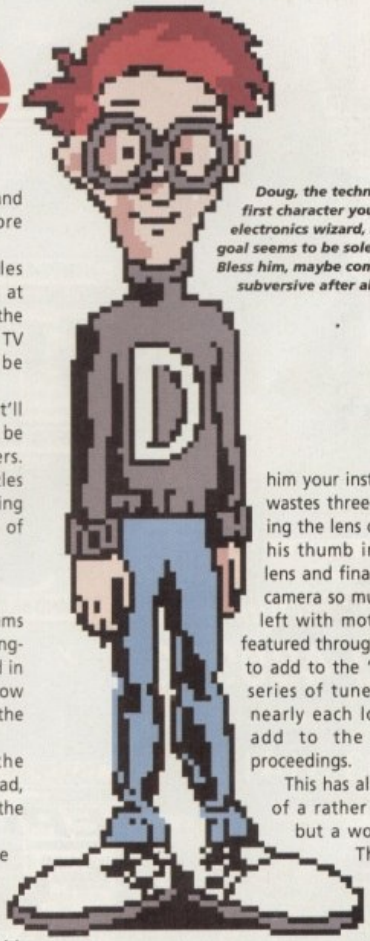
From what I've played, the various conundrums thrown up by the game are intelligent and challenging, but not so overtly difficult as to stop you dead in your tracks for several weeks. But who knows how hard they get on the later sections? Find out in the full System review in the next couple of months.

Along your travels you're whipped along the streets of Moscow, across the icy steppes of Zerograd, taken on a ride on the Orient Express and enter the deep red heart of communism.

One of the game's most enticing aspects is the rather sumptuous graphics that have a real professional sheen to them. The backgrounds have been painted and put on the screen in 256 colours, with the colourful, if clichéd, characters presented in bold, vivid colours. There's no doubt that a considerable amount of time has been taken on aspects of the visual presentation, and the graphics match those seen in most Sierra titles such as the later King's Quest games.

With over 100 locations to trawl through, varying from Moscow station and KGB TV studios to McRomanovs (Macdonalds anyone?) and Gorky Park, the player can interact with 50 characters along their travels. Most of these characters are clichéd but well drawn and fill their parts effectively.

Take the Japanese photographer who doesn't know how to use his top-of-the-range camera – give him your instamatic and he wastes three shots by leaving the lens cap on, getting his thumb in front of the lens and finally shaking the camera so much that you're left with motion blur. Also featured throughout the game to add to the 'ambience' is a series of tunes tailored for nearly each location which add to the atmospheric proceedings.



Doug, the techno-nerd, is the first character you play. An electronics wizard, Doug's main goal seems to be solely criminal. Bless him, maybe computers are subversive after all

This has all the hallmarks of a rather special game, but a word of caution. The PC version, released a few months ago, suffered from an awkward control system where it was difficult to move your character to an exact position, and the map didn't make much sense – lapping back on itself when you were going in a completely different direction, and the main character sometimes simply ignoring where you wanted to go.

If Core Design has cleared up these hiccups, Amiga users everywhere could be in for a refreshing treat in an original gaming environment (apart from those comic book characters). We'll be able to look over our shoulders at Sierra and LucasArts and realise that the Amiga community doesn't need them anymore anyway. Hopefully.

EPIC SOFTWARE

Access VISA MasterCard

Order Hotline:
01793 490988

Fax Order Line:
01793 514187

ORDERING BY POST
Simply send us your order, listing the items you require, the total cost and yor name and address with payment either by cheque or postal order made payable to EPIC MARKETING. Most orders are despatched with 48hours.

ORDERING OVER THE PHONE
Call any time between 9:30am - 3:30pm Mon-Sat with your credit card details and a list of the items you would like to order.

COLLECTING YOUR ORDER
You are welcome to collect you order any time between 10am and 5:30pm Monday - Saturday.

OVERSEAS ORDERS
Overseas orders are welcome, but there is a minimum order of 3 titles and please add £1 P&P per floppy title and £2.00 per CD-ROM title for Postage & Packing.

POSTAGE & PACKING
UK & Mainland add a total of just 50p for floppy software.
Plus £1 per CD-ROM title ordered.

INFORMATION
Goods are not sold on a trial basis. E&OE.
PLEASE STATE YOU ARE OVER 18 WHEN ORDERING ANY ADULT TITLES.
Full Terms and Conditions available on request.
We do not condone the use of pornographic software.
Actual screenshots may vary between different computer versions.

A two disk collection of the best virus killers available for the Amiga. An essential purchase for any Amiga user. Very easy to use. Only £4.00

☐ VIP4-2. VIRUS KILLER SET

A set of 10 of the best puzzle games for the Amiga. Frustration at an extreme. Superb value. Only £7.00

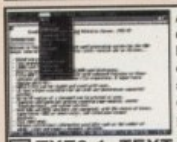
☐ MTG7-3. MIND TEASERS

If you want to learn to type like a pro. then our superb Typing tutor set will help you on your way. Only £3.00

☐ TYP3-1. TYPING TUTOR

Workbench 3 is very good but commodore forgot to include a few things, like a virus killer, a decent file manager, a menu system, a few WB games & more. £7

☐ SCF7-3. STUFF COMMODORE FORGOT



A complete wordprocessing package. Features all standard options like: cut, paste, spell checker etc. An overall easy to use package. Only £3.00

☐ TXE3-1. TEXT ENGINE WP

If you want to linkup your Amiga to a PC or another Amiga then this is the software for you. You can easily transfer files from one machine to another. Only £8.00

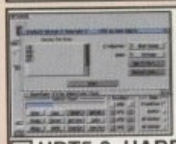
☐ COM8-3. NETWORKING SET

StarTrek Action/Strategy game. You take control of all key personnel on the bridge. great sound fx and graphics make this a superb game. £6.00

☐ STG6-3. STARTREK GAMES

Create your own fascinating 3D stereogram pictures on your Amiga. Complete with demo pictures, viewer and Magic Eye maker. Only £5.00

☐ RDS5-2. MAGIC`EYE KIT



An essential purchase for any hard drive owners, Includes backup tools, virus tools, disk repairer, and loads of other utilities. Only £5.00

☐ HDT5-2. HARD DISK TOOLS

Now the wheather is nice, it`s time to do the garden, and the best way to get out of doing it is to spend loads of time designing it. Only £3.00

☐ GRN3-1. 3D GARDEN DESIGNER

Get your finances in order with this excellent package. Keep track of your fuel, petrol, & food bills. Find out where all your money geos each month. Only £7.00

☐ FIN7-3. FINANCE PACK

Over 100 games on 5 great disks. All the classics are here, aswell as loads of new original games. Hours of fun for just £10.00

☐ GG10-4. 100 GREAT GAMES

Make your own hardware and save £££. Sound samplers, memory expansions, Bridgeboards etc. Knowledge of LHA req. Only £4.00

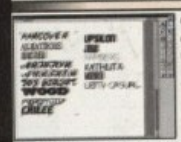
☐ HWP4-2. HARDWARE PROJECTS 2

A two disk set of new workbencgh backdrops and icons for use with Magic Workbench, on any Kickstart 2 or 3. MagicWB available. £3 MagicWB extra`s.... £5

☐ MWE5-2. MAGIC WB EXTRA`S

A two disk collection of Workbench 3 backdrops. Very easy to use. Works with Hard disk of Floppy disk. Grown up`s only.... Only £5.00

☐ WGB5-2. WORKBENCH3 BACKDROPS



Over 40 top quality compugraphic fonts for use on Workbench, PageStream, DPaint4, Wordworth2&3 etc. A great value set of fonts. All for only £7

☐ PSF7-3. COMPUGRAPHIC FONTS

The most powerful word search, crossword solver available on the amiga. Includes a dictionary of over 58,000 words and you can add your own. Only £5.00

☐ WFP5-2. WORD FINDER Pro

The complete small office suite, Includes Wordprocessor, Database, Speadsheet, and Diary. Compatible on all Amiga`s. Only £7.00

☐ IFC7-3. LITTLE OFFICE

A huge set of classic board games, Includes: Monopoly, Scrabble, Cluedo, Mastermind, Othello, Backgammon, and more. Great fun for all the family. Only £10

☐ BDG10-4. CLASSIC BOARD GAMES

If your new to the Amiga then you may be having problems with missing libraries etc on your workbench that are needed for certain titles to run. This disk contains all popular libraries, veiwers and other popular tools. Only £2.00

☐ EFB2-1. ESSENTIAL FOR BEGINNERS

Fifty of the best Bitmap fonts available. This pack also includes a powerful font editor. Compatible with Workbench, D Paint, etc. £7.00

☐ FNT7-3. FIFTY FANTASTIC FONTS

Xcopy TNG is the most powerful Amiga disk copier available, Includes software and an external disk interface for better results. Only £29.99

☐ SXCP30-1. XCOPY TNG

A selection of tools for degrading your A1200 or A4000 to allow you to run most of the older Amiga games, tools, and demo`s. Only £4.00

☐ DEG4-2. A1200 DEGRADERS

A ten disk collection of very high quality cmono clipart, suitable for all Amiga DTP & Paint packages. All popular subjects included. All ten disks only £13

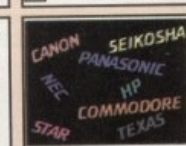
☐ GFX13-10. PRO. CLIPART

Simple to use, but compitent colour Desk top publishing software for any Amiga. Program Only £4.00

☐ NRL4-1. NEWS MAKER

Includes print manager, lable printer, address keeper, printer drivers, loads of other printer tools. Knowledge of LHA required for use. Only £7.00

☐ PRT7-4. PRINTER TOOLS 2



This is the most upto date and comprehensive collection of printer drivers available for the Amiga. Star, Citizen, Panasonic, HP etc, etc Easy to Install. £3.00

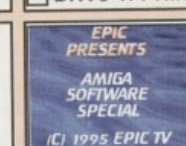
☐ DRV3-1. PRINTER DRIVERS

Over 500 game cheatson 2 disks for Amiga games. Most of the latest games cheats included. All for only £5.00

☐ CHT5-2. CHEATS GALORE 2

If your a budding Ian Beale or Floyd, then this Gourmet cookbook will get you going. Only £3.00

☐ GCB3-1. COMPUTERISED COOKBOOK



Six disks of Video fonts, Backdrops, Titlers, Video wipes, and loads more. Graet for producing your own video`s. All for only £12.00

☐ VID12-6. VIDEO TITLING TOOLS

Thousands of General Knowlege questions and answers on this two disk Quiz Pack. Great fun for all the Family. Only £5.00

☐ QUZ5-2. QUIZ CHALLENGE

Over 130 clipart images on 3 disks of all the Lion King characters. for use in any Amiga package. Only £6.00

☐ LKA6-3. LIONKING CLIPART

If you've just purchased your Amiga your you may be a bit boggled how to use it properly. Well this five disk set takes you step by step through every basic thing to know. All five disks for just £9.00

☐ ABG9-5. BEGINNERS GUIDE

EPIC MARKETING, FIRST FLOOR OFFICES, 138 -139 VICTORIA ROAD, SWINDON, WILTS, SN1 3BU. UK

A collection of Amiga card games including: Poker, Craps, Solitaire, Pontoon, Blackjack,Montana, Rummy and more.
Only £10.00

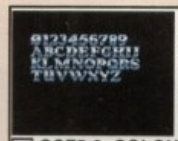
☐ CRD10-4. CLASSIC CARD GAMES

Lottery Winner Professional attempts to predict the results of the Lottery. Every week you input the previous weeks numbers into a database. Only £5.00

☐ LWP5-1. LOTTERY WINNER

Magic User Interface will compliment Magic Workbench to enhance your Workbench even more. *Knowledge of Shell is required.*
Only £4.00

☐ MUI4-2. MAGIC USER INTERFACE



A set of over 50 superb professional looking colour clip fonts. Perfect for Video titling, Demo making or Desk top publishing.
Great value at £5.00

☐ CCF5-2. COLOUR CLIP FONTS 3

New collection of tools for WB2 & 3. Includes HD tools, Virus killer, sound & graphics tools, text editor and loads more.
A bargain at £5.00

☐ ATC5-2. POWER TOOLS

Another great puzzle game, this ones for the Adults. great fun.
Only £5.00

☐ CFS5-1. CENTREFOLD SQ.

Retrieves lost or damaged files. Undelete deleted files. Repair, Salvage or Validate almost any Amiga dos disk. Including Hard drives. Only £5.00

☐ DRT5-2. RECOVERY TOOLS

This pack includes C64, GAMEBOY, BBC, VIC20, IBM, SPECTRUM SINCLAIR QL & ATARI ST emulators
Only £5.00

☐ AEP5-3. EVERY EMULATOR

A range of clipart for use with Page Setter, Dozens of subjects including : People, Animals, Vehicals, Sports etc.
Only £3.00

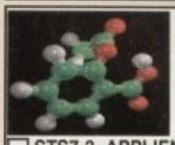
☐ MPC3-1. PAGESETTER ART

Amiga Betting Shop. If you like a little flutter now and then, then your love this set of 4 great gambling games. Fruit machine, roulette etc. Only £6.00

☐ ABS6-4. BETTING SHOP

Girls and more girls, loads of 256 colour girly pictures, for use on the A1200 only.
All 3 disks only £6

☐ GRL6-3. GIRLS,GIRLS,GIRLS.



Includes:GRAVITY SIM
ELEMENTS TABLE
UNITS CONVERTER
GEO TIME
CLOUD CREATOR
EVOLUTION MODEL
3 disks for only £7.00

☐ STS7-3. APPLIENCE OF SCIENCE

NEW VERSION.... Test your drive, memory, Keyboard, GFX chips, sound ships, speed etc.
Only £3.00

☐ ENK3-1. ENGINEERS KIT

Play Poker with some of the most lovely women in the world. Includes superb graphics and digitised speech. Over 18 only
Only £10.00

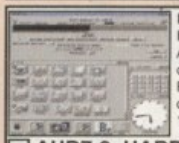
☐ DSP10-1.DELUXE STRIP POKER

With this language tutor you could learn to speak in any of the following languages. SPANISH,FRENCH GERMAN,ITALIAN & JAPANESE. only £8.00

☐ LTP8-4. LANGUAGE TUTOR

Organise your Record, CD, Video and disk collection with this superb set of cataloging tools.
Only £5.00

☐ CTG5-3. CATALOGUER`S



If you`ve just got a new Hard drive for your A1200 then this set of disks are essential. Prep and Partition your drive then install WB 3 100% properly. £7.00

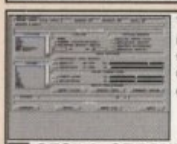
☐ AHD7-2. HARD DISK SETUP

A new five disk set of high quality colour clipart, All the major subjects included. OKAY on any Amiga package.
Only £9.00

☐ CCP9-5. COLOUR CLIPART

Imagine objects of MACLAREN, WILLIAMS and BENETTON Formula One motor racing cars. (4mb recommended)
Only £6.00

☐ RTR6-3. RAYTRACED RACERS



The complete graphics manipulation and converter set. supports GIF, IFF, BMP, PCX etc, etc.
Only £5.00

☐ GFC5-2. GRAPHICS CONVERTER

Eight all time classic arcade games, Pacman, Frogger, Asteriods, Space Invaders, Centipede, Missile command, Q-Bert, & Omega race.
Great value for money. Only £5.00

☐ ARC5-2. ARCADE CLASSICS2

Whether your a complete beginner at chess or a champion. JI Chess has something for you. Superb graphics and speech.
Only £5.00

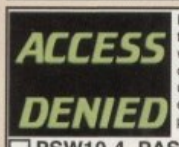
☐ JIT5-2. CHESS & TUTOR

Includes Lightwave scenes & objects of the Delta fighter, Soul Hunter, two Vorlon space craft, B5 Station, two Jumpgates & nebular space dust. £7.00

☐ BF07-4. BABYLON 5

SPE5-3. SPECCY EMULATOR & 50 GAMES £5
SPG15-7. 100 CLASSIC SPECCY GAMES £15
SPG35-33. 400+ SPECCY GAMES + EM. £35
CDSPS3. SPECCY SENSATION CDROM £20

☐ SPECTRUM STUFF



Password & file encryption tools. Put a password on your computer or make any file unreadable to anyone else. Not for the complete beginner. £10.00

☐ PSW10-4. PASSWORD SET

Over 50 superb quality Eye catcher clipart images for use in any Amiga package.
Only £4.00

☐ EYC4-2. EYE CATCHER CLIPART

AMIGA CDROM TITLES

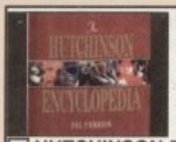
*TITLE MAY NOT BE AVAILABLE AT TIME OF GOING TO PRESS

Over 600mb of Imagine & lightwave objects, textures, Animations, Picture files, Postscript fonts, Colour fonts, etc.
Only **£19.99**

☐ GFX SENSATION Vol.1

Includes over 500 all time classic spectrum games on one CD for CD32, CDTV, Zappo etc. Includes actual Speccy emulator aswell. Only **£14.99**

☐ SPECCY SENSATION CD



Over 2000 photographs, 250 sound clips, 500 illustrations, 25,000 entries, 1.5 million words, sound recordings & maps from the BBC & ITN . Only £14.99

☐ HUTCHINSON ENCYCLOPEDIA

Every arcade classic you could think of. Invaders, Pacman, Asteriods, Frogger, Q-bert, Missile command, Tempest, Centerpede and loads more. **£9.99**

☐ *ARCADE CLASSICS CD

Over 4000 full colour Adult images for use on your Amiga or PC. OVER 18 Only **£19.99**

☐ ADULT SENSATION CD

NEW!! contains almost every one of our advertised Amiga floppy titles. Games, tools, demos, clipart etc. If it's on this double page add it's almost certainly on this CD ROM. Only **£59.95**

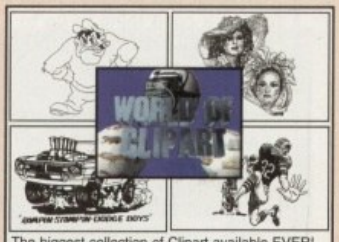
☐ THE EPIC COLLECTION '95

All the best and most useful tools for your Amiga. Includes Hundreds of essential utilities
Just **£9.99**

☐ *ESSENTIAL UTILITIES Vol.1

NEW!!! The Startrek Multimedia CD. contains: Animations, Sound samples and hundreds of pictures
Only **£27.99**

☐ STARTREK MULTIMEDIA CD



The biggest collection of Clipart available EVER! Colour + B&W IFF, EPS, Pagestream, GIF, PCX, BMP, TIF, Pagesetter, WMF. Over 60 catagories. DOUBLE CDROM. A bargain at just **£17.99**

☐ WORLD OF CLIPART CD

EPIC MARKETING, FIRST FLOOR OFFICES, 138 -139 VICTORIA ROAD, SWINDON, WILTS, SN1 3BU.

UFO –

Andy Maddock becomes intrepid adventurer as he goes in search of those infamous little green men and the answers to a million UFO questions

INTRODUCTION

UFO actually stands for Unidentified Flying Object, as most people already know. They tend to associate them with triangular space things that whizz through the sky at millions of miles per hour. The theory is Aliens. That's the explanation!

Many years have gone by while scientists have studied all the evidence, yet there's still no concrete proof that these little green men do or don't exist.

If they do, they obviously don't seem to be planning to attack us or wipe us out in the future. They just seem content researching us. Some people claimed to have been examined or monitored by a weird method! Is it true? Who knows? What would happen if they did find a reason to attack us. What would we do? The thought is terrifying. Well, sort of.

Recently, over the South Manchester area, there have been many sightings of these unknown objects whizzing over the Pennines. Are there other life forms living in new galaxies using technology far more advanced than anything we've ever dreamt of?

Aliens, supposedly, have access to small, shiny vehicles that can travel in depths of any galaxy they please and never get pulled up for speeding. And what do we have... the Amiga 500?

From the Xcom base you can build various facilities to aid you in your quest

STORYLINE

The idea is to take control of XCom which is a secret organisation planning to wipe out invading UFOs – who, incidentally, have decided to attack. The only way of defeating them is to shoot the UFOs down to the ground and search the wreckage for technology to use against them. This is where the strategy aspect comes in.

Deciding on what weapons to research and the type of armoury for your soldiers is, unfortunately, your first worry. You then have to land on their territory and defeat them. Only by constant research will your army grow large enough and strong enough to enable you to even think of attacking the aliens.

Once you defeat them you will learn more about them and their way of thinking. After a while you may be able to predict their moves and form different strategies.

A number of important decisions have to be made to prevent the UFOs attacking your base. Once you have made ground and established yourself as a leading base, you can extend your community and set up plant elsewhere within the world. To do this you must send out your jets to patrol the vicinity to check for unwanted guests – disposing of them immediately.

Sending out various Interceptor jets to shoot them down is a good thing to do to make an area clear. You can then think about sending out a passenger ship carrying all your soldiers and ammo. This is very dangerous as you have no real knowledge of the UFO's crew or cargo. It's your job to organise your troops safely and control them through the exploration stages, and this is where the action begins.

Plan your battle strategy carefully and collect UFO technology to research

SOUND

Atmospheric tunes are usually the norm for strategy games, and UFO is no exception. It has its fair share of eerie tunes blending in well, suiting the action and graphics, but the effects are fairly limited to the odd bleep, resembling gun fire. There isn't much to write home about in particular because the style of the game is progressive rather than action all the way.

The action scenes could have been spiced up with some speech or sampled aircraft noises, which would have added to the realism. However, as it stands, the music and sound effects are really both adequate because you don't really take much notice of them. Actually, you may as well make your own sounds. Eeeeaaaawww! Chaaa! Chaaa... erm, maybe not.

59%

GRAPHICS

The graphics are probably the best part of the game. They are chunky yet very detailed. However, the only let-down are the actual combat sequences on the ground, which are very bland and could easily have been improved. The world map is very well drawn and the actual stills of faces, equipment and transporters are very good. Overall, the graphics are clear and adequate.

Obviously, the main factor for a strategy game is to be detailed and playable rather than very presentable. The graphics and sound are much of a bonus if you're going to be constantly engrossed in your tactics and strategies – the presentation will not play too big a part in your initial reaction.

The animation of the game is slightly different, and becomes very jerky during the ground battle scenes. The limited amount of frames of animation look unfinished and very unprofessional, which make the battle scenes, in particular, very sluggish and even clumsy. The control system then becomes awkward and results in a game which hosts a whole load of detail being disappointingly let down by slightly minor, although very poor finishing touches.

74%

Protecting your base is the easy part. Intercepting the UFOs and shooting them down requires skill

Take a look at all the technology you have collected in recent missions

Select your battle plan for intercepting the UFO. Plan a cautious attack before leaping in with missiles

Enemy Unknown

ADDITIONAL INFO

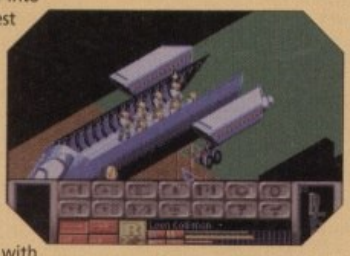
UFO is now available to all 500 owners. After being released on the 1200 and CD32, the 500 version follows suit. Compared to the superior versions, it's basically another run-of-the-mill 500 version – vastly slower, and generally a 500 feel to it. If you've never played the other versions then you haven't really got anything to compare it to.

Collated to other similar strategy games with a twist of adventure, it doesn't really touch them. The two that stand out from the rest are Space Crusade and more recently, K240, which are both incredibly in-depth and contain livelier action sequences.

OPINION 67%

The menus are well implemented and easy to use, although the lack of on-screen information takes a toll at important parts of the game – constantly looking at the manual to get started becomes very boring, very quickly.

Now for the 500 version itself. I'm afraid it's not as fast as I'd hoped. They've tried to keep the disk swapping down to a bear minimum and they've succeeded, but it's the accessing of the disks that now becomes the big wait. More or less every icon clicked on needs a few seconds of access, and if you click on the wrong icon you'll have to wait to get back into the game. Through this, I lost interest very quickly.



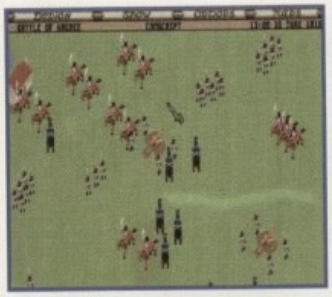
I must admit, the amount of detail is fantastic and it's certainly one of the most in-depth games I've played yet. It contains all sorts of information on guns, ships, ammunition and troops, and is a real statistic buff's heaven. Unfortunately, this isn't me.

If you enjoy strategy/battle games with a hint of adventure then you might as well invest in a hard disk. Most games of this genre appear in the box accompanied by about five to ten disks, and the last thing you want to do is swap them around every few minutes. It's certainly a worthy purchase for existing 500 owners who want to inject a little oomph and snazz into their grey-haired machine, but be careful non-hard disk owners!

- **Publisher:** MicroProse
- **Developer:** Mythos Games
- **Disks:** 5
- **Price:** £34.99
- **Genre:** Strategy
- **Hard Disk Install:** Yes
- **Control System:** Mouse
- **Supports:** A500/A600
- **Recommended:** 68000

Check out your remaining supplies and finances in the monthly report

Recruit soldiers to make your team of troops the strongest possible



Two highly-skilled brigades locked in battle

You get to select which side you will represent. Where do your loyalties lie?

Fields of Glory

Fields Of Glory, or FOG as it is more commonly known, is a battlefield/strategy leadership game which to be honest does not spark much interest for the majority of Amiga games players. However, there is still the minority which must be catered for.

The idea is to control the Anglo-Allied, French or Prussian forces and make tough decisions to lead your troops to victory. You are thrusted into 1815 when Napoleon escaped from Elba, made his return to Paris and became Emperor of France. The Duke Of Wellington's Allied-Army joined forces with Blucher's Prussians to battle Napoleon, and this became the Battle Of Waterloo.

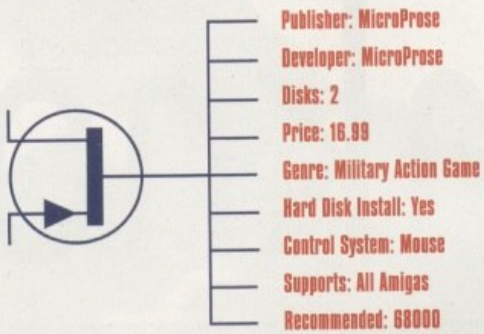
Throughout the game I managed to stop myself from bursting out a verse from a popular ABBA song, and sadly that was my only real moment of excitement.

Basically, the idea is to position your troops or join them together and then set your Light Brigades ready for battle among other battle-type things. Once ready, you can set your attack and watch your decisions physically take place as you sit well out of the way, and while you wait you will be informed of certain deaths of commanders and other important personnel. To add some extra spice, not only must you defeat your opponent, you must complete the task against the clock.

The Fields Of Glory database is a dream if you want to find about all different kinds of brigade details. You are given ratings of all-important commanders, troops and artillery which can be especially helpful in deciding where your opponent is most vulnerable.

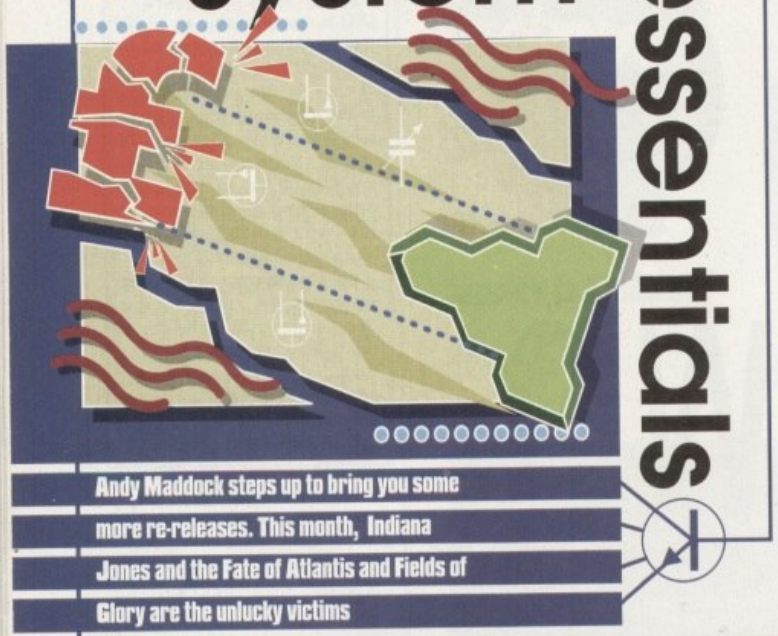
The presentation factor is very good, with well implemented menus featuring colourful pictures of battle sequences. The action itself is set out on a map, and you can search around, view the other sides and look at their armoury. The graphics are fairly difficult to make out, but with the aid of a zoom function all is revealed. Another flaw is that you don't really have an idea of where to position your troops or what to do with them.

However, if you have a particular interest in Napoleonic warfare and consider yourself a great leader then you could be more than adequate at coping with this.



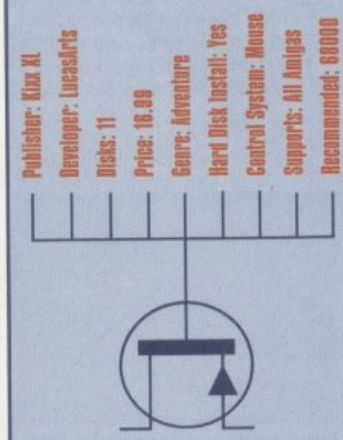
50%

system essentials



Andy Maddock steps up to bring you some more re-releases. This month, Indiana Jones and the Fate of Atlantis and Fields of Glory are the unlucky victims

Indiana Jones And the Fate Of Atlantis



Indiana Jones has had a fairly lengthy life-span over the years with arcade releases, and now, obviously, with the move up to adventure games. In this release, Indy dons his dusty slacks and takes steps beyond in the Fate of Atlantis, and as an archaeologist he must discover and explore the powers of Atlantis. However, hot on his tail are Nazi agents, eager to put a stop to Indy's meddling and lay their hands on the powers themselves.

Indy's career began with an arcade scrolling platform romp which was basically a points fest. Then came The Last Crusade which had fairly good graphics and a reasonable plot, but sadly became a huge chore with so much disk-swapping.

I really don't think I want to see that! Oh! You mean the orichalcum!

It was a brave move to turn to the more exciting adventure genre. However, the disk-swapping glitch became more of a problem than first thought. This is the case with many adventure games at the moment, and is what immediately put me off – the massive amount of disks were sure to inflict blisters the size of tennis balls. However, after a good solid hour of playing there were none, as the story unfolds consistently and limits disk-swapping right down to the minimum. If you're a proud owner of a hard drive then there's no fuss whatsoever.

The good thing that stands out in adventures is the fact you can decide what to do, when to do it, and how to do it. There are no hard and fast rules you must obey to reach the end – you can play it at your own pace. The graphics have been carried over from the last adventure of Indiana Jones, and the digitised effects work with the atmospheric tunes, creating a completely different world.

If you've got time on your hands and are a fan of Indy then you'll enjoy the adventure as it all slowly unfolds. However, have a look around at other adventure games which may appeal more.

72%

Zone 1

FREE CATALOGUE
Over **2,000** titles

Zone 1
'the software people'

Dept AC695
Zone 1 Ltd.
PO Box 69,
Stone,
Staffordshire
ST15 8GH

The price you see, is the price you pay, V.A.T., P&P are **ALL** included.

Great prices, same day despatch, free gifts, regular prize draws.

Amiga

A0111 A-TRAIN & CONSTRUCTION SET	11.99
A0071 AIR BUCKS V1.2	11.99
A0232 ALIEN BREED SPECIAL EDITION	7.99
A0490 ALL TERRAIN RACER	16.99
A0125 ANOTHER WORLD	9.99
A0186 ARCADE POOL	6.99
A0137 ARCHER MCLEANS POOL	11.99
A0187 AWARD WINNERS 2	19.99
A0021 B-17 FLYING FORTRESS	11.99
A0159 BATTLE OF BRITAIN	12.49
A0894 BEAU JOLLY COMPILATION	22.99
A0107 BENEATH A STEEL SKY	22.99
A0387 BIRDS OF PREY	11.99
A0251 BLACK CRYPT	9.99
A0642 BODY BLOWS	9.99
A0181 BODY BLOWS GALACTIC	17.99
A0223 BRIAN THE LION	16.99
A0091 BUBBA N STIX	9.49
A0120 BUMP 'N' BURN	19.99
A0314 CADAVER & PAY OFF	11.99
A0319 CANNON FODDER 2	19.99
A0317 CHAMPIONSHIP MANAGER ITALIA 95	15.99
A0183 CHAMPION MANAGER COMPENDIUM	17.99
A0705 CLASSIC COLLECTION (DELPHINE)	19.99
A0745 CLASSIC COLLECTION (LUCAS)	19.99
A0189 COMBAT CLASSICS 2	19.99
A0012 COMBAT CLASSICS 3	22.99
A0227 CORPORATION	9.99
A0510 CRYSTAL DRAGON	19.99
A0085 CURSE OF ENCHANTIA	11.99
A0936 DAWN PATROL	25.99
A0241 DEATH MASK	16.99
A0077 DESERT STRIKE	9.99
A0126 DISPOSABLE HERO	17.99
A0515 DOG FIGHT	12.49
A0230 DRAGONSTONE	22.99
A0167 DUNE	11.49
A0168 ELFMANIA	17.99
A0641 EMBRYO	17.99
A0151 EYE OF THE BEHOLDER (1)	10.99
A0236 EYE OF THE BEHOLDER (2)	10.99
A0155 F19 STEALTH FIGHTER	11.99
A0617 F29 RETALIATOR	9.99
A0051 FIFA INTERNATIONAL SOCCER	22.99
A0150 FIRST ENCOUNTERS	19.99
A0002 FLASHBACK	19.99
A0169 FOOTBALL GLORY	17.99
A0188 GRANDSLAM CLASSICS	13.99
A0413 GUNSHIP	9.99
A0084 HEIMDALL	7.99
A0085 HEIMDALL 2	22.99
A0512 HELP!	17.99
A0152 IMPOSSIBLE MISSION 2025	19.99
A0589 IND. JONES FATE OF ATLANTIS (ACT)	6.99
A0141 IND. JONES FATE OF ATLANTIS (ADV)	21.99
A0211 IND. JONES & THE LAST CRUSADE	11.99
A0028 ISHAR 3	21.99
A0416 JAGUAR XJ220	6.99
A0586 JUNGLE STRIKE	16.99
A0679 MIDWINTER	9.99
A0489 MIG29 SUPER FULCRUM	9.99
A0009 MORTAL KOMBAT 2	19.99
A0030 ON THE BALL LEAGUE EDITION	19.99
A0040 ON THE BALL WORLD CUP ED.	19.99
A0501 PREMIER MANAGER 3	17.99
A0050 PGA EUROPEAN TOUR	17.99
A0257 PINBALL DREAMS/FANTASIES	22.99
A0552 PIZZA TYCOON	19.99
A0249 PROJECT X	9.99
A0289 RAILROAD TYCOON	11.49
A0136 ROAD RASH	9.99
A0019 REACH FOR THE SKIES	11.49
A0566 SECRET OF MONKEY ISLAND 2	12.49
A0349 SENSIBLE WORLD OF SOCCER	19.99
A0010 SHADOW FIGHTER	16.99
A0209 SIMON THE SORCERER	22.99
A0674 THEME PARK	22.99
A0647 TOWER ASSAULT	12.99
A0194 TRIPLE ACTION PACK VOL 6	9.99
A0108 VALHALLA & LORDS OF INFIN	19.99
A0951 VOYAGES OF DISCOVERY	19.99
A0041 WEMBLEY RUGBY LEAGUE	16.99
A0245 XENON 2	7.99
A0979 ZEEWOLF	19.99

Educational

A0509 ADI ENGLISH (14-15 YEARS)	16.99
A0510 ADI FRENCH (11-12 YEARS)	16.99
A0511 ADI FRENCH (12-13 YEARS)	16.99
A0513 ADI FRENCH (13-14 YEARS)	16.99
A0516 ADI FRENCH (14-15 YEARS)	16.99
A0525 ADI GCSE ENGLISH	22.99
A0524 ADI GCSE FRENCH	22.99
A0925 ADI GCSE MATHS	22.99
A0526 ADI JUNIOR COUNTING (4-5 YRS)	15.99
A0527 ADI JUNIOR READING (4-5 YRS)	15.99
A0225 FUN SCHOOL 2 (<6 YEARS)	6.49
A0226 FUN SCHOOL 2 (>6 YEARS)	6.49
A0352 FUN SCHOOL 3 (<5 YEARS)	13.99
A0331 FUN SCHOOL 3 (5-7 YEARS)	16.99
A0333 FUN SCHOOL 3 (>7 YEARS)	15.99
A0329 FUN SCHOOL 4 (<5 YEARS)	16.99
A0330 FUN SCHOOL 4 (5-7 YEARS)	16.99
A0328 FUN SCHOOL 4 (7-11 YEARS)	16.99
A0514 KID PIX	10.49
A0355 NODDYS BIG ADVENTURE	16.99
A0356 NODDYS PLAYTIME	16.99

Amiga 1200/4000

G0236 ALADDIN	19.99
G0006 ALL NEW WORLD OF LEMMINGS	19.99
G0054 BALDIES	19.99
G0052 BANSHEE	19.99
G0053 BIG RED ADVENTURE	24.99
G0047 BLOODNET	22.99
G0701 BODY BLOWS GALACTIC	19.99
G0055 BRUTAL: PAWS OF FURY	19.99
G0045 BRUTAL: FOOTBALL DELUXE	13.99
G0058 BUBBLE & SQUEAK	19.99
G0046 BURNING RUBBER	16.99
G0006 BURNTIME	16.99
G0050 CIVILISATION	16.99
G0055 DENNIS	17.99
G0025 DETROIT	22.99
G0016 DREAMWEB	22.99
G0020 FIELDS OF GLORY	19.99
G0049 FIRST ENCOUNTERS	19.49
G0005 FOOTBALL GLORY	13.99
G0010 GUARDIAN	19.99
G0024 GUNSHIP 2000	22.99
G0026 HEIMDALL 2	22.99
G0056 HIGH SEAS TRADER	22.99
G0034 IMPOSSIBLE MISSION 2025	22.99
G0009 ISHAR 3	20.99
G0009 JAMES POND 3	19.99
G0048 JUNGLE STRIKE	17.99
G0017 KICK OFF 3	19.99
G0787 LION KING	19.99
G0027 LORDS OF THE REALM	22.99
G0019 ON THE BALL LEAGUE EDITION	20.99
G0020 ON THE BALL WORLD CUP ED	20.99
G0060 OUT TO LUNCH	16.99
G0022 PGA EUROPEAN TOUR	17.99
G0008 PINBALL ILLUSIONS	19.99
G0021 PREMIER MANAGER 3	16.99
G0109 RISE OF THE ROBOTS	27.99
G0001 ROADKILL	19.99
G0036 SECOND SAMURAI	19.99
G0110 SHADOW FIGHTER	17.99
G0002 SHAQ FU	17.99
G0014 SIM CITY 2000	22.99
G0011 SKELETON KREW	22.99
G0210 SUPER STARDUST	19.99
G0015 SUBWAR 2050	22.99
G0096 T.F.X.	25.99
G0003 THEME PARK	22.99
G0033 TOP GEAR 2	16.99
G0057 TOWER ASSAULT	19.99
G0051 TOWER OF SOULS	19.99
G0050 U.F.O.	22.99
G0057 ULTIMATE FOOTBALL MANAGER	21.99
G0021 WEMBLEY INTERNATIONAL SOCCER	16.99
G0115 ZOOL 2	17.99

CD 32

C0001 ALIEN BREED SPECIAL/QWAK	16.99
C0004 ARCADE POOL	11.99
C0002 BANSHEE	19.99
C0007 BATTLECHESS	19.99
C0025 BATTLETOADS	16.99
C0055 HEAVERS	16.99
C1941 BENEATH A STEEL SKY	19.99
C0045 BRIAN THE LION	16.99
C0034 BRUTAL FOOTBALL	7.99
C0056 BUBBA N STIX/PREMIERE	13.99
C0041 BUBBLE & SQUEAK	19.99
C0023 BUMP & BURN	19.99
C0068 CANNON FODDER	19.99
C0066 CASTLES 2	19.99
C0005 CD EXCHANGE VOL 1	15.99
C0052 CHAMBERS OF SHAOLIN	16.99
C0057 CHUCK ROCK 1&2 TWIN PACK	15.99
C0702 DEATH MASK	16.99
C0051 DISPOSABLE HERO	16.99
C0031 DONK	19.99
C0049 DRAGONSTONE	19.99
C0057 ELITE 2	19.99
C0047 EMERALD MINES	11.49
C0013 FIELDS OF GLORY	19.99
C0022 FIRE AND ICE	16.99
C0058 GLOBAL EFFECT	7.99
C0552 GUARDIAN	19.99
C0040 GUNSHIP 2000	19.99
C0012 HEIMDALL 2	22.99
C0024 HUMANS 1&2	19.99
C0027 IMPOSSIBLE MISSION 2025	19.99
C0065 INT'L SENSIBLE SOCCER	16.99
C0044 JAMES POND 3	22.99
C0050 JET STRIKE	16.99
C0050 LEGACY OF SORASIL	19.99
C0432 LITIL DIVIL	19.99
C0544 LOST VIKINGS	19.99
C0010 PGA EUROPEAN TOUR	17.99
C0059 PINBALL FANTASIES	21.99
C0450 RISE OF THE ROBOTS	29.99
C0001 ROADKILL	19.99
C0019 SENSIBLE SOCCER	16.99
C0006 SIMON THE SORCERER	22.99
C0700 SKELETON KREW	22.99
C0008 SUBWAR 2050	19.99
C0255 SUPER STARDUST	18.99
C0199 THEME PARK	23.99
C0580 TOWER ASSAULT	19.99
C0067 U.F.O.	19.99
C0186 ULTIMATE BODY BLOWS	19.99
C0802 ZOOL 2	19.99

If you don't see what you want, please call, we probably stock it.
If you can find a better price, please call, we will try to **beat** it.

If we tell you that an item you order is in stock, and you don't get it within 10 days, it's **FREE.**

Our promise to **you:**
- We will try to beat any genuine offer.
- We keep hundreds of titles in stock.
- We never surcharge credit/debit cards.
- Cards only charged **after** goods are sent.
- We are always frendly & helpful.
- We are available 9am to 9pm every day.
- We never mislead you about our stocks.
- We never quibble about returns.

Optional membership sheme:
- Bi-monthly catalogue & disk.
- Monthly saving discount vouchers.
- Bonus point scheme.
- Monthly prize draw.
- Free competitions & more...

Membership Rates

	UK	EEC	WORLD
FULL YEAR	£7.00	£11.00	£14.00
HALF YEAR	£4.00	£6.00	£8.00

Call our sales hotline **now** (9am to 9pm)

☎ 01785 813355 ☎

Prices correct at time of going to press. 4/6/95 E&OE.
Prices and offers may change without notice. Some items may not be available at time of ordering.
Zone 1 Ltd. Dresden House, The Strand, Longton, Stoke-on-Trent, Staffordshire. ST3 2PD.

Lowest Priced Top Quality Ribbons, Inkjets, Toners & Disks

Printer Ribbons

BLACK	1 off	2+	5+	10+
Amstrad DMP 2000/3000	2.80	2.65	2.45	2.25
Amstrad DMP 4000	3.66	3.51	3.31	3.11
Amstrad PCW8256/8512/LQ3500	2.85	2.70	2.50	2.30
Brother M1009/1024/1109/1209	3.90	3.75	3.55	3.35
Citizen 120D/LSP10/Swift 24/9	2.85	2.70	2.50	2.30
Commodore MPS 1220/1230	4.50	4.35	4.15	3.95
Epson LQ100	4.10	3.95	3.75	3.55
Epson LQ400/500/800/850	3.45	3.30	3.10	2.90
Epson FX/MX/RX80/FX/LX800	2.90	2.75	2.55	2.35
Epson FX/MX/RX100/FX/MX1000	3.36	3.21	3.01	2.81
Epson LX80/86/90	2.12	1.97	1.77	1.67
Mannesmann Tally 80/81	3.90	3.75	3.55	3.35
NEC Pinwriter P2200	3.03	2.88	2.68	2.48
OKI ML182/183/192/193/195	3.17	3.02	2.82	2.62

BLACK	1 off	2+	5+	10+
Panasonic KXP1123/1124/1140	3.46	3.31	3.11	2.91
Panasonic KXP1080/1180/90/1592	2.89	2.74	2.54	2.34
Panasonic KXP2123/2180	4.95	4.80	4.60	4.40
Seikosha SL90/92/95	5.70	5.55	5.35	5.15
Star LC10/20/100	2.29	2.14	1.94	1.84
Star LC200	3.00	2.85	2.65	2.45
Star LC24-10/200	2.86	2.71	2.51	2.31
Taxan Kaga KP810/815/910/915	3.14	2.99	2.79	2.59
COLOUR	1 off	2+	5+	10+
Citizen Swift 24	11.95	11.80	11.60	11.20
Panasonic KXP2123/2180	10.63	10.48	10.28	9.88
Star LC10/20/100	6.00	5.85	5.65	5.25
Star LC200	9.78	9.63	9.43	9.03
Star LC24-10/200	9.63	9.48	9.28	8.88

Ring for Ribbons Not Listed.

Ring us and WE WILL BEAT all other Ribbon prices

3½" Disks & Disk Boxes

	DS/DD	DS/HD
10 Disks	£5	£7
25 Disks	£10	£14
50 Disks	£16	£23
100 Disks	£29	£43
250 Disks	£65	£92
500 Disks	£125	£175

100 Cap. Lockable Disk Box £5.99 with orders of £10+

Preformatted (MS-DOS) disks available at 2p extra/disk.

All Disks Certified 100% Error Free and INCLUDE FREE Labels.

Miscellaneous Items

Roll 1000 3½" Disk Labels	8.99
3½" Disk Cleaning Kit	2.99
Parallel Printer Cable (1.8m)	3.99
Mouse Mat	2.99

Inkjets, Ink Refills & Toners

Canon BJ-10/20 Cartridge	17.54 each
Commodore MPS1270 Cartridge	12.13 each
HP Deskjet Cartridge (Double Cap.)	24.24 each
HP Deskjet Tri-Colour Cartridge	28.89 each
HP Thinkjet/Quietjet Cartridge	12.13 each
HP Deskjet Tri-Colour Catridge Refill	16.00 each
Inkjet Refills (Twin Packs) for Canon BJ-10/20, BJ300, HP Deskjet. Available in Black, Cyan, Magenta, Yellow, Red, Blue, Brown, Light Green, Dark Green, and Gold. 1 Pack £11.00, 2+ Packs £10.60 ea, 5+ Packs £9.95 ea	
HP Laserjet II/III Toner Cartridge	44.51 each
HP Laserjet IIP/IIIP Toner Cartridge	53.14 each

Ring For Inkjets & Toners Not Listed.

CPU & Monitor Dust Cover	6.49
Monitor Dust Cover	4.99
80 Column Printer Dust Cover	3.99
Amiga 500 Dust Cover	3.99
Amiga 600 Dust Cover	3.99
Amiga 1200 Dust Cover	3.99

All Prices INCLUDE VAT (@ 17½%) & UK Delivery

01543 250377 Ring us or send cheques to: **01543 250377**
Owl Associates Ltd, Dept 344, Owl House,
5 The Brambles, Lichfield, Staffs WS14 9SE
Official Government & Educational orders welcome
E & OE

CyberSystems

VLab motion system **£899**
Full non linear video editing system fades/wipes/effects all on board. The most competitive and the most versatile motion board available. Import your frames from Lightwave, Imagine, Real 3D and record to video live. Supports SVHS Format.

Toccata **£350**
Full 16-Bit Audio Card. Record and playback on to Video. 16-Bit sampler.

Vlaby/c **£345**
Real time SVHS Digitiser Board.

AirLink **£69**
2 GB Barracuda **£990**
1 GB Barracuda **£660**
230 MB Fujitsu Magneto Optical **£749**
Box of Five 230 MB MO Disks **£185**
Lightwave Courses **Call for details**

IN STOCK

Humanoid	£170
Hollywood Effects	£199
Power Macros	£90
Motion Master 1 & 2	£99 each
Wavemaker	£185
City Builder	£85
Snap Maps 1 & 2	£105 each
Sparks	£120
Vista Pro 3.0	£25
LightWave 3.5	£429
XCad	£34

3D Modelling Service, 24-Bit Colour Scanning, A3 Plotting Service

PHONE: 01843 292 150. FAX: 01843 292 150

WANTED: SECOND HAND AMIGAS

AMIGA Snippets COMPUTING

ONLINE PD

FREE 2 DISK CATALOGUE LISTING 9000+ PD TITLES

TEL: 01704 834335 — OR SEND S.A.E.

Assassin Game Disks 1-232

Fred Fish 1-1000

75P Per Disk

Phone for Special Pack details

For every 10 Disks ordered choose1 FREE

Online PD, Dept. AC7,
1 The Cloisters, Halsall Lane, Formby, Liverpool, L37 3PX.

SADDLETRAMPS PD

Official Distributor for Morton Strikes Back

1-4 PD Disks 95p each – 5-9 PD Disks 85p each – 10 or more PD disks 80p each

For new catalogue disk just send 2 first class stamps DSDD with labels £3.00 x 10 or £28.00 x 100

LICENCEWARE

F1		C.L.R.	
Giddy II	£3.99	Typing Tutor 2	£3.95
Erik	£3.99	Titanic	£4.95
Blackboard	£5.99	Witness	£3.95
Word Power	£3.99	Cyberdroid	£3.95
Art School	£4.99	Og! 2	£3.95
Ultimate Quiz	£3.99	Philo	£3.95

We also stock CD-Roms, Labels, Boxes etc.
Fast and friendly service, same day despatch
Free P&P on PD & Licenceware

1 Lower Mill Close, Goldthorpe, South Yorkshire S63 9BY
Tel/Fax: 01709 888127

Please make cheques/postal orders payable to: SADDLETRAMPS PD

CAPRI CD DISTRIBUTION

Commodore CDTV INTERACTIVE — ALL AVAILABLE TITLES IN STOCK — AMIGA CD32

70+ CDTV TITLES COMPATIBLE WITH CD32
100+ CD32 TITLES/50+ VIDEO CD TITLES

Shadow Fighter	£29.99	Pinball Illusions	£29.99
Super Skidmarks	£29.99	Hottest 5	£19.99
Meeting Pearls 2	£9.99	Fresh Fish 8	£24.99
Aminet Set 1	£34.99	Aminet 5	£19.99
3D Arena	£24.99	Multimedia Toolkit 2	£29.99
GFX Sensation	£19.99	CD Boot (Emulator)	£29.99
Lightworks	£39.99	Lightrom 2	£39.99
World of A1200	£14.99	World of CD32	£14.99

BACK IN STOCK/SPECIAL OFFERS

Grolier Encycl	£49.99	Insight Technology	£29.99
Rise of the Robots	£19.99	Lost Vikings	£14.99
Darkseed	£19.99	Marvin Marvellous	£14.99

This is just a small selection of the titles & special offers we have. Please write or ring for the latest list. We also stock the complete Almathera, G.T.I., Optonica, PD Soft & Weird Science ranges.

CAPRI CD DISTRIBUTION
Dept AC7, Capri House, 9 Dean Street, Marlow, Bucks. SL7 3AA
TEL/FAX: 01628 891022

TRADE ENQUIRIES WELCOME

KEW=II SOFTWARE

Est. 1989

THE BEST QUALITY PD & SHAREWARE

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!

FREELY UPDATED CATALOGUE WITH FULL DESCRIPTIONS
INDEX & VIRUS CHECKER ONLY £1!
Phone for the LATEST PROGRAMS!

PO Box 672
South Croydon
Surrey CR2 9YS
Tel: 0181-657 1617

1-3 disks £1.50
4 or more ONLY £1.25!

FREE P&P

Big Byte P.D.

Amiga PD library music specialists

ALL DISKS £1

IFF SAMPLES

1. Snares	11. Woodwind
2. Snares	12. Percussion
3. Hi-Hats	13. Percussion
4. Bassdrums	14. Guitars
5. Toms	15. Guitars
6. Toms	16. Animals
7. Drum Loops	17. Indian inst.
8. Drum Loops	18. African inst.
9. Bass Guitars	19. Oceanic inst.
10. Bass Guitars	20. Strings

Also Videotracker utilities (2 disks) (spirals, plasma, etc.)
Cheques/P.O.'s payable to BIG BYTE P.D.
50p Postage per order.
Send for free catalogue (2 x 25p stamps)

BIG BYTE, 38 Westford, Alness, Ross-Shire, Scotland, IV17 0RY
Tel. 01349-883014

PD POWER

For the latest and greatest titles

NEW IN

Jet Set Willy 3	(Platform)
Last Lap	(Car Racing)
Scorched Tanks V1.85	(Strategy)
Psycheual	(Great Shoot 'em up)
Lords and Empires	(2 disks, Brilliant Strategy)
Space Eclipse	(2 disks, 2 meg.)
Space Adventure Software House Management	(2 disks)
100 Games Pack	(7 disks)
Board Games 1	(5 disks)
Balls V0.99	(Latest Lottery number generator)
Mint	(Latest AGA demo)
GCSE Exam Papers	

and loads more available

£1 per disk – 1 FREE with every 3 75p towards post and package

Cheques/P.O.s payable to: H.A. Lloyd
Free catalogue disk with order or send S.A.E. to:-
Dept. AMC, 15 Lovetot Ave, Aston, Sheffield, S31 0BQ

Computer consumables also available
Sorry no callers

Convert your Amstrad

COLOUR MONITOR – £9.95

	MADE	DIY
464/6128/664 (no sound)	£9.90	£5.90
with stereo speakers	£39.90	£29.90
464 Plus (includes sound)	£19.90	£8.90

Hagars Electronics, Dept AMC
127 High Street, Sheerness, Kent ME12 1UD. Tel: 01795 663336
Cheque/Postal Orders accepted

THE AMIGA USER CLUB

★ FREE PD! ★
★ Membership Discounts! ★
★ FREE Bi-monthly Newsletter! ★
★ Special Offers! ★

Send SAE for details or telephone

EXAMPLE PRICES

Cannon Fodder	£13.49
Skid Marks	£14.99
Black Crypt	£9.49
Vitalight	£13.99

PLUS MANY MORE!

We also supply Amiga Software/Hardware to non members – telephone for details

The Amiga User Club
22 Heol Marlais, Llandybie, Ammanford, Dyfed SA18 3UY.
Tel: 01269 851413

GET SERIOUSLY CONNECTED FOR ONLY £19.95

Our New Club Pack allows you access to literally hundreds of thousands of new contacts. Gigabytes of Free PD and Shareware Software, and hours and hours of fun.

- **Internet Access Account:** Over 40 free hours available for you to browse the global information super-highway. Utilize FTP, Usenet, Telnet, Lynx and access global E.Mail and Conferences.
- **Compuserve Access Account:** Free access account offering you one month's free usage and a £10 usage credit for premium services on one of the world's largest BBS.
- **Membership of Chic Computer Club:** One year's membership of one of the best User Groups in the U.K., offering contacts, newsletters and discount offers and a BBS with over 4Gb of Amiga files to download FREE. Pack includes Shareware Comms Software and help and support to get you up and running. You will require a modem to use the on-line services. To get connected send £19.95 payable to Chic Computer Club to:-

CCC (A7), Box 121, Gerrards Cross, Bucks. SL9 8JP. (01753) 884473

Or send SAE for full details. We also operate interest groups for Fantasy/Music/Consoles/PC's/ St machines.

ARNOLD COMPUTER SUPPLIES

Box of 50 Blank Disks *(including labels)* **£15** *(per 50)*

Pre Formatted DSHD Disks **£22.50** *(per 50)*
100% guaranteed

Free local delivery (10 mile radius)
All your computer needs catered for.
Please phone or fax for latest prices.

13,000 disk PD Library now available
PD prices all £1.00 per disk

Barry Voce
0115 9264973
11 Campion Street, Arnold, Nottingham NG5 8GR

FUTURE ROLEPLAYER

The New Magazine For Roleplayers

Issue 2 out now

Features:
Interview with international best selling author, Raymond E. Feist

2 Free disks offer
£1000 of prizes in 2 great compos

Issue 3 Coming Soon

European GenCon Show Report
Plus: Joe Dever, Ian Livingstone, Dungeon Designer, Traveller: The New Era, Warhammer FRP, Star Trek: The Next Generation and more

To order your copy send an SAE with cheque or PO for £1.99 payable to New Frontier Publications to:
Future Roleplayer, 8 Woodsetts Rd, North Anston, Sheffield, S31 7EQ

CENTROL SOFTWARE & HARDWARE

Software & Hardware available for SEGA, SNES, all ATARIS, AMIGAS, AMIGA 32, MAC, PC, CD ROM, CDI, 3DO

Also available Printer + Monitors & all other accessories

For a Price List Phone:
01386 593357
Monday - Sunday 9am - 8pm
Answerphone on at all other times
2 Elm Grove, Ebrington, Nr Chipping Campden Glocs. GL55 6PE

Amiga Insider Guide

BSB Books for your Amiga

Bruce Smith Books

UK Comms – Internet and more
John Kennedy and Darren Irvine provide complete explanations of how to use the Internet, World Wide Web, CompuServe, CIX, Delphi and bulletin boards from your point of view. The jargon is taken apart and explained bit by bit: connecting computers by telephone; sending and receiving messages; joining in conversations, discussion groups and clubs; grabbing software, pictures, sound and multimedia files; moving around other people's computers; finding the utilities you need and much, much more. This is the complete tutorial and reference book for anyone using or contemplating the exciting new world of computer communications.
ISBN: 1-873308-40-X, 320 pages, £19.95

Mastering Amiga Programming Secrets
Paul Overaa's top routines in assembler and C for graphics and sound programming. Colour cycling, blitter chip code tricks, custom book blocks, Exec interrupts, playfields, scrolls, copper list effects, data types, MIDI. Two disks of programs and utilities included.
ISBN: 1-873308-33-7, 368 pages, £21.95 inclusive.

Amiga Workbench 3 Booster Pack
The perfect present for the experienced Amiga owner. Two tremendous *Insider Guide* books *Workbench 3 A to Z* and *Disks and Drives*, the 75 minute video *A1200 – a Deeper Look*, plus a Workbench 3 reference card and handy video timing guide.
ISBN: 1-873308-41-8, £42.95 inc VAT and P&P.

24 hour credit card hotline: 01923 894355.
Cheques/POs/cards to: BSB, Freepost 282, St Albans, Herts, AL2 3BR.

FREE PD SOFTWARE

AMIGA - PC - All Commodore

Special part year Subscription May-Dec £16.50 UK only

Call (0181) 651 5436 or
Write to 45 Brookscroft, Linton Glade, Croydon CR0 9NA

Independent Commodore Products Users Group

To place an ad on this page call Barbara Newall on 0625 878888. Free typesetting service available

AMIGA GUIDE

Leading the way in Amiga advice, the definitive guide is back to keep enthusiasts fully informed

System Medical 113
The standard start-up sequence goes under the microscope this month as Frank Nord looks at some improvements

Amiga 3D 115
Stevie Kennedy explains the uses of flame effects and transparency

ARexx 117
Paul Overaa looks at menu coding, console display control and keypress data scripts

Comms 119
Phil South reviews two new Internet books that will help you learn about the information superhighway

Publishing 121
Frank Nord highlights the design and time-saving benefits of using style tags

Amos 123
It's the turn of the readers this month as Phil South answers a few of their queries

Music 125
Paul Overaa takes a look at Dr T's M Package as it makes its debut on the Amiga

Video 127
Using a monitor instead of a TV with your Amiga can make all the difference.

Presented in association with AMIGA COMPUTING, ST FORMAT and enthusiastically supported by GASTEINER

IF IT'S 1995 THAT MUST MEAN ANOTHER BREATHTAKING

ATARI AND AMIGA SPOTLIGHT SHOW!

THE ONLY PLACE TO BE...

SPOTLIGHT '95 SHOW

★ GREAT SHOW OFFERS ★
OVER 30 EXHIBITORS INCLUDING AMIGA COMPUTING AND ST FORMAT

SEE, TRY AND BUY FROM A WIDE RANGE OF THE LATEST AND BEST PRODUCTS AND SERVICES FROM AMIGA AND ATARI MANUFACTURERS, DEALERS AND DISTRIBUTORS

"NOW IN ITS THIRD GREAT YEAR AND GROWING FAST"

PLACE: NOVOTEL HOTEL, HAMMERSMITH, LONDON.
DATE: 10th & 11th JUNE 1995
TIME: 10am to 6pm
TICKETS: £5.00 CHILDREN UNDER 5 FREE

For advanced booking phone Gasteiner on 0181-345-6000 or Fax on 0181 345 6868

Spotlight 1995
Sponsored by GASTEINER
AMC PRESENTS
HALF PRICE VOUCHER
TO BE PRESENTED AT THE DOOR

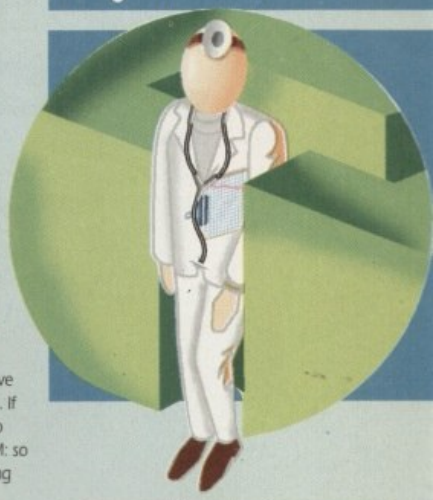
GASTEINER PRESENTS
ATARI AND AMIGA SHOW
10th & 11th JUNE, 1995
EXHIBITION CENTRE
NOVOTEL HOTEL
HAMMERSMITH, LONDON

SPOTLIGHT 1995 SHOW

RRP £5.00
WITH THIS VOUCHER £2.50

Better by design?

Amiga Medical Part 5



Frank Nord churns through your standard start-up-sequence to see how things can be improved

The startup-sequence is one of those things you are advised never to alter. "That's what the user-startup is for", say the sanctimonious Amiga know-it-alls. For the most part they are quite right. You shouldn't just bung the assigns for some game into your startup-sequence, but there are occasions when you will find it extremely useful to edit it.

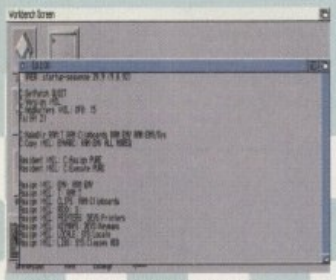
First of all, if you have been paying attention to the series so far, you will remember that I said that you might want to change your REXX: assign from its standard ludicrous position in S:. I also said you might want to change your FONTS: assign, and both these assigns are embedded in your startup-sequence. There is also a load of redundancy built into the startup-sequence just in case there any problems, which slows down its execution and results in unnecessary reads from disk or hard drive. Let's see if we can't clear it all up.

The first section of the startup-sequence for Workbench 3.0 looks like this:

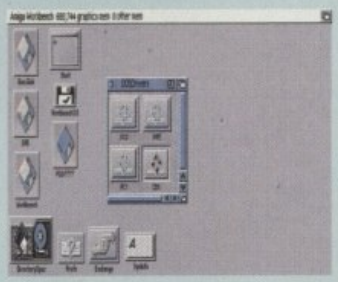
```
; $VER: startup-sequence 39.9 (9.8.92)
C:SetPatch QUIET
C:Version >NIL:
C:AddBuffers >NIL: DF0: 15
FailAt 21
```

The first line is prefaced by a semi-colon (;) which tells AmigaDOS to simply ignore this line. As such we can leave it in, especially as it serves a useful purpose if we need to find out what version of the startup-sequence we are running.

The next line is very important and you shouldn't put any commands before it unless you are explicitly instructed to. Setpatch patches the Kickstart ROMs in your machine to make them as up-to-date as possible. The version command simply returns the internal versions of Kickstart and Workbench. Addbuffers, in the following line, sets the read buffers for df0:. If you have loads of memory and a faster processor, then you can up this value from 15 to, say, 50 to give you a slight speed increase for your floppy drive. If you have more than one floppy, you can duplicate this line for each drive you have.



Here's your bog-standard Startup-Sequence, just waiting to be ravaged



DOSDrivers are similar to mini-mountlists as used by older versions of Workbench

The failat command is there to check whether you actually have a DF0:, if you don't then the buffers won't be added.

The next section in our standard startup-sequence should look like this:

```
C:MakeDir RAM:T RAM:Clipboards RAM:ENV
RAM:ENV/Sys
C:Copy >NIL: ENVARC: RAM:ENV ALL NOREQ
Resident>NIL: C:Assign PURE
Resident >NIL: C:Execute PURE
```

The first two lines from this section set up your Workbench preferences, clipboards and a temporary directory programs can use. So we start off with the creation of four directories in RAM:. Notice that the command to create these four directories doesn't have to be repeated four times, but that everything is all on one line.

RAM:T is the temporary directory, RAM:Clipboards is, fairly obviously, the directory used when you use cut, copy and paste, and RAM:ENV and RAM:ENV/Sys are the directories that environment variables, like your Workbench preferences, are kept in. The next line copies the entire contents of the ENVARC: assign (including sub-directories) into the RAM:ENV directory. The ENVARC: directory is situated in your Workbench's Prefs directory, in the env-archive drawer.

As you probably already know, when you use a Prefs program you can either Save, Use or Cancel. Saving saves the settings you have made to the ENVARC: and ENV: directories. If you Use the settings, they only get saved to your ENV: directory. This directory is in RAM: so what happens when you reboot? Everything gets lost – which is why ENVARC: exists.

The next two lines copy the Assign and Execute commands to RAM: and set them so that when they are called they will be executed from there, speeding the whole boot process up. They get removed from RAM: at the end of the startup-sequence, so you don't have to worry about them taking up precious memory.

```
Assign >NIL: ENV: RAM:ENV
Assign >NIL: T: RAM:T
Assign >NIL: CLIPS: RAM:Clipboards
Assign >NIL: REXX: S:
Assign >NIL: PRINTERS: DEVS:Printers
Assign >NIL: KEYMAPS: DEVS:Keymaps
Assign >NIL: LOCALE: SYS:Locale
Assign >NIL: LIBS: SYS:Classes ADD
Assign >NIL: HELP: LOCALE:Help DEFER
```

This next chunk of the startup-sequence sets up the system assigns. The one to change here is the REXX: assign from S: to a directory you will already have made called, perhaps, ARexx.

```
IF NOT EXISTS SYS:Fonts
Assign FONTS:
EndIF
```

This is the sort of thing we want to cut out – IF-EndIF statements. Our FONTS: assign should be fairly permanent, so add a line to the end of the previous sections with:

```
ASSIGN >NIL: FONTS: SYS:FONTS
```

or wherever you have put the fonts directory.

```
BindDrivers
C:Mount >NIL: DEVS:DOSDrivers/~(#?.info)
```

Binddrivers is the command that adds any peripheral with something in the Expansion drawer to the system. Graphics cards, multi-port cards and hard drive controllers are all examples of peripherals that use the Expansion drawer. The second command in this section, the Mount command, adds any tool with a file in the DEVS:DosDrivers directory. Examples of these include the PC0: driver and CD-ROMs:

```
IF EXISTS DEVS:Monitors
IF EXISTS DEVS:Monitors/VGAOnly
DEVS:Monitors/VGAOnly
EndIF

C:List >NIL: DEVS:Monitors/~(#?.info|VGAOnly)
TO T:M LFORMAT "DEVS:Monitors/%s"
Execute T:M
C:Delete >NIL: T:M
EndIF
```

On every Workbench disk DEVS:Monitors does indeed exist, so we can dispense with the first IF statement and the corresponding EndIF at the end of this section – the rest can stay as it is:

```
SetEnv Workbench $Workbench
SetEnv Kickstart $Kickstart
UnSet Workbench
UnSet Kickstart

C:IPrefs

C:ConClip

Path >NIL: RAM: C: SYS:Utilities SYS:Rexxc
SYS:System S: SYS:Prefs SYS:WBStartup
SYS:Tools SYS:Tools/Commodities
```

This section can also be left as it is, but if you use the Shell a lot you might want to add some more directories to the Path statement. ConClip can be removed to save a very small amount of memory as long as you don't mind not being able to copy and paste text from Shell windows:

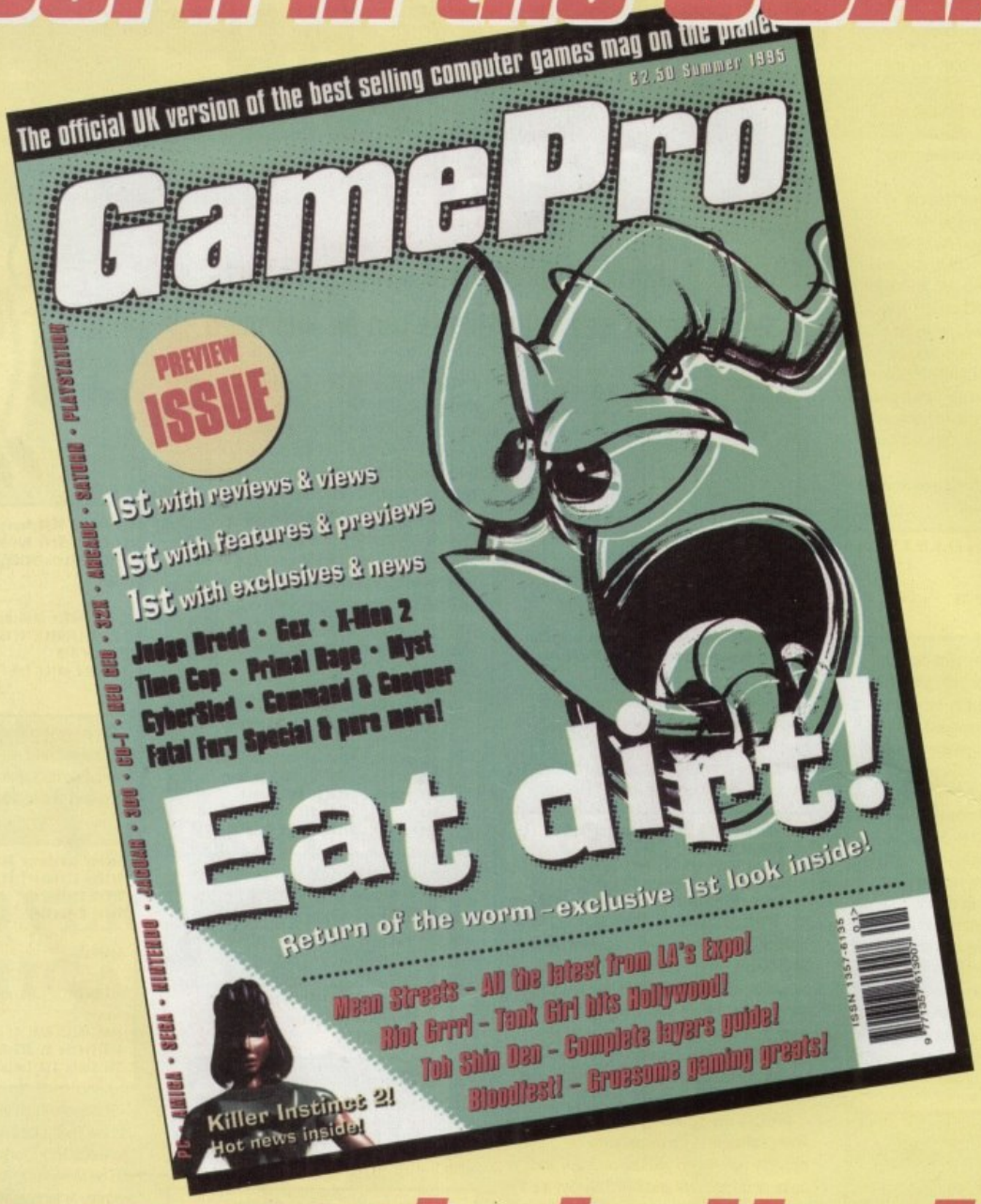
```
IF EXISTS S:User-Startup
Execute S:User-Startup
EndIF

Resident Execute REMOVE
Resident Assign REMOVE

C:LoadWB
EndCLI >NIL:
```

If you've been using your Amiga for some time and especially if you have been following the advice given in this column, you will hopefully have a healthy User-startup going already. If not keep trying.

Not much difference

While this column has dealt with Workbench 3.0s Startup-sequence, the one from Workbench 2.04, 2.1 or 3.1 doesn't vary too much from this pattern, so you should be able to follow through all the advice given here.

Born in the USA...



now made in the UK

GamePro

the official UK magazine

Amiga 3D Part 4

Fanning the flames

Stevie Kennedy looks at a bag full of tricks involving flame effects and the art of transparency

One of the most impressive tricks with a ray tracing package, and the one most likely to have viewers asking "how'd he do that then?" is the flame effect. Candles and space ship engines are only the most common uses for a technique which can be used to simulate smoke, glowing balls of plasma, ghosts – you name it.

Users of LightWave 3D are particularly spoiled in this department. The NewTek package's excellent transparency effect can be carefully adapted to suit most requirements, and with its envelope control of brushmaps and transparency values themselves, LightWave makes for a pretty powerful arsonist.

Imagine fans are a little left out when it comes to flames, and particularly transparency. Even the 3.0 version's transparency texture is a stop-gap measure with limited uses, and if you have an older version of Imagine you simply can't achieve the effects we're pursuing.

The Imagine user with a burning need for pyrotechnics can try an old and simple trick by putting two candle flame-shaped objects inside each other and making the inner one a dark red-orange. Leave the outer object bright yellow and make both about 50 per cent transparent using the 'transpar' texture. For a better effect, try making the outer object a little bit more transparent, but don't go too far – real flames aren't actually all that see-through. To simulate the flickering of flames you'll have to use a paint package to produce a simple two-colour flame animation, then wrap this sequence of images onto the two flame objects. By offsetting the axes on the two objects to ensure they don't show exactly the same view of the images, a reasonably good effect can be achieved.

Your brushmap sequence should be twice as wide as the flame object you are going to use so that wrapping in the X axis doesn't distort it too much. Don't bother wrapping in the Z axis for candle effects, as this will just make them look stretched out.

With version 3.1 the fire texture can be used to good effect, but be warned that it is very slow to render. Altering the aspect of the flame object and making the flames bright blue with a much faster than normal speed makes for a decent thruster, and patient experimentation will result in anything from a candle to a bonfire, so use this texture if you have it (and either a 68040 or lots of spare time).

Could be better, but this flame is a lot more controllable than either the Imagine texture or the (faster and more convenient) LightWave Pro method

There's no need to mess about with brushmaps, however, and the flames themselves are pretty realistic – especially when used for normal fires rather than more exotic sci-fi effects. To force a more elongated thruster look, scale down the X axis of the texture itself using Edit Axes and increase convection speed by a factor of two or three.

TALENTED

LightWave users don't have the same procedural textures available to Imagine 3.1 owners, but the program's other talents make up for this. You will have received a flame surface with last month's LightWave Pro disk, and it's good enough to slap on and use. For a better result, though, it can be altered. The default for this sort of texture, and the method most commonly used, is to slap on a transparency envelope and use the fractal noise procedural texture to create an animated flame. In this way, the texture's velocity creates movement, and where there are darker areas in the fractal noise effect these become more transparent.

However, the drawback is that the flame object itself has sharp, well-defined edges which are unlike most flames. To improve the effect, make the object 100 per cent transparent and use the fractal reflections IFF as a cylindrical image map on the axes, along which you want flames to travel.

Make the edges transparent and re-size the texture itself to match your object. A thruster, for example, will be much longer than it is broad and your texture size must reflect this – don't use automatic sizing. To complete the effect, use texture falloff to ensure the outer edges of the flame are invisible and that the effect stops before the abrupt (and unrealistic) end it would normally meet at the end of the object.

Sample values for a one metre-wide flame which is eight metres long would be falloff of 110 per cent in both Y and Z (to ensure transparency at the edges), and 15 per cent in X (for a flame travelling along the X axis). This would ensure that the flame tapered to a point as it moved away from its source. All you need do now is set a texture velocity, something which is best done over 25 frames using very low resolution previews to create a one second test animation.

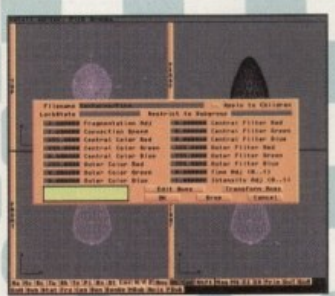
A hundred and one uses

It takes a fair amount of faffing around and experimenting to arrive at a LightWave flame object with which you are happy, but the end result is better and much more flexible than anything to be found in Imagine. I've used versions of the above surface for everything from candles to weird temple altar flames and space ship engines, with only a little editing.

In fact, the use of texture falloff, transparency, and image maps instead of the LightWave Pro method can lead to lots of other effects. In one render which included a frigate and a U-boat, these same techniques worked for the ship's bow wave and wake, the turbulence behind the torpedo propellor, and smoke coming from the ship's funnels.

In LightWave, anything which requires splashes, smoke, fire, or even explosions can be given the same treatment. Once you master the uses of transparency and texture falloff, you'll be surprised at the close control you have over the final appearance of objects.

To give this one a good hard testing, try creating an animated face in DPaint and save the anim to disk as a sequence of images. Now use these and the above techniques to create a ghostly face hovering above the ground. Use the same image maps as bump maps and give them a high texture amplitude of 400 per cent or so. The result won't be disappointing.



Imagine 3.1's fire texture can be used as is for good flames, but renders very slowly and could be more flexible

Engine thrusters require a fast flame with no tell-tale edges, so be brutal with texture falloff and transparency

A picture says a thousand words, though repeating 'crash and burn' 333 times is about as far as this Imagine 3.1 fire image goes

Premier Mail Order

Please Send Cheques/PO's (made out to Premier Mail Order) or Access/Visa/(Switch + Issue No) & Expiry Date to:
Dept: AC07 9-10 THE CAPRICORN CENTRE, CRANES FARM ROAD, BASILDON, ESSEX SS14 3JJ.
Telephone orders: 01268-271172 Fax your order on: 01268-271173 Mon-Fri 9am-7pm Sat&Sun 10am-4pm. We are open 364 days a year
P&P and VAT included for all UK orders. Please add per item £2 P&P for Europe and £3.50 for the rest of the world. Next day service available UK only @ £4.00 per item.
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. E&OE

	500	1200	CD
1 Day Cricket	16.99	----	----
4th & Inches	8.99	----	----
688 Sub Attack	10.99	----	----
A-Train + Construction Kit	12.99	----	----
A10 Tank Killer	12.99	----	----
A320 Airbus (EUROPA)	22.99	----	----
ACID BLITZ COMPILER	29.99	----	----
Addams Family	8.99	----	----
Adventures of Robin Hood	12.99	----	----
Air Bucks 1.2	12.99	----	----
Akira	18.99	----	19.99
Afterburner	6.99	----	----
Aladdin	----	19.99	----
Alien Breed 2	----	19.99	----
Alien Breed 3D	----	19.99	19.99
Alien Olympics	19.99	----	19.99
ALL TERRAIN RACER	17.99	19.99	19.99
Allo! Allo!	16.99	----	----
Altered Beast	6.99	----	----
Amazon Queen	19.99	----	----
Another World	12.99	----	----
Apidya	8.99	----	----
Arabian Knights	8.99	9.99	12.99
Arcade Pool	8.99	----	12.99
Archer Macleans Pool	10.99	----	----
Armour Geddon	16.99	----	----
Award Winners 2	19.99	----	----
B 17 Flying Fortress	12.99	----	----
Baldie	19.99	19.99	19.99
Banshee	19.99	----	19.99
Base Jumpers	17.99	----	19.99
Battlechess	----	----	19.99
Battle Isle '93	17.99	----	----
Battlehawks 1942	12.99	----	----
BEAU JOLLY COMPILATION	22.99	----	----
Beneath A Steel Sky	20.99	----	19.99
Benefactor	17.99	----	17.99
Big Sea	19.99	----	----
Birds of Prey	12.99	----	----
Black Crypt	10.99	----	----
Blastor	17.99	----	----
Bloodnet	A500+	19.99	26.99
Blitz Tennis	19.99	----	----
Blitzkrieg	6.99	----	----
Blitzlight	29.99	----	----
Blue Angels	8.99	----	----
Body Blows Galactic	----	19.99	----
Bravo Romeo Delta	8.99	----	----
Breach 3	22.99	----	----
Brian The Lion	19.99	17.99	17.99
Brutal	19.99	19.99	19.99
Brutal Football	----	13.99	19.99
Bubba n Stix & Premier	----	----	13.99
Bubble Bobble	6.99	----	----
Bubble & Squeak	17.99	19.99	19.99
Budokan	10.99	----	----
Bump N Burn	17.99	----	19.99
Bully's Sporting Darts	8.99	----	----
Bureau 13	----	19.99	19.99
Burning Rubber	16.99	17.99	----
BURNTIME	17.99	17.99	----
Campaign 2	22.99	----	----
Cabal	6.99	----	----
Cadaver/Pay Off	12.99	----	----
Cannon Fodder 2	19.99	----	----
CANNON FODDER	12.99	----	19.99
Cardiaxx	8.99	----	----
Carrier Command	4.99	----	----
Castle Master	6.99	----	----
Caesar Deluxe	12.99	----	----
Champions of Sport	13.99	----	----
Championship Manager End Of Season	----	11.99	----
Championship Manager Italia 95	16.99	----	----
Championship Manager Compendium	17.99	----	----
Chaos Engine	9.99	----	19.99
Charlie J Cool	13.99	13.99	----
Chuck Rock 1 & 2	----	----	13.99
Civilization	24.99	----	----
Classic Board Games	8.99	----	----
CLASSIC COLL - DELPHINE	19.99	----	----
CLASSIC COLL - LUCAS ARTS	19.99	----	----
Club Football	19.99	19.99	----
COHORT 2	19.99	----	----
Colonels Bequest	10.99	----	----
COLONISATION	22.99	----	----
Combat Classics 1	19.99	----	----
Combat Classics 2	19.99	----	----
Combat Classics 3	22.99	----	----
Complete Chess	22.99	----	----
Cosmic Spacehead	17.99	----	----
Covergirl Poker	12.99	----	----
Craft for AMOS	17.99	----	----
Crash Dummies	17.99	----	----
Cruise For A Corpse	12.99	----	----
Crystal Dragon	22.99	----	----
Curse of Enchantia	12.99	----	----
Cybercon 3	10.99	----	----
Cyberspace	22.99	----	----
Cyberwar	----	----	31.99
Cyberworlds	12.99	----	----
D Generation	12.99	----	17.99
D Thompson's Olympic Challenge	6.99	----	----
DARK SEED	12.99	----	19.99
Dawn Patrol	22.99	22.99	----
Death Mask	16.99	----	19.99
Deluxe Paint V	59.99	----	----
Detroit	22.99	22.99	----
Demomaniac	17.99	----	----
Desert Strike	12.99	----	----
Dino Detective Agency	12.99	----	----
Disposable Hero	17.99	----	12.99
Dizzy the Big 6	----	----	12.99
Dogfight	12.99	----	----
Dragon Ninja	6.99	----	----
Dragonstone	19.99	19.99	22.99
Dreamweb	22.99	22.99	----
DUNE 1 OR 2	12.99	----	----
Dungeon Master 2	----	22.99	----
Elfmania	17.99	----	----
Elite +	12.99	----	----
Elite 2 - Frontier	19.99	----	19.99
ELITE 3 - 1ST ENCOUNTERS	----	19.99	19.99
Embryo	17.99	----	17.99
Emerald Mines	----	----	12.99
Empire Soccer '94	19.99	----	----
Epic	12.99	----	----
European Champions	10.99	----	----
Evasive Action	19.99	----	19.99
Excellent Games Compilation	22.99	----	----
Exile	19.99	19.99	19.99
Exterminator	17.99	----	----
Extractors	----	----	19.99
Eye Of The Beholder 1 or 2	12.99	----	----
FORMULA ONE GRAND PRIX	12.99	----	----
F1 World Champ Edition	19.99	----	----
F15 Strike Eagle 2	12.99	----	----
F16 Combat Pilot	8.99	----	----
F17 Challenge	10.99	----	----
F19 Stealth Fighter	11.99	----	----
F117A Stealthfighter	12.99	----	----
F29	10.99	----	----
Fantasy Manager	19.99	----	----
Fields Of Glory	12.99	12.99	22.99
FIFA SOCCER	19.99	----	----
Final Over	10.99	----	12.99
Fire Force	----	----	19.99
Flashback	12.99	----	----
Flight of the Intruder	8.99	----	----
F Sim 2 Japan Scenery	13.99	----	----
F Sim 2 Hawaian Scenery	13.99	----	----
Flink	----	----	17.99
Football Glory	17.99	17.99	----
FOOTBALL GLORY INDOORS	17.99	17.99	----
Front Lines	----	22.99	----
FOOTBALL MANAGER	19.99	----	----
Future Wars	10.99	----	----
Galactic Warrior Rats	8.99	----	----
Global Effect	----	----	8.99
Globdule	10.99	----	----
Goblins 3	22.99	----	----
G Gooch-Second Innings	11.99	----	----
G Gooch-Test Match Special	19.99	----	----
G Gooch-World Class Cricket	19.99	----	----
G Gooch - 94/95 Data Disk	8.99	----	----

	500	1200	CD
G Gooch - Battle for the Ashes	8.99	----	----
G Taylors Soccer Challenge	8.99	----	----
Grand Prix Circuit	8.99	----	----
Guardian	----	19.99	19.99
GUINESS DISC OF RECORDS	----	----	16.99
Gunboat	10.99	----	----
Gunship	10.99	----	----
GUNSHIP 2000	12.99	24.99	22.99
Harina Barbera Animation	29.99	----	----
Hardball	8.99	----	----
Hard Drivin II	8.99	----	----
Hard Nova	8.99	----	----
Head over Heels	6.99	----	----
Heart of China	12.99	----	----
Heimdall	8.99	----	----
Heimdall 2	22.99	22.99	22.99
High Steel	6.99	----	----
HIGH SEAS TRADER	----	22.99	----
History Line 1914-18	22.99	----	----
Hook	8.99	----	----
Hoyles Book of Games 1 or 2 or 3	10.99	----	----
Huckleburry Hound	8.99	----	----
Hudson Hawk	6.99	----	----
Humans 1& 2	----	----	19.99
Immortal	10.99	----	----
Impossible Mission 2025	22.99	24.99	22.99
Indi Jones - Atlantis Adv	12.99	----	----
Indi Jones - Atlantis Act	8.99	----	----
Indianapolis 500	10.99	----	----
Intelligent Strategy Games	19.99	----	----
International Golf	12.99	----	----
Ishar 3	22.99	26.99	----
It's International Cricket	18.99	18.99	----
Ivanhoe	6.99	----	----
J Nicklaus Great 18	6.99	----	----
James Pond 3	----	19.99	19.99
Jaguar XJ220	8.99	----	----
Jetstrike	17.99	19.99	19.99
Jimmy White's Snooker	12.99	----	----
J Barnes Euro Football	8.99	----	9.99
John Madden Football	10.99	----	----
Jungle Strike	17.99	18.99	18.99
K240 - Utopia 2	19.99	----	----
KGB	12.99	----	----
Kick Off 3 European Challenge	16.99	19.99	22.99
Kid Chaos	17.99	19.99	19.99
Kids Rule OK	12.99	----	----
Kingpin	10.99	12.99	12.99
Kings Quest 1, 2, 3, 4 or 5	12.99	----	----
Kings Quest 6	22.99	----	----
Knights Of The Sky	10.99	----	----
Last Ninja 2	6.99	----	----
Leading Lap	19.99	19.99	----
Legacy of Sorasil	17.99	----	17.99
LEGENDS OF VALOUR	12.99	----	----
Leisure Suit Larry 1 or 2 or 3	12.99	----	----
Lemmings 1	----	----	19.99
Lemmings Double Pack	19.99	----	----
LEMMINGS 3	19.99	19.99	----
Lethal Weapon	8.99	----	----
Links -The Challenge	12.99	----	----
Lion King	----	19.99	----
Litil Divil	----	----	19.99
Lombard RAC Rally	6.99	----	----
Loom	12.99	----	----
Lords of the Realm	22.99	22.99	----
LOST EDEN	----	----	22.99
Lotus Turbo Trilogy	----	----	22.99
Lure Of The Temptress	12.99	----	----
M1 Tank Platoon	12.99	----	----
Manhunter "New York"	12.99	----	----
Manhunter "San Francisco"	12.99	----	----
Man Utd - The Double	19.99	----	----
Manvens Marvellous Adv	----	19.99	19.99
Master Axe	19.99	19.99	19.99
Match Day Manager	8.99	----	----
Mean 18	8.99	----	----
Megarace	----	----	22.99
Megatraveller	12.99	----	----
Messengers Of Doom	19.99	----	----
MICROPROSE GOLF	12.99	----	----
Micro Machines	17.99	----	----
Midwinter	10.99	----	----
Midwinter 2	12.99	----	----
MIG 29 Fulcrum	10.99	----	----
Mighty Max	17.99	19.99	----
Mighty Mascapone	10.00	----	----
Mini Office	35.99	----	----
MONKEY ISLAND 1 OR 2	12.99	----	----
Moonbase	34.99	----	----
Monopoly	12.99	----	----
Morph	17.99	19.99	8.99
MORTAL KOMBAT 1 OR 2	19.99	----	----
Mr. Blobby	13.99	----	13.99
Mr. Nutz	17.99	----	----
Mutant League Hockey	17.99	17.99	----
Napoleonics	12.99	----	----
Navy Moves	6.99	----	----
New Zealand Story	6.99	----	----
NHL Hockey 95	27.99	----	27.99
Nick Faldo's Golf	12.99	----	22.99
Nigel Mansells W/Champ	8.99	----	19.99
Nightbreed	6.99	----	----
Night Shift	10.99	----	----
On The Ball-World Cup Edition	19.99	22.99	----
On The Ball-League Edition	19.99	22.99	----
Operation Harrier	8.99	----	----
Operation Stealth	11.99	----	----
Oriental Games	8.99	----	----
Outrun Europa	8.99	----	----
Overdrive	8.99	----	----
OVERLORD	22.99	----	----
Pang	6.99	----	----
Patrician	12.99	----	----
Paraxol Stars	8.99	----	----
PEN PAL(WORDPROCESSOR)	24.99	----	----
PGA European Tour	17.99	17.99	17.99
PGA Tour Golf	12.99	----	----
Pictionary	8.99	----	----
Pinball Dreams & Fantasies	22.99	----	----
Pinball Fantasies	8.99	19.99	24.99
PINBALL ILLUSIONS	19.99	19.99	19.99
Pinball Magic	6.99	----	----
Pirates	10.99	----	----
Pirates Gold	----	----	22.99
Pinkie	17.99	17.99	19.99
Pitfighter	6.99	----	----
Pixie & Dixie	8.99	----	----
PIZZA TYCOON	22.99	----	----
Police Quest 1 or 2 or 3	12.99	----	----
Populous & Promised Lands	12.99	----	----
POPULOUS 2	12.99	----	----
Postman Pat	6.99	----	----
Postman Pat 3	6.99	----	----
Powerdrive	19.99	19.99	19.99
Powerhouse	22.99	22.99	----
Powermonger & D/Disk	12.99	----	----
Predator	6.99	----	12.99
Premiere	----	----	12.99
Premier Manager 3	17.99	17.99	----
Prem Man Multi Edit Sys	10.99	----	----
Prime Mover	10.99	----	----
Prince Of Persia	6.99	----	----
Project X	19.99	----	----
Pro Tennis Tour	6.99	----	----
Pushover	8.99	----	----
Pussies Galore	----	16.99	16.99
Putty	8.99	----	----
Putty Squad	----	19.99	19.99
Puzznic	6.99	----	----
Qwak	9.99	----	----
Quest For Glory 1 or 2	12.99	----	----
Railroad Tycoon	12.99	----	----
Rainbow Islands	6.99	----	----
Rambo 3	6.99	----	----
RBI Baseball 2	6.99	----	----
Reach For The Skies	12.99	----	----
Realms	10.99	----	----
RED BARON	12.99	----	----
Red Heat	6.99	----	----
Reunion	22.99	22.99	----
Rick Dangerous	6.99	----	----
Rick Dangerous 2	8.99	----	----
Rise Of The Robots	25.99	27.99	22.99

	500	1200	CD
Risky Woods	10.99	----	----
Road Rash	10.99	----	----
Robocop 2	6.99	----	----
Robocop 3	10.99	----	----
Robinson's Requiem	(A500+)	22.99	22.99 22.99
Rome AD92	12.99	----	----
Rugby League Boss	9.99	----	----
Rugby League Coach	19.99	----	----
R League Track Suit Man	16.99	----	----
Rules Of Engagement 2	22.99	----	----
Ruff n Tumble	17.99	----	----
Run the Gauntlet	6.99	----	----
Sabre Team (Enhanced)	----	20.99	20.99
SCI	12.99	----	----
Sci Fi Collection	17.99	----	----
Second Samurai	19.99	19.99	19.99
SENSIBLE GOLF	19.99	----	----
SENSIBLE WORLD OF SOCCER	19.99	----	----
Sensible Soccer International	13.99	----	----
Settlers	19.99	----	----
Shadow Warriors	8.99	----	----
Shadowlands	8.99	----	----
Shaq Fu	17.99	----	----
Shuttle - S/Flight Sim	12.99	----	----
Sierra Soccer	16.99	----	----
Silent Service 2	12.99	----	----
Sim City 2000	----	26.99	----
Sim Classics (Ant/Life/City)	22.99	----	----
Sim Life	10.99	22.99	----
Simon The Sorceror	22.99	26.99	26.99
SIMON THE SORCEROR 2	22.99	26.99	26.99
Simpsons	8.99	----	----
Sink or Swim	8.99	8.99	----
Skeleton Krew	6.99	----	----
Skidmarks	12.99	----	----
SKIDMARKS UPGRADE	12.99	----	----
SKIDMARKS 2	19.99	----	19.99
Skitchin	17.99	19.99	17.99
Sleepwalker	8.99	8.99	----
19.99			
Sly Spy	6.99	----	----
Snapperazzi	13.99	----	----
Soccer Kid	9.99	9.99	19.99
Soccer Team Manager	10.99	----	----
Software Manager	17.99	----	----
Soup Trek (Search For Stock)	19.99	----	----
Sooty & Sweep	6.99	----	----
Space Academy	19.99	----	17.99
Space Crusade	8.99	----	----
Space Quest 1 or 2 or 3 or 4	12.99	----	----
Speedball 2	8.99	----	12.99
Speris Legacy	19.99	----	19.99
Spherical Worlds	17.99	----	17.99
Stardust Special Edition	9.99	----	----
Star Crusader	19.99	19.99	19.99
Starlord	24.99	----	----
Street Fighter 2	12.99	----	----
Strike Fleet	10.99	----	----
Striker	8.99	----	19.99
Strip Pot	----	----	19.99
Stun Runner	6.99	----	----
Stunt Car Racer	6.99	----	----
Suburban Commando	16.99	----	----
Subversion	8.99	----	----
SUBWAR 2050	----	24.99	22.99
Super Hang On	6.99	----	----
Super Space Invaders	8.99	----	----
Super League Manager	19.99	19.99	19.99
Super Loopz	----	17.99	19.99
Super Methane Brothers	8.99	----	8.99
Super Monaco Grand Prix	8.99	----	----
Super Putty	----	----	12.99
SUPER STARDUST	----	19.99	19.99
Super Streetfighter 2	20.99	20.99	20.99
Superfrog	----	----	12.99
Superskidmarks	19.99	----	19.99
Supremacy	10.99	----	----
Tactical Manager - English or Scots	19.99	----	----
TACTICAL MANAGER 2	19.99	----	----
Team 17 Coll Vol 1	19.99	----	----
Team Yankee	12.99	----	----
Test Drive 2	6.99	----	----
Test Match Cricket	16.99	----	----
Terminator 2	6.99	----	----
Tetris	16.99	----	----
T F X	----	26.99	----
The Big E - Dizzy	12.00	----	----
The Blue & The Grey	22.99	----	----
The Clue	19.99	19.99	19.99
The Games	10.99	----	----
The Greatest - Compilation	21.99	----	----
The Publisher	22.99	----	----
Their Finest Hour	12.99	----	----
Their Finest Missions	9.99	----	----
THEME PARK	22.99	22.99	22.99
Thomas Tank Pinball	12.99	----	----
Tiny Troops	22.99	----	19.99
Toki	8.99	----	----
Top Gear 2	17.99	17.99	19.99
Total Recall	6.99	----	----
TOWER ASSAULT	13.99	13.99	19.99
Tower of Souls	19.99	19.99	----
Track Suit Manager 2	17.99	----	----
Traps & Treasures	17.99	----	17.99
Trivial Pursuit	6.99	----	----
Trivial Pursuit Deluxe	----	----	19.99
Turbo Trax	19.99	----	----
Turning Points	12.99	----	----
U.F.O.	22.99	24.99	22.99
Ultimate Body Blows	----	----	19.99
Ultimate Golf	8.99	----	----
Ultimate Pinball Quest	19.99	----	----
Ultimate Soccer Manager	19.99	19.99	----
Uncovered	17.99	----	----
Universe	22.99	----	22.99
Untouchables	6.99	----	----
Utopia	8.99	----	----
Valhalla - Before the War	22.99	----	----
Valhalla - Lord Of Infinity	19.99	----	----
Voyages Of Discovery	13.99	----	----
Vital Light	19.99	----	19.99
Wembley Rugby League	17.99	17.99	----
Wild Cup Soccer	17.99	17.99	19.99
Wing Commander	12.99	----	----
Winter Gold	12.99	----	----
Wiz N Liz	10.99	----	----
Wizkid	10.99	----	----
World Class Cricket	----	----	19.99
World Class Leaderboard	10.99	----	----
World Cup Golf	----	----	29.99
World Cup USA '94	17.99	----	----
WORLD CUP YEAR '94	19.99	----	----
World of Football	19.99	----	----
World of Golf	17.99	----	----
Worlds at War	6.99	----	----
Worlds of Legend	12.99	----	----
WORLD CUP GOLF	----	----	19.99
Worms	17.99	----	19.99
Wreckers	19.99	----	----
WWF 1 or 2	19.99	----	----
X-IT - Zonked	19.99	----	----
Z-Out	6.99	----	----
Zak McKraken	10.99	----	----
Zee Wolf	19.99	----	----
Zool 1 or 2	----	----	19.99

SPECIAL OFFERS

Allen Breed 2	12.99	----	----
Arabian Knights	8.99	----	----
Body Blows	12.99	12.99	----
Chaos Engine	9.99	----	----
Cool World	8.99	----	----
Jack Nicklaus Unlimited	12.99	----	----
J Nicklaus Designer Clip Art	9.99	----	----
MICROPROSE GOLF	12.99	----	----
Nick Faldo's Golf	12.99	----	----
Sensible Soccer 92/93	12.99	----	----
Star Trek 25th Anniversary	----	13.99	----
SYNDICATE	12.99	----	----
TORNADO	9.99	9.99	----
Vikings	8.99	----	----
Walker	9.99	----	----

	500	1200	CD
Zool	8.99	----	----

EDUCATIONAL

10/10 Dinosaurs (All Ages)	18.99	----	----
10/10 Driving Test (Learners)	18.99	----	----
10/10 Early Essentials (3-7)	18.99	----	----
10/10 English (6-16)	18.99	----	----
10/10 Essential Maths (5-12)	18.99	----	----
10/10 German (8-16)	18.99	----	----
10/10 French (8-16)	18.99	----	----
10/10 Junior Essentials (5-11)	18.99	----	----
10/10 Maths Algebra (8-16)	18.99	----	----
10/10 Maths Numbers (6-16)	18.99	----	----
10/10 Maths Statistics (6-16)	18.99	----	----
10/10 Structured Spelling (-9)	18.99	----	----
ADI GCSE Maths/English/French	22.99	----	----
ADI Junior Counting (4-5) or (6-7)	13.99	----	----
ADI Junior Reading (4-5) or (6-7)	13.99	----	----
Better Spelling (8-10)	13.99	----	----
Better Maths (12-16)	13.99	----	----
Cave Maze (8-12)	10.99	----	----
Count and Add (3-5	8.99	----	----
Fraction Goblins (8-13)	10.99	----	----
F School 2 (-6) or (6-8) or (8+)	6.99	----	----
F School 4 (U 5)/(5-7) or (7-11)	16.99	----	----
F School Maths (7-11)	17.99	----	----
F School Paint & Create (5+)	17.99	----	----
F School Spelling Fair (7-13)	17.99	----	----
Hutchinson Encyclopedia	----	----	12.99
Grollers Encyclopedia	----	----	22.99
Junior Typist (5-10)	10.99	----	----
Kid Pix	10.99	----	----
Magic Maths (4-5)	13.99	----	----
Maths Dragons (6-13)	10.99	----	----
Maths Mania (8-12)	13.99	----	----
Mix and Match (3-5)	8.99	----	----
Noddy's P/Time or Big Adv (3+)	16.99	----	----
Picture Fractions (7-10)	10.99	----	----
Reasoning With Trolls (5-12)	10.99	----	----
Thomas Tank Eng Collection	12.99	----	----
Thomas Tank Eng Paint Pack	10.99	----	----
Tidy The House (6-10)	10.99	----	----

JUNIOR ADVENTURES

Robin Hood (8+)	13.99	----	----
Scrooge - Xmas Carol (8+)	13.99	----	----
Spellbound (7-16)	8.99	----	----
The Three Bears (5-10)	13.99	----	----
Wind In The Willows (6+)	13.99	----	----
Wizard Of Oz	13.99	----	----

JOYSTICKS & ACCESSORIES

10 Capacity 3.5" Disk Box	1.99
40 Capacity 3.5" Disk Box	4.99
50 Capacity 3.5" Disk Box	5.99
80 Capacity 3.5" Disk Box	6.99
100 Capacity 3.5" Disk Box	7.99
Analog Joystick Adaptor	4.99
Cheetah 125+	7.99
Cheetah Bug	11.99
Competition Pro Joypad for CD32	13.99
Freewheel Steering Wheel	24.99
Gravis Adv Switch Joystick	22.99
Gravis Gamepad	15.99
Mouse	10.99
Mousehouse	1.99
Mousemat	1.99
Joystick Extension Cable	6.99
Joystick Y Splitter	4.99
Logic 3 Delta Ray Autofire JY156	10.99
Logic 3 Quatro GT Autofire JT155	10.99
Logic 3 Quatro JT154	8.99
Quickjoy Hyperpad	8.99
Quickjoy Jedigher	11.99
Quickjoy Pedals	13.99
Quickjoy Topstar	17.99
Quickjoy II Turbo	10.99
Saitek Megagrip 2 Autofire MX220	10.99
Screenbeat 2 Speakers SB203	11.99
Screenbeat 5 Speakers SB205	19.99
Screenbeat Pro 50 Speakers SB250	32.99
Screenbeat RCA Adapter Cable	1.99
Screenbeat Power Supply	7.99
Suncom Stik Stick	5.99
Suncom Tac 2	7.99
SX-1 for CD32	189.99
Wico Q Stick	4.99

3.5" Blank Discs

	TDK		Precision		Unbranded	
	Low	High	Low	High	Low	High
10	5.99	6.99	3.99	5.99	3.50	4.99
20	11.50	13.50	7.50	11.50	6.50	9.50
50	27.50	32.50	17.50	27.50	16.25	22.50
100	52.50	62.50	32.50	52.50	29.99	42.50

RECYCLED DS/DD Low Density
10 @ 2.99 20 @ 5.50 50 @ 12.50 100 @ 22.50

PD & Shareware

BUSINESS

B001 A-Gene (1 meg)	1.25
B002 Business Card Maker	1.25
B003 Database Master	1.25
B004 Ami Cash	1.25
B005 Ambase Prof	1.25
B006 600 Business Letters	1.25
B007 Text Engine	1.25
B008 PC Task	1.25
B009 Tie-a-fax	1.25
B010 QED	1.25
B011 A-graph	1.25
B012 Text Plus VERSION 4	1.25
B013 Analyser Adv	2.50
B014 Cheque Book Account	1.25
B015 Stock Analyst	1.25
B016 Little Office	1.25
B017 Budgets V1.34	1.25

EDUCATIONAL

| | |
|---

The AmigaDOS console device

A lot of ARexx users tend to write scripts where program output is achieved using ARexx's Say instruction coupled to a conventional Shell window. Unfortunately, this approach has some disadvantages such as the need for the Return key to be hit before the program takes any notice of your input.

This effect, due to an inherent characteristic of the normal Shell window, can be eliminated by using a special console window known as a 'raw' window – so called because its input stream provides raw keypress information as soon as keys are pressed). Another limitation with Say is that it always forces a new line at the end of its output and sometimes this may not be exactly what you want. The solution here is to forget about Say and use ARexx's file-oriented I/O (input/output) instructions to read and write to the window instead. As far as opening a raw window is concerned this can be done by using the built-in library function Open() in this manner:

```
call Open(raw_window,'RAW:40/40/560/200/example_script.rexx')
```

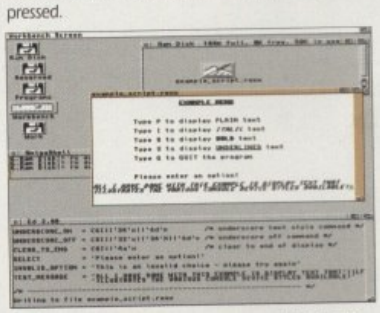
The second argument specifies the console type, top-left position and initial size of the window. The first argument, which I've called raw_window, is the file handle used for all I/O operations connected with the window. For example, to write text strings into the window we would use the Writech() function like this:

```
call Writech(raw_window, 'some example text')
```

There is also a corresponding file input function called Readch(). The arguments needed in this case are the file handle and the number of characters to be read, so the code to collect one character from the raw_window and place it in a variable called keypress$ can be written as:

```
keypress$=Readch(raw_window,1)  /* read a character */
```

Because, in this case, we are dealing with an AmigaDOS raw window, the function returns immediately a keypress is detected, i.e. the program does not need to wait for the return key to be pressed.



A few control sequences are all that are needed to produce text displays like these

Text style	
0	Plain text
1	Boldface
3	Italic
4	Underscore
7	Reversed character/cell colours (inverse on)
22	Bold off
23	Italic off
24	Underscore off
27	Reversed off (inverse off)
Character colour	
30-37	system colours 0-7 for character colour
39	reset to default character colour
Character cell colour	
40-47	system colours 0-7 for cell colour
39	reset to default character colour
Background colour	
>0-7	System colours 0-7 for background colour

Table 1: Some useful graphic rendering control settings (in ASCII form).

Menu coding, scripts that react at once to keypress data, console display control – it's all here

Putting it all together

The example on the cover disk is a simple Shell 'menu' program which displays a list of things to do, asks the user to select an option, collects the response, and then carries out the appropriate action. The thing to notice is that, having opened a raw window, all I/O operations are done using Writech() and Readch() and it is this, coupled with the use of a cursor positioning function, which provides the greater flexibility.

I've chosen, somewhat arbitrarily, to provide options which specify various text styles using a series of 'pseudo-constant' definitions placed at the start of the program (using the ideas outlined in previous instalments). These define text messages, special constants and, of course, the console control sequences themselves.

Incidentally, it is well worth knowing a bit about console device use. Some console device control sequence characters, like Backspace (8 hex) and Return (13 hex), behave just like you'd expect from their ANSI/ASCI definitions, but others produce more Amiga-flavoured responses. A Linefeed, for example, gets translated to the Return/Linefeed combination, the Bell character (07 hex) produces a DisplayBeep() Intuition call, while the reception of a Formfeed character (0C hex) actually clears the display.

As well as these simple commands, there are a host of more sophisticated sequences available that handle cursor positioning, line insertion, scrolling, event reading and so on.

Console device use is a massive subject in its own right and you'll need to look in the Amiga ROM Kernel 'Devices' reference manual for the full story. One sequence worth mentioning, because it finds use in a great many ARexx scripts, is that used for changing the text style, character, character cell, and background colours used by a console window.

The general arrangement here is that you send a CSI (control sequence introducer) character followed by any number of graphics setting parameters. With the exception of background colour settings – which must be specified last – these parameters can be supplied in any order, separated by semicolons (3B hex). The end of the sequence should be marked by sending a 'm' (6D hex) termination character.

Table 1 gives control sequence values for a number of useful effects. Do note that the numbers shown represent individual ASCII characters to be transmitted rather than the equivalent hexadecimal values. For example, to select an inverse display you must send the ASCII character '7', i.e. the value 37 hex. Similarly, to turn off the inverse display you'd send the two ASCII characters '27', i.e. 32 hex followed by 37 hex!

You'll be able to see examples of how such sequences are used to produce italics, bold print and so on by examining the cover disk script (and also running it from a Shell window using the RX command). Next month I'll round off these discussions with some other console device related details!

Amiga Computing

Doom & Maelstrom on your Amiga? Hell, yes!

August's *Amiga Computing* is going to be a veritable mine of information. Ever wanted a PC or Mac so badly that you would actually go out and buy one? Of course not, but we're going to show you how easy it is to emulate one on your Amiga.

In a follow-up to this month's in-depth coverage of the Escom buy-out deal, prepare for an interview with Manfred Schmitt, the head honcho of the company that now owns Commodore.

We'll also be having a close look at the latest release of that world-beating image processing tool, Photogenics, which now hits version 1.2.

The games players among you will be pleased with the superb coverage we give to the latest games releases, including Virocop, and previews of forthcoming games.

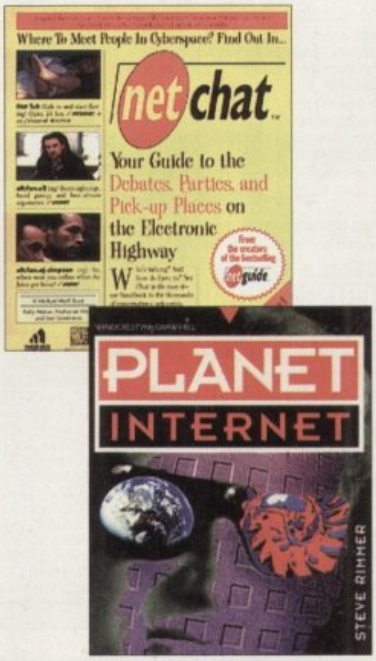
Together with reviews of AmiTCP/IP v4.2, Fiber Factory for LightWave and much, much more, *Amiga Computing* is the only Amiga magazine you'll ever need.

Amiga Computing – on sale from 29 June.

PS Feeling lonely? Want something informative, interesting and inspired on the Internet? Take a look at our official home page by typing in the following URL web address:

http://www.demon.co.uk/amigacomp/

Oops! wrong planet



Phil South looks at two new Internet books

There are few things as useful to the Net Potato at large than the 'really Good Guide Book.' Okay, so you can surf about like a loony clicking on buttons, looking about for cool stuff and running up your phone bill, but it's much more elegant to know where you're going and go right there, perhaps stopping off a little on the way. It's like the difference between travelling somewhere by car with a map and just diving into your car and seeing where the road takes you. The latter approach burns a lot of gas to no end, and probably gets you lost. The former approach gets you to some very interesting places quickly and efficiently.

One such book of the plethora of dire Internet books that have recently flooded the market is 'Planet Internet' by Steve Rimmer (Windcrest/McGraw Hill), a self proclaimed "irreverent guide to the Internet's pubs, curiosity shops and back alleys."

A lot of Internet books will tell you how the Net works and give you a lot of information about protocols and really dull stuff like that. Planet Internet gives you a really useful list of places to visit on the Internet and a snippet of information from the relevant sites.

There are a number of books which try to cram in a load of URLs and gopher and FTP sites into as big a book as they can find – most of which are out of date and no longer there. The difference with Planet Internet is that it concentrates on quality, so although there are relatively few references in it, it is very good and the sites have been quite extensively researched to make sure, within a reasonable certainty, that the sites are going to be where you left them.

The other thing I find refreshing about the book is that it has a lot of style. It has been luxuriously designed and printed, and is an extremely good book to read and hold. The content will keep you chuckling long into the night, and once you have it and have finished reading it from cover to cover (which is what you will want to do to it, believe me), it will stay very close to your computer for when you fire up your Net software.

Verdict? I think you can tell from the way I talk about it that this is a book I like rather a lot. It's a slickly produced book with a nice feel to it, and there is, in fact, a lot of information in it. Definite thumbs up.

In comparison

The other book on review this month is 'Net Chat' by Kelly Maloni, Nathaniel Wice and Ben Greenman (Random House/Michael Wolff & Co), the makers of Net Guide. Where Planet Internet is specifically targeted at the strange, Net Chat is aimed at the sleazy. The idea is that you can pick up people on the Net and have Cybersex.

Er, actually no, that's not really what it's about, but that's what the cover lines would have you believe. This is tabloid Net journalism. The cover is lurid and the content spiced with nudish pictures downloaded from various BBS sites and various non-Net places like CompuServe. (CompuServe? I thought that was a family show, no nudes allowed? Oh well, you live and learn.)

Again, I wouldn't like you to think I don't like this book, because actually I do. It has its failings, however. Firstly, it goes for quantity rather than quality. Secondly, it contains a lot of info about BBSs not available in the UK – in other words it is a little bit US-centric. The preface of the book says that the Net is The Internet, plus CompuServe, Delphi, America Online, The Well, Echo, FidoNet, which of course it isn't, at least not to me. The Net is a place I can reach from my computer, wherever you might be in the world. It is not scratty little Adult BBS' in Atlanta, Georgia.

A lot of the more interesting things in the book are on BBS' rather than on the Internet, so are largely inaccessible from the UK, and that almost halves the amount of hard info you'll get out of the book. It is an entertaining read, however, and although most Net heads would know a lot of this stuff already, it is interesting to see how much dubious material there is on the Net.

The book is one of the few I've ever seen with an Adults Only sticker on the cover. Reading some of the entries inside I can easily see why, and I welcome this kind of approach. Some things are for adults and some are for kids, and there's little point in softening everything so it won't offend anybody. But I think more than anything that the sticker is a marketing ploy to give the book more weight than it actually has.

Net watch

For those of you who are still looking around for new places to explore on the Internet, how about some of these for size:

Satellite TV Images – some really odd TV pictures from around the globe, all digitised and ready to paste into your latest multimedia extravaganza.
http://itre.uncecs.edu/misc/images/images.html

atom Co. Ltd. – a very cool Japanese site with lots of photographs and very Japanese arty stuff. Some nice links too.
http://www.atom.co.jp/

Nomadic Research Labs –ever wonder what happened to that wacky Tech Nomad dude, Steven Roberts? You know, the guy who rode across America on a recumbent cycle which had a SparcStation in the trailer? Well, he's off building the Microship, a seagoing version, and this is where you can get updates on what he's been doing.
http://microship.ucsd.edu/

The Wiretap Web Site – home of a lot of odd texts, the site has now moved over to a more modern Web-based interface. Lots to read, and well worth the effort of downloading something.
http://www.spies.com/

The WWW Virtual Library: Unidentified Flying Objects – the best source of info about UFOs including links to other sites.
http://www.bgsu.edu/~jzawodn/ufo/index.html

Look out next month for a new front end to your Amiga TCP/IP exploits on the Internet.

If you have any BBSs you'd like to tell me about, or there's anything you'd like to find on the Internet but can't, then please feel free to ask me. Hell, I can only say no! You can reach me by e-mail at these locations:

Internet
phil@snouty.demon.co.uk
CIX snouty
The Direct Connection snouty
CompuServe 100102,1500
Delphi snouty@delphi.com

or by post to:

Phil South
Comms Section, Amiga Computing, Media House, Adlington Park, Macclesfield SK10 4NP.

COLOUR KITS for MONO PRINTERS

Ever wished you'd bought a colour printer instead of a mono one? Wouldn't it be nice to print out pictures in colour? Now you can with Amiga "FlexiKolor Kit". Each Amiga FlexiKolor kit comes complete with everything you need to print in colour, including superb software. The colour kit is simple to use, the ribbons fit exactly the same way as your black ribbons so it will not affect your guarantee. Also on all models listed below paper alignment is automatic, you do not have to manually align. PRINTS AS GOOD AS COLOUR PRINTER. If your printer is not listed below please phone. Amiga FlexiKolor kits for Star LC10, LC20, all Star 24 Pin. Panasonic 1080/81/1123/1124. Epson FX80, FX100, LQ800 etc. Citizen 120D+. NEC P6, P6+. Please note colour kits come complete with coloured ribbons. Anti banding now included in software. **COMPLETE KIT £39.95**

FLEXIDUMP 3

"Consider it to be as important as your power cable" (CU Amiga, Nov 92)

NO MORE BANDING!
NO MORE WHITE LINES!
COLOUR GRAPHICS LIKE YOU'VE NEVER SEEN BEFORE!

Yes it's true the new Flexi 3 will remove banding and white lines from dot matrix & bubblejet printers. Now you can have laser quality on your printer.

Other new features include:-

- ★ Balanced control for picture enhancement
- ★ Select area to be printed
- ★ Select size to be printed
- ★ Page control
- ★ Colour sieve
- ★ Ink correction
- ★ Automatic poster mode for larger than A4
- ★ Gamma correction
- ★ Spooler for colour letterheads etc
- ★ Colour separation
- ★ Now with anti-aliasing to remove jagged edges
- ★ Large range of dithering (dot pattern)
- ★ Variable level of shingling to totally remove banding and white lines
- ★ Colour catalogue function will print a miniature of each picture configuration between 1-8 across you.
- ★ Suitable for Citizen, Epson, Hewlett Packard, NEC, Panasonic, Seikosha, Star and just about any dot matrix or inkjet/bubblejet/laserjet printer.

~~ONLY £39.95~~ CARE SPECIAL £29.95

UPGRADE FLEXIDUMP TO FLEXIDUMP PLUS 3, ONLY £14.95 INC. RETURN MASTER DISK

INKJET REFILLS

For: HP DESKJET 500, 510, 520, 550, 500C, 550C, 560C. EPSON STYLUS 800, 1000. CANON BUBBLEJET BC-01, BJ10E/EX/SX, BC02, BJ200, BJ130, BJ300, BJ330. OLIVETTI JP150, 250, 350. CITIZEN PROJET.

3 Refill Kit 60ml pure black £8.99
6 Refill Kit 120ml pure black £16.99

CANON BJC 600, BJC 400

10 Refill Kit 60ml pure black £8.99
20 Refill Kit 120ml pure black £16.99

TRICOLOUR REFILL KITS FOR H.P. DESKJET RANGE Canon BJC600, BJC4000 etc. 10 Refills of Yellow, Magenta & Cyan 180ml £24.99

Print Head Recovery Fluid for unblocking nozzles £5.95

Important: Please state type when ordering as our inks are specially formulated to match the Printer and NOT a general purpose ink.

BLACK PRINTER RIBBONS

Don't throw away your plastic printer ribbon cases when the ribbon wears out just take the top off, take out the old ribbon and reload it with a new one. Black reloads from as little as 99p each.

SPECIAL RE-INK

For Panasonic Printers, Star LC200 9 Pin, Epson LQ100, Oki 182/390. Black bottle will re-ink 100+ ribbons £9.95

COLOUR PRINTER RIBBONS

Don't throw away your plastic printer ribbon cases when the ribbon wears out. Just take the top off, take out the old ribbon and reload it with a new one. It's simple. Full instructions supplied.

Reloads for:-

Star LC200 9 Pin 4 Colour (Normal Ink)
1 Reload – £5.99 ..... 5 Reloads – £23.95

Star 24 Pin 4 Colour (Normal Ink)
1 Reload – £6.99 ..... 5 Reloads – £29.95

Citizen Swift/ABC 4 Colour (Normal Ink)
1 Reload – £6.99 ..... 5 Reloads – £29.95

Seikosha SL95/96 4 Colour (Normal Ink)
1 Reload – £6.99 ..... 5 Reloads – £29.95

Panasonic KXP2180/2123/2135 4 Colour (Normal Ink)
1 Reload – £6.99 ..... 5 Reloads – £29.95

Ink ribbons also available in Gold, Silver, Magenta, Orange, Purple, Brown, Green, Blue, Red for a wide range of printers.

T-SHIRT PRINTING RIBBONS

PRINT ON NORMAL PAPER IRON ON T-SHIRT

4 Colour Citizen Swift	£29.95
4 Colour Citizen Swift (Reload)	£14.95
4 Colour Star LC10	£14.95
4 Colour Star LC200 9 Pin	£19.95
4 Colour Star LC200 9 Pin (Reload)	£12.95
4 Colour Star LC200 24 Pin	£29.95
4 Colour Star 24 Pin (Reload)	£14.95
1 Colour Star LC10	£11.95
1 Colour Star LC200 9 Pin	£11.95
1 Colour all Star 24 Pin	£11.95
1 Colour Epson FX80/LQ400/MX80	£11.95
1 Colour Epson LX80	£11.95
1 Colour Epson FX100	£11.95
1 Colour Panasonic KXP 1080	£11.95
Heat transfer Pens 5 large red/orange/yellow/green/blue. Large pens have a marker size nib	£14.95 a set
Heat transfer Pens 5 small red/orange/yellow/green/blue. Small pens have a fine nib	£12.95 a set

How to order: Enclose cheques/PO made payable to: CARE ELECTRONICS or use Access/Visa

CARE ELECTRONICS

Dept AMC, 15 Holland Gardens, Garston, Watford, Herts, WD2 6JN. Fax: 01923 672102

ORDER LINE ON 01923 894064

ALL PRICES INCLUDE VAT AND CARRIAGE

SCANNING SERVICE

EVER NEEDED SOME ARTWORK OR A PHOTO SCANNING?

ARE YOU SICK OF USING "CUT AND PASTE" METHODS TO GET YOUR ARTWORK ON PAPER?

EVER WANTED TO USE ONE OF YOUR FAVORITE PHOTOS AS AN AGA/VIDEO BACKDROP?

EVER WANTED TO SMARTEN UP YOUR VIDEO PRESENTATIONS WITH CUSTOM GRAPHICS?

50 dpi - 1200 dpi

IN ANY FORMAT FROM MONOCHROME TO 24 BIT

We provide finished scans on disk, in any standard IFF file format/resolution from your original artwork and/or photos up to A4 in size. If required we can also supply finished scans in most PC formats (PCX, Tiff, Gif, Targa, BMP etc) on MS-Dos HDdisks.

EMC INFO PACK

YES FOLKS! WE ARE STILL HERE AND...
...WE ARE STILL THE UK'S LEADING FONT AND CLIPART DISTRIBUTORS!

*The **HARD COPY** EMC information pack includes full details of **ALL** the fonts EMC has on offer, inc. Computer Safari Fonts, along with full font printouts, details of our PNM and scanning services, details of our ECS 16 colour and AGA 256 colour image collections, details of our PCX, GEM, monochrome, EPS, IMG, multiformat and colour clipart, a font and clipart compatability guide and many example printouts from our huge clipart collections.*

To get your copy, please send us your name and address, along with... £1.00 & 38P POSTAGE *(Payment can be made with either stamps, postal orders or cheque)*

MasterCard VISA DELTA EUROCARD

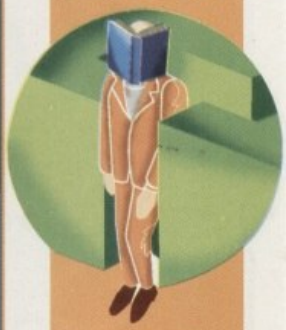
E.M.COMPUTERGRAPHIC

8 EDITH ROAD, CLACTON, ESSEX. CO15 1JU
Tel : 01255 431389 9am - 6pm Monday to Friday Fax: 01255 428666

Exclusive UK & European Distributor for
COMPUTER SAFARI
Desktop Publishing Typefaces

PSD

Style is a state of mind



Frank Nord has a look at style tags and their time-saving uses

A friend of mine is laying out a brochure for someone he knows. He admits he isn't very good at all this DTP malarkey, so he came and asked me for some help. He has a good eye for layout, but the technical intricacies of using PageStream were defeating him. Anyway, I suggested he use my machine to layout this brochure so that a) I would be able to assist him in his endeavours, and b) he would be giving me some new material for this column.

And so we looked at the design elements for the brochure. The client wanted an A4-sized brochure with an insert that, if you can imagine it, was another sheet of A4 folded along its longest axis one third of the way across the page, so that when you opened the brochure there was a flap one third of a page in size, followed by a second flap, two thirds of a page in size, followed by the back page of the brochure. All in all, a nice layered effect.

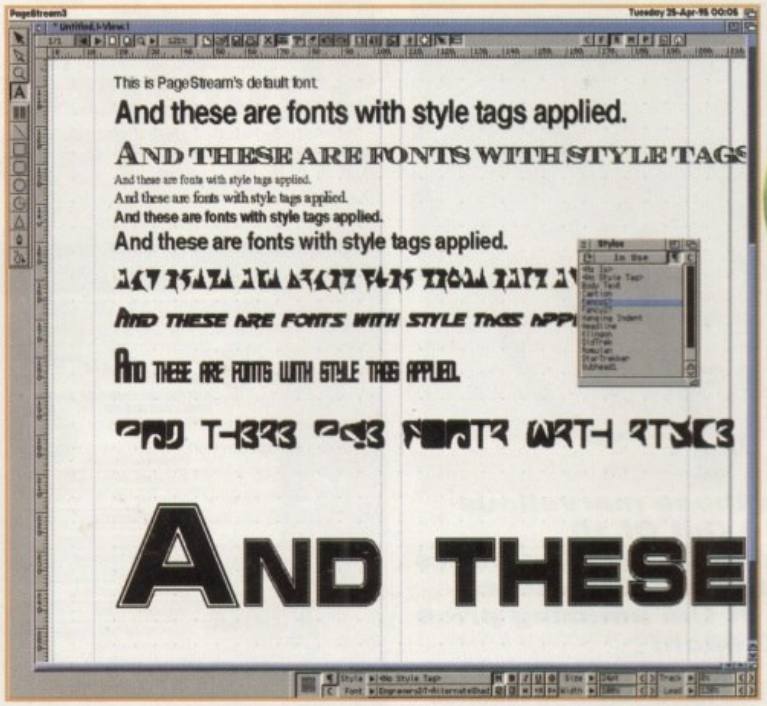
The first thing we did was to make a mock-up of the brochure using a sheet of A3 and one of A4. Then we got the text and images the client wanted inserting, but at this point there had been no decision made as to typography. My friend had made some suggestions and had started laying out the text on the pages, but when the client saw the results he wasn't very happy with the text style and had only really gone ahead with things because he wasn't sure about what typefaces were what. This demonstrated the need for font spec sheets and even more importantly, style tags.

TIME-SAVERS

I know that whenever I mention Style tags to anyone, they groan and say they are a waste of time and more hassle than they are worth to set up. "Bosh!", I usually retort, and with good reason as my friend was to discover as he spent an hour and a half reformatting the text he had put on the page. This time I sat down with him and we set up a range of style tags pertinent to the situation. We made a headline tag, one for section headings, subheadings, body text and finally, one for captions.

This took about ten minutes to set up, but once we had finished, the longest time involved in changing the typefaces used was waiting for PageStream 3's screen to update. What is even better with this version of the software is the fact that you can now set up style tags for objects as well as text. And, as we all secretly know and understand, however much we grumble about it, style tags are almost guarantors of consistency between documents.

If you are writing a newsletter, or putting together a fanzine, there is nothing worse for your readers than having the style jump around from one issue to the next. "But", I hear you cry, "we don't all write newsletters or magazines." I'm sure this is the case. However, even if you only use PageStream occasionally, it would be beneficial for you to set up some often-used styles, for an address perhaps, or differing styles for personal or business letters.



A wide variety of styles, not all of which are useful to sane people

Again, if you are using PageStream 3, think how much easier it would be to simply use style tags for gradient fills and border styles, rather than having to draw your box, go to the line/fill requester and make numerous clicks with the mouse and taps on the keyboard.

Once you have gone to the effort of sitting down and setting a few up, life will be so much easier in the future. You wouldn't even have to set aside a special session to do it – just remember, the next time you want a gradient fill, or particular line style, don't just make it up as you go along, set it as a style tag. This way you will be able to build up a library of useful tags for both text and objects with very little effort.

Star Trek fonts

As you can see from the screenshot, the same piece of text can have quite a different look with a different typeface, or even just a different style or size. Some of the fonts used here are based on those used in the Star Trek and Star Trek Next Generation TV shows.

These are complete, commercial postscript fonts which are available from EM Computergraphic 01255 431389. I must admit to not really being a fan of the Star Trek shows, but you have to admire the obsessive nature of someone who could sit down and create a Klingon or Romulan typeface.

PageStream 3 progress

Well, as of 24 March, the version number for PageStream moves to 3.0g. This version is faster again than 3.0f, but still not up to full speed, and printing for non-postscript printers is still pretty slow, although landscape printing has now been implemented. For more professional use, spot colour separations are not yet implemented, and neither is plate control, but support for the Fargo Primera Pro has been finalised.

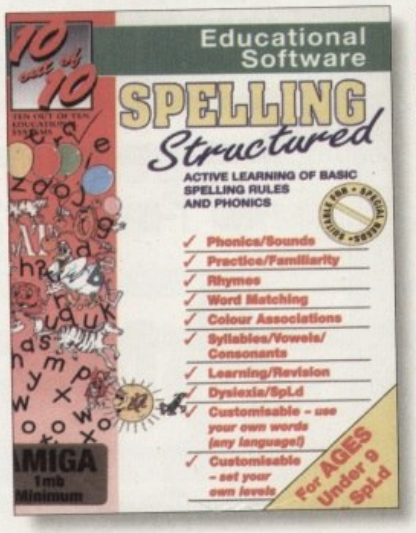
Altogether there are some 230-odd lines of improvements made to the previous version, and the list of features that have not been implemented just keeps shrinking. SoftLogik have also announced new Import/Export modules for JPEG and Wordworth documents, but, surprisingly, the fact that these are not going to be included with PageStream and represent an extra expense ($20 each) to be incurred by the hapless PageStream user has raised more than a few eyebrows and has caused some rather uncomplimentary e-mail to flow SoftLogik's way.

Save £6 on RRP!!

Fantastic Reader Offer!!!

10 out of 10

Driving Test and Structured Spelling only £19.95 each!



Together with those marvellous people from 10 Out Of 10 Software, Amiga Computing offers you Driving Test and Structured Spelling both at the amazing price of only £19.95 each!

Driving Test is packed full of amazing features to help you learn, or revise, the essential facts of driving.

It includes:

- *Over 2000 questions to test your knowledge*
- *Six challenging and educational games*
- *Comprehensive coverage of signs*
- *How to drive on the Continent*
- *Essential night driving tips*
- *In fact, Driving Test covers every aspect of driving imaginable!!*

Structured Spelling is the teaching package that grows with your child.

It covers:

- *Basic spelling rules using rhyme*
- *Over 1200 basic words*
- *Facility to enter new words to learn*
- *Six unique and educational games*
- *Dyslexia and how to overcome it*
- *Structured Spelling is a fun way to learn all about words in any language!!*

Priority order form

Please rush me:

☐ **Driving Test at only £19.95** ☐ **Structured Spelling at only £19.95**

Deliver to:

Name (Mr/Mrs/Ms/Miss) _____

Address _____

_____

Postcode _____ Daytime phone _____

I wish to pay by:

☐ Cheque/postal order payable to IDG Media

☐ Credit card

Card No. ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ Expiry Date ☐☐/☐☐

Prices include VAT and p&p. Please allow 28 days for delivery.
Both products require an Amiga with 1Mb minimum

☐ *Tick this box if you do not wish to receive promotional material from other companies*

Complete this order form and send to Driving Test Offer, IDG Media, Media House, Adlington Park, Macclesfield SK10 4NP.

Dear Phil...

Phil South looks at some readers' questions about AMOS

I've been asking people to send in Amos queries lately, and sure enough we've had a torrent, especially since we bundled the Easy AMOS program with our magazine. A lot of the problems are easily solvable, such as syntax errors and omissions, but others are a little bit more complex. But let's pull a few out of the bag and see what's going on, shall we?

The first question comes from John Eustace of East Dulwich, who writes: "I have been with Amos a short time now, so I'm writing to say please could you answer this problem I'm having with this simple routine. Here's the routine:

```
Repeat
  For X=1 To 90
    Wait Key
    Print X
    X=Rnd(90)
Until Mouse <> 0
```

or the last line could read:

```
If Mouse=1 Then Exit
```

This is just one way I have tried this routine but without CTRL-C I can't seem to break out of the loop."

Well, for a start you have a FOR without a NEXT in there, and the statement isn't really required. It doesn't refer to a NEXT, and the numbers are randomised by the RND statement further down the program anyway.

Secondly, the command is MOUSE KEY, not just MOUSE. The other problem is with WAIT KEY which prevents the mouse button being trapped, unless of course you hold down the mouse key and press any key to get it working.

A better and more efficient listing would go something like this:

```
Repeat
  Print X
  X=Rnd(90)
Until Mouse Key<>0
```

or perhaps:

```
Repeat
  X=X+1
Until X=90
```

or something similar to that.

Next we have a couple of people who are confused by the listing we gave you for the Easy AMOS tutorial, and it all circles around the line:

```
Palette
$0,$FFF,$FFFF etc.
```

I have no trouble with this line, so I suspect it's a formatting problem. If the program we use to put the magazine together encounters a line with no breaks in it, it breaks it wherever there is a space, so the line should read:

```
Palette $0,$FFF,$FFFF etc.
```

As well as this problem, KH Tjoa of the Netherlands asks: "Please advise me how to change my keyboard set-up in order to allow me to type the # symbol. Also what is the difference between AMOS Pro and Easy AMOS?"

The first question is simple, all you have to type is the # on your keyboard. It may be that you have a European setting on your shell keyboard, which means it will be a different key. If you can't find it, how about the £ symbol? What does that type – look at your copy of Amos? The second question sounds obvious, but in case you haven't noticed, Easy AMOS has fewer commands, and it also has no AMAL.

Next we have Daniel J Green of Coventry who writes: "I am almost going out of my mind with this little problem, the problem being colours. I want a program that ranges colours from $0 to $FFF. I know it must be able to be done so if you can, please print it in the magazine. My previous attempt was:

```
For N=0 To 4096
  Colour N,N
Next N
```

and I though this would work but it doesn't."

Hmm, this is a conceptual problem as much as a coding one. For a start, you normally only have 15 colour indices to choose from, so attempting to load 4096 into them is doomed to failure.

Secondly, even in HAM mode you can only access up to 64 colour using screen indices, which is what you are doing when you use the Colour command. Also, you are using a numeric variable for Colour when the second figure after the comma has to be hexadecimal, for example:

```
Colour 3,$34
```

You can convert Dec to Hex using the Hex$() command, like this:

```
Print Hex$(34)
```

but sadly the hex generated by the command are strings, not figures. Although you can add and subtract hex in AMOS, you can't put a string into an addition. As HAM screens are generally only used as background, you can't really draw on them except in the default 64 colours. That's usually enough and besides, HAM screens are very flickery and fuzzy, so what's the point?

If you want to see an example of what you can do, then look at the following:

```
Screen Open 0,320,256,4096,Lowres
Flash Off : Cls
X=0 : Y=0 : A=0
'
MAIN:
Repeat
   Ink A
   If X>320 Then X=0 : Y=Y+1
   Plot X,Y
   Inc X
   Inc A
Until N=4096
N=0
Goto MAIN
```

I'll be doing a little tutorial on colour in a couple of issues time, so watch out for that. Finally, we have PK Shepherd, who asks: "I've been trying to get a cyclic IFF ANIM to run within a program I've written in AMOS Pro. No matter how I seek to run it, I always get a joggle at the end of each individual cycle. The methods I've been using are:

```
IFF Anim "xxxxxx" To <screen number>,times
```

Daniel Green in Coventry: Apply the example listing given and get this result

and this appears to give a repeat frame at the end of each cycle. Secondly:

```
Frame Load
```

followed by:

```
Frame Play
```

with a DO/LOOP construction as shown in section 07.05.06 of the AMOS Pro Handbook. This gives a blank frame at the end of each cycle, apparently while the LOOP operation is taking place. Is this a bug in my version of AMOS Pro?"

Not a bug as such, just understandable. The animation is buffered and compressed, and if you want the animation to repeat you have to put up with a little joggle at the end. Animation was added to Amos as a bit of an afterthought, and it is really designed to play back an animation from start to finish without much messing about.

Also, bear in mind that the animation will always restart from frame two rather than one, so a lot of the jerkiness might be coming from that quarter. There are supposed to be some ways around this, and I'll look into it for next time.

That's about all we have time for. Let's hear some more of your Amos questions, and we'll see what we can do to sort them out for you. Amos is still the best language to develop software on for the Amiga, and it's going to be a long time before something better comes along. I look forward to hearing from you, and see you next time.

Write stuff

If you have an Amos question, or a routine you'd like to share with the world, then please write to Phil South, Amos Column, Amiga Computing, Media House, Adlington Park, Macclesfield SK10 4NP. Please send routines on an Amiga disk with notes on how the program works on paper. Make the routines short (use these routines as a guide) and make them reasonably independent of any graphics and sound support files, although I will make provision for these if necessary.

As long as your ad is ten words or less, it's absolutely free! Should you want more space, you'll find unrivalled value for money – for instance, 25 words cost just £10. Fill in the form below and send it to us with your payments (if applicable) – and remember to include your telephone number!

Classifieds

◆ Wanted: Quaterback V6.0 or higher with manual. Tel: 01573 2244632.
◆ Amiga CD-ROM, 100 Games, CD. Very good condition. Tel: 01737 362218 after 4 pm.
◆ A500 1Mb, Phillips CM18833 MKII colour monitor, Citizen Swift 24e colour printer, extend disk drive and loads of software. £475 ono. Tel: 0181-451 4885, eves.
◆ A1200 complete 'Power' system, real bargin. Tel: 01443 671087.
◆ A4000 68040 processor card wanted. Tel: 01263 514806 after 5pm.
◆ G.V.P A1230-II 40MHZ F.P.U, with 8 meg, £475. Tel: Duncan 01376 501994.
◆ Swap Atari STE 105 meg hardrive for Simular A1200. Tel: 01438 721215.
◆ Wanted: A500 power supply. Tel: 01235 521931.
◆ A600 2Mb, clock, games, joystick, mouse, magazines. £150. Tel: 01224 311434.
◆ PD from 45p, send SAE. 91 Thongsley, Huntingdon, Cambs PE18 7NT.
◆ Wanted: DiskMag articles. Contact Billy Murphy, 25F Pine Crescent, Johnstone PA5 OBX.
◆ Graphics Tablet 12X12 Puck/Stylus and Software, £50. Tel: Gary 00149 5722 or 5953.
◆ Wanted: SCSI 2 Interface for A4000. Tel: 01263 722169.
◆ Original Amiga Games, Write to: 11 Gorrie Street, Dunfermline, Fife KY11 4BA.
◆ Cumana disk drive, £35. Midi, £15. Modulator, £9. Tel: 0181-810 4049.
◆ The War Horse BBS: 01472 280018 – 24 hrs.
◆ Imagine User Group. For more info call Spencer on 01375 670036.
◆ Amiga contacts! Phone Geoff, 01926 409504 for more details.
◆ Rendale high-quality Genlock S-VHS/VHS £499 for £299. Tel: 01271 870549.
◆ Aero Chopper Radio Control Simulator. Hardly Used, £95 ono. Tel: 01282 870574.
◆ Wanted: New members and Amiga contacts: Probably most Innovative Development group. Contact Malvin Wall, Yellow and Blue Room, Camfield, Langley Lane, Crawley RH11 ONB. (SAE).
◆ Wanted: SCSI or Zorro Interface for 500+, can build. Tel: 01422-346237.
◆ MBX 1200z 4Mb 20Mhz FPU, £100. Tel: 0181-981 4643.
◆ Pagestream 2.2 wanted. Good condition. Tel: 01656 870598.
◆ Info. Line. Terry; 8 Fleming Gardens. Tilbury, Essex RM18 8JR.
◆ Surra Turbo 28MHZ A500/+ Accelerator 4X speed! £80. Tel: 0181-482 9428.
◆ The NB-5 BBS upto 28.8K 24HrS. Tel: 01924 491461. Amiga only.
◆ Terminator 2 unused, £6. Fun School2. <5-78 3 discs, £5. Pen Pal, £12. Tel: 01603 628178.
◆ Wanted Amiga books – programming and reference. Tel: Alex 01349 882021.
◆ Contacts wanted for new club. Contact Terry, 8 Fleming Gardens RM18 8JR.
◆ Contacts to swap demos. One to One basis. Tel: 01705 455905.
◆ Contacts wanted, 317a Dersingham Avenue, Manor Park, London E12 6JX.
◆ Amiga contacts wanted. Keron, 76 Crystal Palace Park Road, London SE26 6UN.
◆ Lightwave 3D V3.5 Brand new, unopened, £400 ono. Tel: 0181-767 2763.
◆ A600 system, CBM-1701 colour monitor, £99 each! As new. Tel: 01329 826431.
◆ Free diskzine to anyone who sends in programs for inclusion. Contact Alec Carswell, 16 Montgomery Avenue, Beith, Ayrshire KA15 1EL.
◆ A1200 contacts wanted. Craig, 119 Stone Cliff Park, Welton, Lincoln LN2 3LL.
◆ Amstrad CPC464 printer wanted. Tel: 01778 341075. Robert.
◆ 210Mb, 2.5" HD western digital, £80. Tel: 00149 5722 5953.
◆ A1200 420Mb hard disk, 6Mb RAM, 28MHz accelerator, clock, FPU, 2nd drive, multisync monitor, midi interface software, £850 ono (will split). Tel: 01956 804199.
◆ A500 1Mb colour stereo monitor, second drive, 2 joysticks, lots of software, £250. Tel: 01442 825370.
◆ CDTV & keyboard wanted, Good price paid. Tel: 0181-576 0422.
◆ Boxed original games for A1200 – Civilization, Sub War 2050, FOG, Cannon Fodder to name but a few. Tel: 0113 2394604.
◆ Old, old game wanted – Grand National (A500). Tel: 0181-984 8647.

Order form

Name _____

Address _____

Postcode _____ Telephone _____

					FREE
					£6
					£10

Cheques should be made payable to " Amiga Computing"

Please include my advertisement in the next available issue of *Amiga Computing*. I confirm that the advert is not selling illegal copies of software or hardware that do not belong to me. I permit you to publish my address/telephone number only if I have included these details within my advertisement copy. I am over 18 years of age (applicants under 18 must get a parent or guardian to sign below).

Signed .....

Send to: **AMC Classifieds, Media House, Adlington Park, Macclesfield SK10 4NP**

Remember to include your phone number/address in the advert as well as on the form!

FAST AMIGA REPAIRS

FAULTY TROUBLESOME COMPUTER??

SEND OR DELIVER TO THE EXPERTS FOR FAST RELIABLE REPAIR OF YOUR BELOVED AMIGA 500

ONLY £44.00 INC,*

DRIVE OR KEYBOARD REPLACEMENT + £10

WE ALSO REPAIR TO COMPONENT LEVEL A600, 1200, 1500, 2000, 3000 + 4000 ★ FREE QUOTATION ★

FREE GIFT WITH EVERY REPAIR PLEASE TICK BOX

- MOUSE MAT ❑
- MOUSE HOLDER ❑
- DISK CLEANING KIT ❑
- ADD £5 REPLACE MOUSE ❑
- ADD £5 JOYSTICK SEGA STYLE ❑

BARGAIN HARDWARE Fitted 85/500 Mb.....Call

EXCHANGE SERVICE

MODULATORS	£19.50
PSU	£19.50
DISK DRIVES	£25.50
KEYBOARDS	£25.50

* COLLECTION AVAILABLE ANYWHERE IN THE UK.

144 TANNER STREET, TOWER BRIDGE, LONDON SE1 2HG. TEL: 0171 252 3553

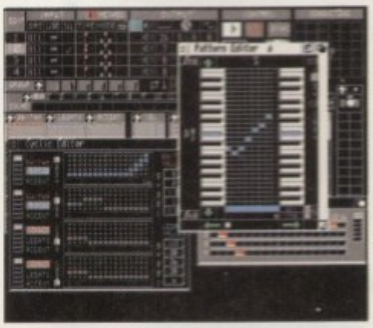
M for music

Dr T's M program has been around on other platforms for quite a while but since most Amiga users are unlikely to have seen it, a few words about what M is and how it works are clearly in order. Basically, it's a music composition and performing system which allows you to record and modify sequences and riffs in a variety of ways. While M can be used to create and modify complete arrangements, it is not an auto-arranger program as such, rather a composition aid that encourages you to experiment.

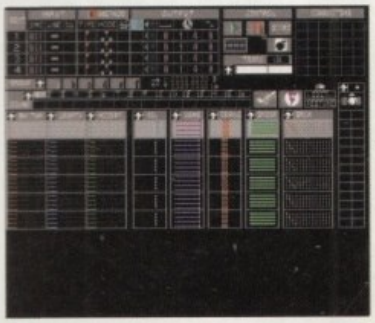
Display-wise, as you might expect, M includes a fair number of gadgets – arrow buttons can be rotated, numerical gadgets can be drag-selected to take on particular values, range bars, clever pop-sidewards gadget menus and many other features. To make life easier for the user, the main screen control types have been split into separate areas for input operations, general control functions (stop/start, tempo setting etc.), variable settings, playback conducting and so on. There's even an area which allows you to store and retrieve 'snapshots' of selected groups of other screen controls, the idea here being that by executing these snapshots during playback it's possible to move from one control set up to another.

M's use revolves around three basic stages, with you first recording or importing the note and chord material to be used. Four 'players', which in essence can be regarded as four individual sequencer tracks, are available so you might, for example, start by playing a melody line using player 1 and then add some backing chords for player 2.

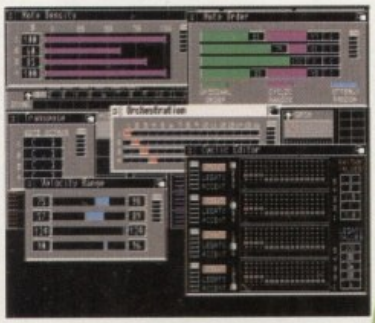
Having done that you are able to control the ways in which that material is going to be transformed during playback. All manner of changes can be experimented with – a melody line might be scrambled, or M might be asked to produce cyclic or random variations to the base material. Because M has settings which allow you to add any amount (from 0 to 100 per cent) of cyclic and random variations, this means results can be obtained that are as near, or as far away, from your original riff as you choose. Needless to say, it's necessary to be sensible with such settings since high levels of random change, for example, may not always produce good results.



M's pattern editor provides a gateway for using the program without Midi!



The main display page of Dr T's M program.



Dr T's M makes good use of the Amiga's multi-window facilities.

REVERSE EFFECT

The important thing about the approach M uses, however, is its reversibility – you can try a setting and if you don't like the results you just reduce or change it to hear a new effect. Incidentally, you can use M to control Midi drum machines as well, and the program provides special modes for this type of use.

There are also various ways of performing your music. You can manipulate M's screen gadgets, move the mouse within a two-dimensional 'conductor' grid or create automatic performance processes. Another control facility offered by M is based around the use of a Midi keyboard, where certain keys are defined as 'control keys' which duplicate many of the functions found within the program's main display.

In essence, having recorded your sequence material, M can then be used to change tempos, key, velocity, duration, note accents and so on. You can reverse melody lines and even do things such as adjusting the 'note density,' thereby allowing M to make choices about which notes from a pattern should sound. There are, in fact, a whole collection of editing functions to choose from and you can, of course, use both Midi and internal sounds and even write M's musical output to disk in standard Midi file form.

M's editing and control features are quite easy to use, particularly since most of the edit functions operate from separate windows. The Orchestration window, for example, lets you send the output of particular players to any chosen Midi channel, while the Pattern editor window lets you view and edit the notes stored in a player sequence.

Midi files can be imported as well and I found this to be a good way of bringing raw base material into the M environment. Although most M users will probably be Midi users, it's worth pointing out that you don't actually need a Midi synth in order to be able to use M on an Amiga. This is because sequences can be created using the pattern editor and subsequently used with M's AmiSynth internal IFF sounds module.

Dr T's 'M' package has recently made its debut on the Amiga and Paul Overaa has taken a look to see what's on offer

First impressions

The Amiga version of M has been reasonably well implemented, although there are some things, such as the use of a very old fashioned file requester, that surprised me. The program certainly has the ability to perform musically interesting pattern changes (effectively creating new riffs and food for thought as it does so), but it is important to realise that it is necessary to spend a fair bit of time getting to know the program in order to get the best out of it. Needless to say, the Dr T documentation is excellent as always and there's plenty of tutorial material to get you started.

On a personal level, I've been quite impressed with this new Amiga Dr T offering, and it has certainly been good fun to use. I do, however, have some general 'conceptual worries' about the program and, at the moment at least, my 'gut feeling' is that this is simply not the sort of music program that will find instant favour among all Amiga musicians. To be honest I hope I'm wrong but on that score only time will tell!

SYSTEM ESSENTIALS

RED = Essential **BLACK** = Recommended

1 Mb

RAM

The bottom line

Product: Dr T's M
Supplier: Millenium Music
Price: £79.95
Tel: 01602 241924

Ease of use	**8**
Implementation	**8**
Value for money	**8**
Overall	**8**

CTR COMPUTER PRODUCTS

(Dept 8)
32 Staffords Acre
Kegworth, Derby DE74 2HY
Tel: 01509 670706
Fax: 01509 674703

3.5" DISKS

All disks certified 100% Error free with FREE labels

	DS/DD	DS/HD
10 Disks	£4	£6
25 Disks	£9	£11
50 Disks	£17	£20
100 Disks	£30	£36
250 Disks	£70	£85

All HD Disks are preformatted

LOCKABLE 3.5" DISK BOXES
100 Capacity £5.99 50 Capacity £4.99

Miscellaneous items

100 Single Colour 3.5" Disk Labels	£1.99
1000 Single Colour 3.5" Disks Labels	£8.99
Mouse House	£2.99
Mouse Mat 6mm	£2.99
Mouse Mat 8mm	£3.99
3.5" Disk Cleaning Kit	£2.99
14"/15" Optical Glass Screen Filter	£16.99
2pc Universal Printer Stand	£5.99
Monitor Dust Cover	£4.99
CPU & Monitor Dust Cover	£6.49
80 Column Printer Dust Cover	£3.99
Amiga 500/600 Dust Cover	£3.99
Amiga 1200 Dust Cover	£3.99
Mini Stereo Speakers	£5.99
2000 Sheets 11" x 9.25" 60g 1 box	£24.99
Micro perforated list paper 2+ boxes	£19.99
500 Sheets 7163 Laser labels	£104.54
Parallel Printer Cable (1.8m)	£3.99

All cables available – ring for best prices

Amiga Joysticks

Quickshot Apache 1	£6.89
Quickshot Maverick 1M	£12.49
Quickshot Python 1M	£8.89

Mice

Amiga/Atari ST Mouse	£11.99

Trackballs

Amiga Trackball	£23.99

LOWEST PRICES ON QUICKSHOT JOYSTICKS

Inkjets, Ink Refills & Toners

Canon BJ 10/20 Cartridge	£17.54 each
Commodore MPS1270 Cartridge	£12.13 each
HP Deskjet Cartridge (Double Cap.)	£24.24 each
HP Deskjet Tri-Colour Cartridge	£28.89 each
HP Thinkjet/Quietjet Cartridge	£12.13 each
HP Deskjet Tri-Colour Cartridge Refill	£16.00 each

Inkjet Refills (twin packs) for Canon BJ-10/20. BJ300 HP Deskjet etc.
Available in Black, Cyan, Magenta, Yellow, Red, Blue, Brown, Light Green, Dark Green and Gold.
1 Pack £11.00, 2+ Packs £10.60 each, 5+ Packs £9.95 each

HP Laserjet II/III Toner Cartridge	£44.51
HP Laserjet IIP/IIIP Toner Cartridge	£53.41

Ring for Inkjets & Toners not listed

QUALITY PRODUCTS AT THE VERY LOWEST PRICES

Printer Ribbons

BLACK	1 Off	2+	5+	10+
Amstrad DMP 2000/3000	2.80	2.65	2.45	2.25
Citizen 1200/LSP10/Swift24.9	2.85	2.70	2.50	2.30
Epson LQ100	4.10	3.95	3.75	3.55
Epson FX/MX/RX80/FX/LX800	2.90	2.75	2.55	2.35
Epson LX80/86/90	2.12	1.97	1.77	1.67
Panasonic KXP1123/1124/1140	3.46	3.31	3.11	2.91
Panasonic KXP1080/1180/90/1592	2.89	2.74	2.54	2.34
Panasonic KXP2123/2180	5.75	5.60	5.40	5.20
Star LC10/20/100	2.29	2.14	1.94	1.84
Star LC24-10/200	2.86	2.71	2.51	2.31
COLOUR				
Citizen Swift 24	12.81	12.66	12.46	12.06
Panasonic KXP2123/2180	10.63	10.48	10.28	9.88
Star LC10/20/100	6.00	5.85	5.65	5.25
Star LC200	9.78	9.63	9.43	9.03
Star LC24-10/200	9.63	9.48	9.28	8.88

RING FOR RIBBONS NOT LISTED
Telephone your order today or post with payment to the above address

REMEMBER, UNLIKE SOME OTHER COMPANIES – ALL OUR PRICES INCLUDE VAT (@17.5%) & UK DELIVERY

AMIGA COMPUTING

ADVERTISERS' INDEX

17 Bit Software	62
1st Computer Centre	11
Arnold Computer Supp	110
Better Concepts Inc	48
Big Byte PD	110
Blittersoft	82
Brian Fowler Computers	47
Bruce Smith Books	110
Capri CD Distributor	110
Care Electronics	120
Centrol Software & Hardware	110
Compo Software	128, 129
CTR Computer Concepts	126
Cybersystems	109
Dart Computer Services	48
EM Computergraphics	120
Epic Marketing	55, 104, 105
Fast Computer Services	124
France Festival Distribution	48
G.T.I.	56
Gasteiner	56, 58
Gordon Harwood Comp	9, 15
GreyTronics	22
Hagars Electronics	110
Hi Soft	6, OBC
HIQ	76
ICPUG	110
Indi	IFC, 3
Kew = II	110
Kompart UK	87
Marcam	126
Meridian	13
Microvitec	38
On-Line PD	110
Optonica	97
Owl Associates	109
PD Power	110
PD Soft	28, 29
Power Computing	IBC, 130, 20, 21
Premier Mail Order	116
Saddletramps PD	110
Seasoft Computing	68, 69
Siren Software	35
Software 2000	92, 93
Special Reserve	32
The Amiga User Club	110
Underground PD	69
Village Tronics	51
Visage Computers	40
Weird Science	72
Whiteknight Technology	79
Zone 1	109

RENDALE GENLOCKS

DIRECT FROM THE MANUFACTURER

All our Genlocks feature:

- Fade Amiga graphics
- Crossfade between Amiga & Video
- Amiga preview monitor facility
- Amiga only, video only, overlay and keyhole modes
- Full instruction manual
- Designed and manufactured in the UK

PRICES:

Composite standard video Genlock:
Rendale 8802 FMC Genlock **£149.00**
Super-VHS Genlock:
Rendale 9402 ..... **£299.00**
Titling Packages:
Scala HT100 ..... **£49.00**
Chroma DTV Toolkit (Vol.1) **£29.99**
Deduct £5 from total price when ordering a titling package with a genlock
Chromakey device:
RocTec Rockey (fully tested) **£149.00**

Prices include VAT and Delivery

Marcam Ltd, 62 Tenter Road, Moulton Park, Northampton NN3 6AX

Tel: 01604 790466 Fax: 01604 647403

Getting the full picture

Still using the family TV with your Amiga? Gary Whiteley puts the case for buying a dedicated monitor instead

Everyday all across the UK there must be arguments over who gets priority use of the telly. Mum and big sister want to watch Neighbours, while the brothers want to use their Amiga. Dad comes in from work and, once again, finds the same old argument in full swing. Some things never change.

But there can be a solution. In fact, there can be several, dependant on factors such as space, the Amiga itself and, of course, cash. For most folks the last item, cash, will be the crucial one. Serious Amiga users know that it's impossible to do crucial graphics and other quality work on a bog-standard TV, so we simply scrape up the cash and get on with it, but for most cash-strapped families there will inevitably be priorities other than buying a 'proper' monitor for the Amiga.

The simplest, and probably cheapest, fix is a second-hand TV installed in the lad's bedroom so they can blast away to their heart's content. Of course, big sis will kick up a fuss and likely need paying off, but if it keeps the family from rowing, then maybe it's a small price to pay. Suitable TVs can be found by scouring the local free papers and second-hand shops. Just make sure you see them working before you part with any cash!

But a second-hand TV isn't necessarily the best bet if you want to do more than just play games. Why? Well, the long and short of it is that both RF video (which is what goes into the TV's aerial socket) and composite video produce noticeably lower quality than the Amiga's own RGB video output. The reason for this is that internally, the Amiga generates separate red, green and blue (hence 'RGB') signals which can be fed directly to a suitable monitor and displayed on screen with minimum modification, resulting in a high-quality image.

However, both RF and composite video signals have to be converted from the Amiga's RGB signal via a modulator or encoder, which requires that the RGB is first electronically combined together and then passed to the TV, where it is then decoded back to RGB. Inevitably some of the original signal will be lost because of the nature of this coding/decoding process.

The result? RF looks worse than composite video, and both are significantly inferior to RGB, particularly where high resolution screens and small text and graphics are concerned. Colour reproduction can also suffer and, all factors combined, using a TV as a computer display can make using productivity software such as wordprocessors, DTP packages and graphics and animation software quite a strain.

RGB monitors: reproduce the Amiga's own RGB signals as faithfully as possible

Watch out

I have one last, but very important point to make. Always be very careful when buying a second-hand computer monitor. There are so many different kinds around, especially at auctions, that it is easy to buy something which doesn't stand a hope in hell of working with your Amiga. Particularly, don't buy a monochrome or amber monitor (since it won't display in full colour) and ensure that the monitor can display RGB at 15.6kHz PAL frequencies via an analogue RGB input. This last point is very important.

Also, make sure the monitor has a manual or, at the very least, a pin connection diagram for its inputs, since it might be impossible to work this out otherwise. If you can, get a written assurance that your prospective monitor will work with an Amiga and, if it doesn't, try to ensure you can get your money back later. If I had £10 for every reader's letter I'd had about unsuitable second-hand monitors they'd bought on spec I'd be having a nice holiday right now.

ALTERNATIVES

A better solution is to buy an RGB monitor. Sometimes a TV will have RGB inputs and, with a suitable cable (either bought or, if necessary, home-made) will work with an Amiga. Even better is a dedicated RGB monitor such as the Philips 8833 MkII or Commodore's own 1084S models. The trouble is that one of these monitors costs around £220-£230 new, and second-hand ones are getting less common by the month.

The best thing about RGB monitors is that they reproduce the Amiga's own RGB signals as faithfully as possible, giving a crisp, colour-rich display which makes for great graphics and sharpens up all your applications no end, making those parts which were hard to read on a normal TV entirely visible at last.

One thing recent converts from TV to RGB often remark on (as do PC users used to displays of 30kHz or more) is that Amiga displays can appear to flicker, especially at higher resolutions. The short explanation for this is that the Amiga's RGB output is at standard video frequency (15.6kHz) which is what makes it so adaptable as a video machine. Hence, it only refreshes the screen at half the rate at which a standard PC screen is refreshed – and the eye sees the difference as flicker, particularly where highly contrasting thin horizontal lines are displayed.

Most people quickly get used to the flicker but to circumvent it, newer Amigas with the AGA chip set can drive a multiscan monitor (i.e. an RGB monitor which is capable of higher than 15.6kHz displays) such as those produced by Microvitec or other manufacturers. Unfortunately for the feuding family, such a monitor doesn't come cheap so let's leave this train of thought right here.

Contact

Gary Whiteley can be e-mailed as drgaz@cix.compulink.co.uk.

RELEASE THE POWER AN AMIGA COMPUTING

THERE ARE NO PRICE CHANGES DUE TO CURRENT MEMORY SHORTAGES. THESE ARE TODAY'S PRICES AVAILABLE TODAY!

ALL MEMORY BOARDS COME COMPLETE WITH FREE DISK INCLUDING MEMORY TEST SOFTWARE.

A MEMORY UPGRADE WILL UNLOCK THE FULL POTENTIAL OF YOUR AMIGA AND ALLOW YOU TO DISCOVER NEW HORIZONS YOU NEVER NEW EXISTED!

BRING YOUR AMIGA TO US FOR ON-THE-SPOT FREE INSTALLATION

Save on the P&P. Pick up your upgrade and save on delivery charges. What's more, bring your computer with you and we will fit your memory upgrade and test it for free!. Personal callers are very welcome but please phone before visiting to confirm the item you want is in stock. We have disabled access.

THANKS TO THE HUGE BUYING POWER OF AMIGA COMPUTING WE CAN GIVE OUR READERS THE CHEAPEST HIGH QUALITY AMIGA UPGRADES AND OTHER ESSENTIAL ACCESSORIES FOR YOUR AMIGA.

MOUSE

£7.99

A superb replacement Amiga mouse.

This Compo mouse is a major enhancement because it uses micro switches for the buttons. Our mouse also has a much higher resolution - 280 dots per inch which means you need much less desk space and you get a much finer control.

12 GOOD REASONS TO BUY FROM AMIGA COMPUTING

All the products offered have been carefully selected by us as being the best in their class. But top quality does not mean top price. Thanks to our huge buying power, we can deliver to our readers the best products at the best prices.

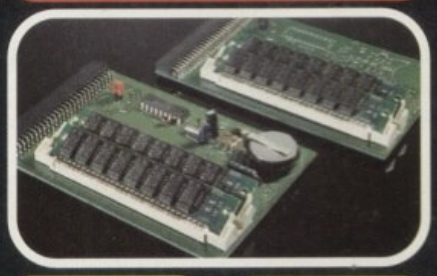
1. All memory boards are populated with memory.
2. All memory boards are individually tested.
3. Support from a top engineer is just a phone call away.
4. All memory upgrades are simple to fit, trap door upgrades - no soldering and no need to open your Amiga's case.
5. No minimum order and no credit card surcharges.
6. Memory upgrades carry a five year warranty.
7. 28 day no-quibble money back guarantee.
8. We are here until 8pm every day during the week.
9. 24 hour order hotline.
10. Because we only sell a few items, your order will normally be supplied straight from our stocks.
11. Your credit or debit card will not be processed if the item you order is not in stock.
12. Experienced sales staff are on hand for when you order or if you need advice before placing an order.

TURBO DELIVERY

NEXT DAY DESPATCH AVAILABLE FOR ORDERS PLACED BY TELEPHONE ONLY.
POSTAGE AND PACKING FOR TURBO DESPATCH IS £5

OF YOUR AMIGA WITH MEMORY UPGRADE!

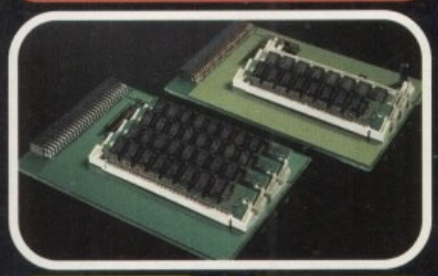
AMIGA A500



Upgrade to 1Mb **£12.99**

Upgrade inc.Clock **£17.99**

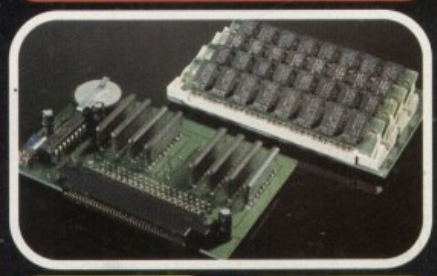
AMIGA A500+



Upgrade to 1.5Mb **£13.99**

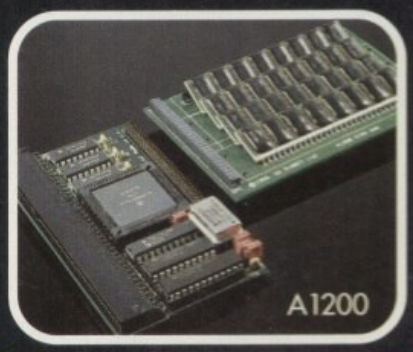
Upgrade to 2Mb **£20.99**

AMIGA A600



Upgrade to 2Mb **£22.99**

Upgrade inc.Clock **£27.99**



AMIGA A1200

Our A1200 upgrades come complete with clock and optional 25Mhz maths coprocessor. They fit in the trap door and feature full 32bit Fast Ram.

Upgrade to 4Mb **£129.00**

Upgrade inc. Math **£154.00**

Upgrade to 6Mb **£189.00**

Upgrade inc. Math **£214.00**

ORDER HOTLINE

01487 773582

Lines are manned from **Monday to Friday 10am to 8pm** and on **Saturday 10am to 4pm.**

If you call outside these hours you can place an order by answer phone - just give the information on the order form in the order it appears. You might find it easier to complete the order form before calling so that you can read directly from it.

Please allow 28 days for delivery from when we receive your order. For non receipt of goods phone 01487 773582 Monday to Friday between 10am and 6pm.

COMPO

AMIGA COMPUTING SPECIAL OFFERS
COMPO SOFTWARE LTD.
UNIT 3, GREEN FARM, ABBOTTS RIPTON,
HUNTINGDON, CAMBS PE17 2PF

PRIORITY ORDER FORM

Order by telephone by calling **01487 773582 Mon to Fri 10am to 8pm / Sat 10am to 4pm.**

1. ORDER ITEMS (✓)

❑ Mouse	£7.99
❑ A500 upgrade to 1Mb	£12.99
❑ A500 upgrade to 1Mb inc.clock	£17.99
❑ A500+ upgrade to 1.5Mb	£13.99
❑ A500+ upgrade to 2Mb	£20.99
❑ A600 upgrade to 2Mb	£22.99
❑ A600 upgrade to 2Mb inc.clock	£27.99
❑ A1200 upgrade to 4Mb	£129.00
❑ A1200 upgrade to 4Mb (Copro)	£154.00
❑ A1200 upgrade to 6Mb	£189.00
❑ A1200 upgrade to 6Mb (Copro)	£214.00
❑ A1200 CoProcessor only	£27.00

TOTAL GOODS VALUE		
P&P (1 Item = £2.00 2 or more Items = £3.00)		
TOTAL ORDER VALUE		

Cheques Payable to Compo Software

Please send to: Amiga Computing Special Offers. Compo Software Ltd. Unit 3, Green Farm, Abotts Ripton, Huntingdon, Cambs PE17 2PF

2. DELIVERY DETAILS

Delivery Address_____

Postcode_____

3. CUSTOMER DETAILS

Name_____
(This should be the name written on the Cheque or Credit Card if payment by this method).

Telephone No: (_____) _____

4. PAYMENT DETAILS (✓)

Credit Card

VISA | Access | Switch | Delta | Connect

(✓) ❑ ❑ ❑ ❑ ❑

Card Number

Switch Issue No_____

Expiry Date ____/____/____

Signature _____

Cheque (4) ❑ Postal Order (4) ❑

Cheques Payable to Compo Software

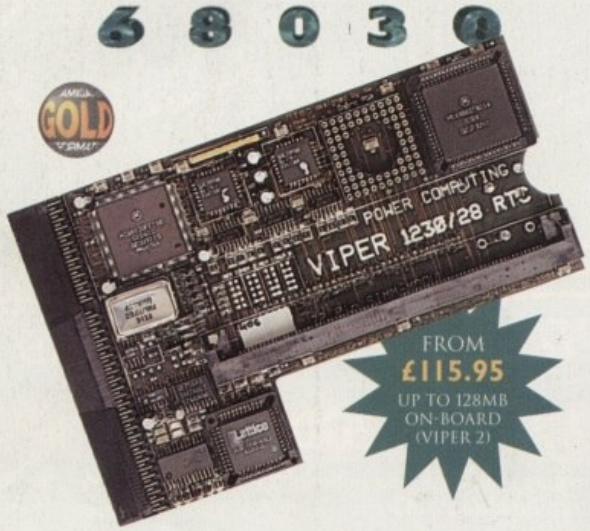
Next Day **£5.00**
2-3 Days **£2.50** Saturday **£10.00**
Deliveries are subject to stock availability
Allow up to 7 days for cheques to clear

POWER

TELEPHONE **01234 273000**

POWER COMPUTING LTD
44a/b Stanley St. Bedford MK41 7RW
Tel **01234 273000** Fax **01234 35220**

VIPER 6030



VIPER 68030 SERIES

- RAM Up to 8MB (Viper 1)/128MB (Viper 2)
- Full Kickstart Remapping
- Optional SCSI-II adaptor
- On-board battery backed clock/68882 Co-processor
- Instruction and data burst modes

Viper -1 28MHz	Viper -1 33-42MHz
PGA/PLCC, FPU upto 50MHz	PGA/PLCC, FPU upto 50MHz
Bare Board ...£115.95	Bare Board ...£169.95
4MB Viper £249.95	4MB Viper £299.95
8MB Viper £399.95	8MB Viper £439.95

Viper -2 28MHz	Viper -2 40MHz EC
PLCC only, FPU upto 40MHz	PLCC only, FPU upto 40MHz
Bare Board ...£135.95	Bare Board ...£199.95
4MB Viper £269.95	4MB Viper £329.95
8MB Viper £419.95	8MB Viper £469.95

Viper Co-processors	Viper Options
28MHz FPU £25	SCSI-II Adaptor £79
33MHz FPU £50	4MB SIMM £139
40MHz FPU £70	8MB SIMM £299
50MHz FPU (PGA) .£100	Other SIMMS ....£POA

Complete with Crystal, Blizzard Board compatible

VIPER 68030

68030 40MHz RC or 50MHz RC with MMU, RAM upto 128MB, FPU-PGA only.

Bare 40MHz £229.00
40MHz-4MB £379.00
40MHz-8MB £499.00

Bare 50MHz £249.00
50MHz-4MB £399.00

POWER 1208

- A1200 RAM board
- PCMCIA friendly
- Uses 1 x 32 SIMM
- Amiga Format Gold award
- Expand upto 8MB

2MB £139.00
4MB £189.00
8MB £329.00

NEW

SUPER/XL DRIVES

The Super XL Drive allows you to store 3.5MB on a high density disk.

EXT. SUPER XL £129.95

The XL Drive allows you to store 1.76MB on a high density disk. No case cutting on A4000 internal.

EXTERNAL XL £59.95
INTERNAL XL £55.95
A4000 INTERNAL XL ..£55.95

£49.95 INC. FLOPPY EXPANDER

POWER DRIVE

The Power Drive now includes Blitz Amiga and Floppy Expander, free. Floppy Expander allows you to compress files on floppy disks by up to 50%. Other features include: Anti-Click, Anti-Virus, Isolation Switch, 2 Year Warranty, Thru'port, Cyclone Compatible Chip, Backup Hardware and Blitz Compatible feature.

EXTERNAL £49.95
CYCLONE S/W ONLY ..£10.00

£30.95 A500 INTERNAL

INTERNAL DRIVES

Our internal drives use the same drive mechanisms as the Amiga to ensure complete compatibility.

PC881 A500 .....£30.95
PC882 A2000 .....£30.95
PC883 A600/1200 .....£35.95

All products have a 12 month warranty unless otherwise specified
Trade and Educational orders welcome - Worldwide distribution available

All prices include VAT. Specifications and prices are subject to change without notice, all trademarks are acknowledged. All orders in writing or by telephone will be accepted only subject to our terms and conditions of trade, copies of which are available free of charge on request.

TD
7RW
52207

Next Day **£5.00**
2-3 Days **£2.50** Saturday **£10.00**
Deliveries are subject to stock availability
Allow up to 7 days for cheques to clear

POWER

TELEPHONE **01234 273000**

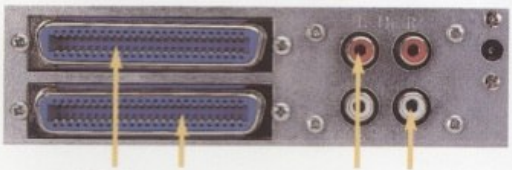
POWER COMPUTING LTD
44a/b Stanley St. Bedford MK41 7RW
Tel **01234 273000** Fax **01234 352207**

CD-ROM

NEW
CD-ROM
INC. CD32
EMULATION

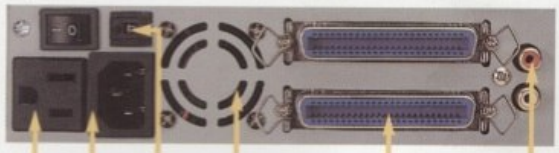
£199
x2 CD-ROM

DOUBLE SPEED CD ROM



£299
x4 CD-ROM

QUAD SPEED CD ROM



POWER CD-ROM

The new Power CD-ROM for the Amiga 600/1200 plugs directly into the PCMCIA port and provides a direct SCSI-I and SCSI-II interface, allowing up to six additional peripherals to be connected, for example: Syquest Drives, Hard Drives, Flatbed Scanners and Dat Drives. What's more the Power CD-ROM features a 'Hot-Plug' and 'Un-Plug', which allows you to connect/disconnect at any time the Power CD-ROM and any additional devices, even when your Amiga is switched on.

The CD-ROM comes with a SCSI interface, PSU, manual, audio lead, mains lead* and software: Audio CD, CD32 Emulation, MPEG Film Decoder and PhotoCD software.

Amiga 600/1200

Double - Speed CD-ROM £199

Quad - Speed CD-ROM £299

Amiga 4000 No SCSI Interface

Double - Speed CD-ROM £159

Quad - Speed CD-ROM £259

CD-ROM SOFTWARE

CDBOOT 1.0 ..... **£29**
Enables you use almost any CD32 games

FRESHFONTS II **£17**
632MB of fonts for almost any computer system

GAMERS' DELIGHT **£25**
Contains 40 games for the Amiga

GOLDFISH 2 ..... **£25**
Volume 2 of the Goldfish series, contains a selection of software

LIGHT ROM **£39**
Contains almost 650MB of 3D objects, images etc.

MAGIC ILLUSIONS **£10**
3D stereograms on your screen!

MEETING PEARLS VOL I **£10**
First CD published with the concept of "sharecompilation"

MEETING PEARLS VOL II **£10**
Contains 650MB of the finest FD software via a special user interface

THE LIGHT WORKS **£34**
Raytracing - a fascinating area of computer graphics

THE BEAUTY OF CHAOS **£12**
Drive into the fractal world of geometry

AMINET 5 ..... **£12**
1.1 gigabytes of software

AMINET SET I **£25**
4 CD's containing freeware

CD-WRITE **£39**
Enables you to virtually write to CD's

FRESH FISH 8 ..... **£25**
Hundreds of MB's of freeware

Accessories

Amiga 4000 SCSI-Interface .£129

Multi-media Speakers 80 Watt £54

*U.K. only

Trade and Educational orders welcome - Worldwide distribution available

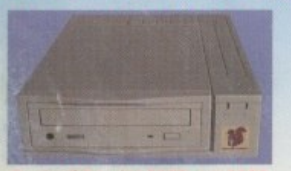
All prices include VAT. Specifications and prices are subject to change without notice, all trademarks are acknowledged. All orders in writing or by telephone will be accepted only subject to our terms and conditions of trade, copies of which are available free of charge on request.

NICE ONE SQUIRREL!

Amiga Format 93% **CU Amiga 94%**
Amiga Shopper 95% **JAM** *"The best piece of hardware I've ever bought for my A1200 ... well done, HiSoft!"*

As you can see, the Amiga press has gone nuts over our new Squirrel SCSI interface for the A600/A1200. In case you've missed these reviews, the Squirrel SCSI is a plug-and-play add-on that allows you to connect up to 7 SCSI peripherals to your Amiga. Just think of it, CD-ROM, Hard drive, Scanner, DAT, Optical, SyQuest, Tape Streamer - all on line at the same time! No wonder we named it after that famous storage-hungry animal! To go with Squirrel, here are some great value devices...

SCSI CD-ROM Drives



Squirrel 2x - int £129, ext £189
New! Squirrel 4x - int £199, ext £259

Introducing our brand-new quad-speed CD-ROM drive, the Squirrel 4x; a feature-packed, lightning-fast drive at a stunning price. This is the flagship of our range of CD-ROM drives, all designed to suit your needs and your pocket.

Squirrel CD-ROM drives are cased in extremely stylish enclosures with all SCSI connectors and offer fast access times, stereo headphone sockets with volume control, phono line output, PhotoCD™ multi-session support, CD32 emulation (with the Squirrel SCSI interface), CD-DA compatibility with the convenience of tray-loaded action. The Squirrel 2x CD-ROM drive offers 300Kb/sec transfer while the Squirrel 4x attains 600Kb/sec (sustained) with a 190ms access time, the fastest CD-ROM yet on the Amiga.

These are the drives we use for developing and testing the Squirrel hardware and software - need we say more?

SyQuest Drives

88Mb - int £269, ext £329
270Mb - int £419, ext £479

Introducing removable SCSI drives for your Amiga. Based on reliable, proven SyQuest™ mechanisms, these 88Mb and 270Mb units offer transportable, compact, high performance and, above all, expandable storage for all your computing needs. SyQuest is the world leader in this technology across computer platforms which means that you can transfer work between Amiga, Macintosh™ and PC, with ease. We recommend the CrossDOS and CrossMac software packages to simplify portability - *call for pricing*. Our drive prices include 1 free cartridge.

SCSI Hard Drives

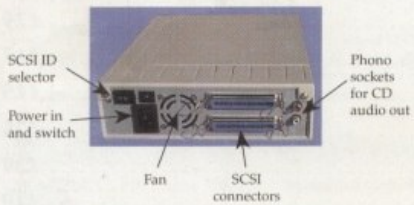
270Mb £169, 540Mb £239
730Mb £279, 1Gb £479
Add £60 for external units

Hard drives are becoming more and more affordable and we can now offer some tremendous prices on a range of superb quality, Quantum drives in a range of capacities.

These drives offer fast seek times (14ms @ 270Mb, 11ms @ 540/730Mb, 9ms @ 1Gb), large caches and high speed data transfer rates (1.5Mb/sec with Squirrel). All units can be supplied for you to fit in your own case or pre-installed in one of our professional Squirrel Storage Cases. The Squirrel does not auto-boot external hard disks but you can do this from floppy or from internal IDE hard disk.

We can supply all leads, terminators etc. Please feel free to discuss your exact requirements with our friendly, technical staff.

Squirrel Storage Systems



All our Squirrel Storage Systems come either bare (*int* - ready for installation internally within a suitably-equipped Amiga or other computer) or fully-cased (*ext*) with integral power supply, SCSI in/out, SCSI ID selector and audio out (for CD-ROM). The cases we supply are high quality, shielded, snap-together enclosures, each with 40W power supply - the back panelof the 5.25" case is shown above. These SCSI enclosures are available at **£69.95** each (please specify 3.5" or 5.25" when ordering).

The neat Squirrel SCSI interface is shown on the right. The unit simply plugs into the PCMCIA slot, comes complete with all the software you need together with a cable which terminates in a 50-way Amphenol plug to attach to your first SCSI device.

the Squirrel SCSI interface

Twist 2

Twist 2 is the new, friendly, relational database for all Amigas. Twist's range of power features such as its integrated forms designer, its varied & multi-level querying, its N:1 1:N & N:M relations coupled with its un-cluttered, well-designed user interface make it ideal for both the first-time and the seasoned database user.

Twist 2 is the only database you will ever need - a product that expands to meet your requirements as they grow. So, before you buy another database, why not take a look at the Twist demo disk?

AURA

The latest of our highly acclaimed sound samplers for the A600/A1200, Aura offers high performance 12/16 bit quality with direct-to-disk sampling plus a host of software features. Octamed 5.04 up compatible.

96% Amiga Shopper 90% AUI

GAMESMITH

Professional game development is made easy with the new GameSmith Development System. Over 3 years in the making, GDS gives you the low level power to create the masterpiece of your dreams in a single, easy-to-use, comprehensive environment, using C or assembler. Comes complete with junior versions of Dice C and Devpac 3.

90% AUI 92% CU Amiga

Termite

Afraid of becoming a hedgehog on the Information Super Highway? Don't worry, Termite is so easy to use that even a first time user will feel at home. Yet it has all the power and flexibility to satisfy the most seasoned modem warrior!

Termite is packed with features and comes with its superb Button Bar already set up for instant access to CIX and many BBSs.

88% Amiga Computing
95% AUI 88% CU Amiga

Ordering Information

All HiSoft products (see the complete list below) should be available through your favourite Amiga dealer. If you have difficulty in obtaining any title you can order directly from HiSoft - just call us free on 0500 223660, armed with your credit or debit card; we will normally despatch within 4 working days or, for an extra £6, by guaranteed next day delivery (for goods in stock). Alternatively, you can send us a cheque or postal orders. All prices include VAT. Export orders: call or fax to confirm pricing and postage costs. © 1995 HiSoft. E&OE.

HiSoft products for your Amiga: Squirrel SCSI interface - £69.95, Squirrel Storage Systems - as above, Aura 12/16 bit sampler - £99.95, Megalosound 8 bit sampler - £34.95, ProMidi interface - £24.95, HiSoft Devpac 3.14 - £79.95, HiSoft BASIC 2 - £79.95, HighSpeed Pascal - £99.95, Gamesmith - £99.95, Termite - £39.95, Twist 2 database - £99.95, Maxon Magic - £29.95, Upper Disk Tools - £14.95, VistaLite inc MakePath/TerraForm - £39.95 and much more. **Coming soon: DiskMagic** (disk tools) **and Cinema4D.**

HiSoft SYSTEMS
The Old School, Greenfield,
Bedford MK45 5DE UK
Tel: +44 (0) 1525 718181
Fax: +44 (0) 1525 713716