Issue 91 ■ October ■ 1995 ■ £3.99 Overseas price £4.25 Hfl 18.95

AMIGA COMPUTING

Ultimate address utility!

Fully registered version

Animation

the art of the matter

The quartet at the heart of Amiga creativity

PLUS

- Multimedia future
- Tune Builder
- Doubler A4000
- Speaker roundup
- Scala Mpeg card

October 1995 AMIGA COMPUTING

Requires WB2, hard drive

DFA 2.25

The complete registered version of this feature-packed address program is yours for free!

October 1995 AMIGA COMPUTING

Requires at least WB2.04, 1Mb RAM

EpochVoyager

The Amigas ultimate personal information manager

Shareware titles

PS3M 32 – channel tracker player
Play16 – 16-bit sample player
VirusChecker – latest update
CyberSound – 14-bit Amiga audio
PNG – All new datatypes

IDG MEDIA

9 770959 963077 10

floppy drives

3.5 super xl drive

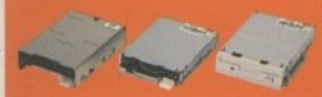
The Super XL Drive allows you to store 3.5MB on a high density disk.

3.5 SUPER XL DRIVE **£129.95**

1.76 xl drive

The XL Drive allows you to store a 1.76MB on a high density disk.

1.76 XL DRIVE EXTERNAL ... **£79.95**
1.76 XL DRIVE INTERNAL **£75**
1.76 XL DRIVE A4000 ..... **£75**
PC880B EXT.POWER DRIVE .. **£49.95**



internal drives

PC881 A500 ..... **£30.95**
PC882 A2000 ..... **£35.95**
PC883 A600/1200 ..... **£35.95**

hard drives

HEWLETT PACKARD

1 GIGABYTE 3.5 SCSI **£459**

MICROPOLIS

2 GIGABYTE 3.5 SCSI **£659**
4 GIGABYTE 3.5 SCSI **£1099**
9 GIGABYTE 3.5 SCSI **£2199**

HITACHI

340MB 2.5 IDE **£189**
510MB 2.5 IDE **£299**
810MB 2.5 IDE **£599**
1 GIGABYTE 2.5 IDE **£719**

OTHERS

80MB 2.5 IDE **£70**
120MB 2.5 IDE **£95**

m-tec hd

External IDE hard disk for the A500 comes complete with an internal ROM switcher, and upgradable to 4MB RAM

M-TEC AT500 BARE **£99**
M-TEC AT500 420MB **£259**
MEMORY REQUIRES 30-PIN SIMMS

floppy expander

Save 1.5MB on a standard floppy drive and 3MB when used in conjunction with the XL Drive 1.76.

FLOPPY EXPANDER **£10**

disk expander

Disk Expander can add upto to 50% to your hard drive capacity and works with all drives including SCSI, IDE, Floppies and even the RAM disk. Disk Expander works on any Amiga with any Kickstart.

DISK EXPANDER **£25**

overdrive hd

External PCMCIA 3.5" IDE hard disk

OVERDRIVE BARE **£99**
OVERDRIVE 420MB **£259**

dat drives

2 TO 4 GIGABYTE **£659**
4 TO 8 GIGABYTE **£899**
2 TO 4 CARTRIDGE DL90 ..... **£12**
4 TO 8 CARTRIDGE DL120 ... **£19.95**

optical drives

128 OPTICAL **£479**
230MB OPTICAL **£719**
1.3 GIGABYTE OPTICAL **£1999**
230MB OPTICAL DISK **£29.95**
1.3 GIGABYTE DISK **£139.95**

external cases

SCSI case suitable for CD-ROM/HD/DAT and Optical drives.

5.25" SCSI or IDE CASE **£79.95**
3.5" SCSI or IDE CASE **£79.95**

zip drive new

ZIP DRIVE 100MB SCSI **£179.95**
100MB DISKETTE **£15.95**
ZIP DRIVE REQUIRES SQUIRREL SCSI INTERFACE

video backup 3

Backup to 520MB onto a 4hr VHS tape. Version 3 has new backup modes for Amiga's with a 68020 or higher CPU.

VIDEO BACKUP SCART **£65**
VIDEO BACKUP PHONO **£60**
UPGRADE TO VERSION 3 ..... **£20**

hisoft

SQUIRREL SCSI INTERFACE ... **£59.95**
AURA **£79.95**
MEGALOSOUND **£29.95**
VIDEOMASTER AGA **£59.95**
VIDEOMASTER AGA RGB **£99.95**
VIDEOMASTER **£52.95**
VIDEOMASTER RGB **£89.95**
COLOURMASTER **£52.95**
PROMIDI INTERFACE **£19.95**

squirrel scsi interface included where you see this logo

chips and spares

256 x 32 SIMM 72-PIN (1MB) **£40**
512 X 32 SIMM 72-PIN (2MB) **£75**
1 X 32 SIMM (4MB) **£139**
2 X 32 SIMM (8MB) **£279**
4 X 32 SIMM (16MB) **£449**
1 X 8 SIMM 32-PIN (1MB) **£30**
4 X 8 SIMM 32-PIN (4MB) **£139**
1 X 4 STATIC COLUMN A3000 .... **£25**
1 X 4 DIP **£25**
256 X 4 DIP **£5**
1 X 1 DIP **£5**
CIA **£12**
GARY **£19**
PAULA **£19**
DENISE **£19**
SUPER DENISE **£25**
KEYBOARD IC **£12**
FAT AGNUS 1MB **£19**
FAT AGNUS 2 MB **£29**
PRINTER CABLE **£6**
RS232 CABLE **£6**
SCSI EXTERNAL **£15**
WORKBENCH 3.1 A500/2000 .... **£85**
WORKBENCH 3.1 A3000/4000 ... **£95**
ROM SHARE DEVICE **£19**
2.04 ROM CHIP **£25**

power scanner

The award winning Power Scanner includes the following features: Scan in 24-bit at upto 200DPI (all Amigas not just AGA)*, Scan in 256 greyscales at up to 400DPI (all Amigas), Thru'port for printer connection, Fully supports AGA chipset, Display HAM8/24-bi images on a non-AGA Amiga (via image conversion), full editing facilities included. Works with 2.04 ROM or above, min 1MB (recommend 2MB).

POWER SCAN 4 B/W **£89.95**
POWER SCAN 4 COLOUR **£169.95**
OCR (BOUGHT WITH SCANNER) ... **£20**
OCR SOFTWARE **£49.95**
POWER SCAN 4 S/W ONLY ... **£20**
PC INTERFACE + COL S/W . **£49.95**
PC INTERFACE + B/W S/W . **£39.95**

flatbed scanners

24-bit colour A4 flatbed scanners, complete with software, cables and manual. (Squirrel included with Paragon flatbed scanner)

EPSON GT-6500 ..... **£539.95**
24-BIT 1200DPI SCANNER
PARAGON 600 ..... **£399.95**
24-BIT 600DPI SCSI SCANNER, INCL. SQUIRREL

amiga 4000

a4000 tower new

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

A4000 TOWER **£349**

octogen scsi-2

SCSI-2 controller card for the Amiga 2000/4000. Upgradable to 8MB RAM.

OCTOGEN 2008 ..... **£129**

aga flicker fixer

ScanDoubler II is a full 24-bit AGA flicker fixer which automatically de-interlaces all AGA screen modes and scan doubles non-interlaced PAL/NTSC modes to allow VGA monitors to display them. Supports VGA, 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.

SCAN DOUBLER II **£399**

tandem cd-de

Connect a CD-ROM, Syquest and any IDE hd to your A2000/3000/4000. Comes complete with cable and s/w. ROM 2.04 or above.

TANDEM CD-DE **£69**

award winning amiga peripheral manufacturers

GVP

gvp products

Power Computing Ltd are now the official joint owner and manufacturer of Great Valley Products Inc. For more information, please call 01234 273000.

a4000 68060

A 68060 accelerator board for the A4000 running at 50MHz and allowing upto 128MB of user installable memory and a SCSI-II hard disk controller. The board can be configured with either 4MB, 8MB, 16MB or 32MB industry standard SIMMs.

A4000 68040 (0MB RAM) **£699**
A4000 68060 (0MB RAM) **£829**
4MB STANDARD ADD **£139**
4MB GVP ADD **£159**

a2000 68060

A 68060 accelerator board for the A2000 running at 50MHz and allowing upto 128MB of user installable memory and a SCSI-II hard disk controller.

A2000 68040 (0MB RAM) ....**£TBA**
A2000 68060 (0MB RAM) ....**£TBA**
4MB STANDARD ADD **£139**
4MB GVP ADD **£159**

gvp ram

Official GVP RAM SIMMs.

4MB GVP RAM **£159**
16MB GVP RAM **£549**

gvp hc-8 scsi

SCSI hard card which can fit 8MB of RAM on-board.

HC-8 SCSI CARD **£99**

gvp g-lock

Award winning Amiga Genlock.

G-LOCK AMIGA GENLOCK **£259**
DSS-8 SOUND SAMPLER **£55**

io-extender

Zorro II card that provides an additional serial port, parallel port and connection for optional RS422 and RS232 port. Call for details

ioEXTENDER **£59**

emulation

Mac and PC emulators for the Amiga.

EMPLANT MAC BASIC **£239.95**
BASIC MAC EMULATOR
EMPLANT MAC OPTION A ..**£279.95**
DUAL SERIAL PORT AND APPLETALK
EMPLANT MAC OPTION B ..**£279.95**
HI-SPEED SCSI INTERFACE
EMPLANT MAC DELUXE ...**£399.95**
INCLUDES OPTION A AND B
E586 DX MODULE **£89.95**
PC EMULATOR MODULE

new

glidepoint

Intuitive cursor control at your finger tips replaces the mouse or trackball and 'Tap' for an instant selection.

ALPS GLIDEPOINT **£59.95**

new

power tablet

Pen and cursor controlled graphic tablet, including cables and software.

POWER TABLET 12 X 12 .**£195.95**
INCL. PEN, CURSOR AND POWER TAB S/W

a500 68020ec

A 68020 EC processor accelerator card for the A500 and A500+, with an option to fit a 68881 or 68882 co-processor (PLCC or PGA). This card can fit upto 4MB FAST RAM and is fully auto-configuring.

NOT COMPATIBLE WITH GVP HARD DRIVE

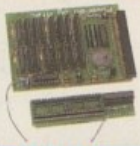
A500 68020 EC 0MB RAM ...**£99.95**
A500 68020 EC 4MB RAM ..**£239.95**

megachip ram

Increase your Amiga 500/2000 chip RAM to a total of 2MB. MegaChip does this by using its own 2MB RAM and also now includes a 2MB Fat Agnus. No soldering is required.

MEGACHIP RAM **£159.95**

VGA ADAPTOR **£15**



a500 2mb ram

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

A500 2MB RAM **£90**

MEMORY CARDS

512K RAM WITH CLOCK **£24.95**
512K RAM WITHOUT CLOCK .**£19.95**
A600 1MB RAM **£39.95**
A500+ 1MB RAM **£29.95**

modems

ACEEX V32 BIS 14.4 NOT BT APPROVED**£139**
X-LINK TRUE V34 28.8 BT APPROVED**£229.95**
TRAPFAX MODEM SOFTWARE ...**£49**
ALL MODEMS INCLUDE SOFTWARE AND CABLES

printers/monitor

MICROVITEC 1438 14" **£289**
EPSON STYLUS INC.PAPER **£489**
EPSON STYLUS PRO XL A3+ ..**£1499**
EPSON STYLUS/PRO XL INCLUDE STUDIO II SOFTWARE
STUDIO II SOFTWARE **£49.95**

graphic/video

PICASSO II 2MB RAM **£249.95**
INCLUDING TV PAINT JNR.
PICASSO II 2MB RAM **£399.95**
INCLUDING TV PAINT 2
CYBERVISION 64 .....**£329.95**
64-BIT GRAPHICS ENGINE, INCLUDES 2MB
VIDEO DAC **£25**
18-BIT GRAPHICS ADAPTOR
MAXIGEN 3 .....**£299.95**
VIDEO GENLOCK

order form

phone orders
We accept most major credit cards and are happy to help you with any queries.

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

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

technical support
Help is on hand with a full Technical Backup service which is provided for Power customers.

mail-order prices
All prices listed are for the month of publication only, call to confirm prices before ordering.

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

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

NAME .....
ADDRESS .....
.....
.....
.....POSTCODE .....
.....

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

for product information sheets please call

TELEPHONE **01234 273000**
FACSIMILE **01234 352207**

POWER COMPUTING LTD
44A/B STANLEY STREET
BEDFORD MK41 7RW

.power

Contents

SYSTEM

The essential guide to Amiga gaming

System On-line 82
Take a look at the latest events and news unfolding in the Amiga games world

Preview: Tiny Troops 91
Direct gangs of vertically-challenged people in Lemmings meets Cannon Fodder

CD-ROM goes public 92
Millions of games crammed onto single CDs? Andy Maddock decides if it really is bargain basement

Preview: Center Court 96
Anyone for tennis? Andy Maddock takes a look at Acid Software's latest

Preview: Citadel 99
Tina Hackett reveals yet another Dool clone in the pipelines – this time from Poland

Competition 101
Win yourself some Sensible Golf goodies in our competition

Budgets 102
More of the latest cheapies for the skinfints among you

Game Reviews

Super Street Fighter 2 84
Gamer Gold 86
Gloom 88
Brutal: Paws of Fury 94

Gloom – see page 88

Reviews

Scala MD100 23
Scala's new Mpeg encoding and decoding card comes under scrutiny

Laser Guidance 24
Gareth Lofthouse gives you his guide to the latest Amiga CDs

Sonnet Doubler 29
Ben Vost looks at a simple way to double the speed of your Amiga 4000 040

Tune Builder 30
Paul Austin gives you a full review of this acclaimed music package

CD Drives 33
Neil Mohr reviews two of the latest CD-ROM drives to hit the streets

Panasonic Drive 54
It's a CD-ROM, and it's a removable hard drive. It's Panasonic's PD Drive reviewed by Ben Vost

Net Novelties 63
Ben Vost tries out new versions of AMosaic, ACUSeeMe and the Mosaic Hotlist

Ami File Safe 68
The defacto replacement for the standard Amiga file system. Nik Lines checks it out

Features

Speakers' Corner 34
Gareth Lofthouse and Tina Hackett sound out some of the speakers for our Amigas

Multimedia Future 50
Gareth Lofthouse reports on the people bringing you the Amiga's multimedia future

Mortal Combat 64
Tina Hackett speculates on the future of the Amiga as a viable games platform

Super Amiga 71
Is it really possible to make a Super Amiga? Ben Vost thinks so

Assembler 75
Collapsing windows form the focus for this month's continuing tutorial

Next issue on sale 21 September

COVER STORY

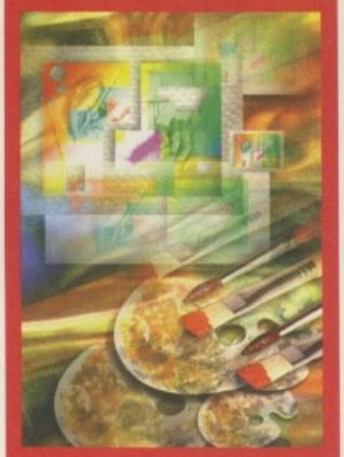
THE COVERDISKS Page 18

DFAddress

One of the best-known shareware address databases, and we've got it on our first CoverDisk

Our second disk is jam-packed this month with splendid tools and utilities:

PNG datatype; epoch Voyager; Yak; PS3M; Play16; Cyber Sound; Tiff datatype; Text datatype patch; Virus Checker; Converter Master; Lupe



Animation: The art of the matter

Adam Phillips goes in search of pure brilliance and finds the genii behind some of today's best 2D animations

See page 57

REGULARS

News 9

Adam Phillips looks on in horror at the new Amiga price tag

USA News 14

Denny atkin on the latest developments in the United States

Comment 16

Ben Vost worries about people walking with parrots on their shoulders

ESP 38

Having asked for more letters, Ezra gets swamped by one

ACAS 42

Help! Help! Never fear. We're here to give you a hand

Public Sector 46

Dave Cusick trawls through the best of the latest shareware titles

111 **ARexx**
Paul Overaa goes loopy in his Amos column this month

113 **Video**
What are CEI up to? Gary Whiteley wants to find out

115 **Music**
Paul Overaa examines MIDI drum machines, their pitfalls and advantages

117 **Comms**
Phil South doles out useful advice for keeping your phone bill down

119 **Amos**
The final part of the screen info program courtesy of Phil South

120 **Publishing**
A new version of PageStream and some add-ons for it

AMIGA GUIDE

Amiga Medical 107
Frank Nord looks at bits and bobs for Amiga productivity

Amiga 3D 109
Paul Austin checks out Plug-Ins and Go from Hester Associates

QUALITY AMIGA PERIPHERALS & SOFTWARE

VIDEO AND GRAPHICS

FUSION GENLOCK
FOR ALL AMIGA COMPUTERS

FREE SCALA HT100 HOME VIDEO TITLING PROG WORTH £49 INC VAT

BEST BUY AMIGA SHOPPER 92%

- High quality graphics and video mixing desk
- FREE Scala HT100 program disk
- Add titles and special effects to videos
- Ideal for home and semi-professional users
- Supports all standard Amiga and AGA graphics
- Input and output composite video signals
- Switches between video only, computer only and mixed graphics
- Hardware fade between graphic/video
- RGB thru - saving the genlock from being unplugged when not in use
- Optional chroma key unit available September '95
- Comprehensive 16-page manual plus full colour sleeve

£99 INC VAT VID 2100

CD-ROM DRIVE & SOFTWARE

OVERDRIVE QUAD SPEED CD-ROM
FOR THE AMIGA 1200

This unit combines a CD-ROM drive with the future in Smart Card Interfaces, the PCMCIA slot. This makes for an incredibly convenient and simple to use CD-ROM drive system opening up a whole new world of CD/multimedia technology.

- PCMCIA connection
- Quad speed mechanism
- 600K/sec data transfer rate
- PhotoCD compatible
- Multi-session compatible
- Runs most CD32 software

NEW

£249 INC VAT HAR 3542

SEE PAGE 2 FOR FULL OVERDRIVE RANGE

Aminet Set 1	£24.95	Light ROM	£39.00
4 gigabytes of software - ACA 0500		650Mb of 3D objects, images etc - ACL 0100	
Aminet 5	£14.95	Meeting Pearls Vol. II	£9.95
1.1 gigabytes of software - ACA 0510		650Mb of the finest FD software - ACM 0500	
Aminet 6	£14.95	Terra Sound Library	£19.95
1.1 gigabytes of software - ACA 0520		7,800 sound files - ACT 0400	
Animations Double CD	£19.95	The Light Works	£39.00
Hundreds of animations - ACA 1000		Raytracing package - ACT 0500	
CDBoot 1.0	£29.00	UPD Gold	£29.95
Use CD32 games on A1200/4000 - ACC 1000		Entire PD library on 4 CDs - ACU 6500	
Giga Graphics	£29.00	Zoom	£19.00
10,000 images on 4 CDs - ACG 0500		Selection of PD classics - ACZ 0500	

IMAGE MANIPULATION
PHOTOGENICS V1.2
FOR A1200/A4000

- Manipulate and paint graphics in 24-bit
- Supports popular image formats including JPEG, GIF, IFF, PhotoCD and many more ...
- Multiple image editing
- Real-time HAM8 display
- Open design lets you to add your own loaders, savers or effects

NEW VERSION

£54 INC VAT ASP 3000

IMAGE PROCESSING
IMAGE FX v2.0
FOR ALL AMIGAS

SAVE £100 OFF PREVIOUS RRP

- 24-bit image processing
- Various Realtime painting tools
- Image thumbnails
- Enhanced text handling
- Expanded image composing
- AutoFX
- Image FX browser
- Soft edge & anti-aliasing

£99 INC VAT ASI 2132

SCALA MULTIMEDIA
MM400

- Video titling and presentation package
- Import Deluxe Paint and similar animations
- Professional quality wipes and transitions
- Imports MIDI and standard sound files
- Supports GIFF, PCX, FLC, PhotCD and many other file formats
- Easy to use storyboard layout

£299 INC VAT ASS 1042

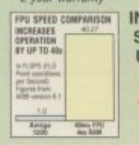
RAM UPGRADES

A500 512K (no clock)	£20.00
Takes an A500 from 512K to 1Mb - RAM 0505	
A500 512K (inc clock)	£25.00
Takes an A500 from 512K to 1Mb - RAM 0510	
A500 Plus 1Mb	£30.00
Takes an A500 from 1Mb to 2Mb - RAM 0520	
A600 1Mb (no clock)	£30.00
Takes an A600 from 1Mb to 2Mb - RAM 0605	
A600 1Mb (inc clock)	£40.00
Takes an A600 from 1Mb to 2Mb - RAM 0610	
Hawk 1Mb - No FPU	£99.00
8Mb 32-bit RAM board, 1Mb populated and battery backed clock - RAM 1210	

HAWK
RAM UPGRADE & MATHS ACCELERATOR OPTIONS
FOR THE AMIGA 1200

BUILT-IN BATTERY BACKED CLOCK

- Plugs straight into A1200 trapdoor - No soldering required
- Upgradeable FAST RAM board to 1, 2, 4 or 8Mb
- Uses industry standard socketed SIMMs for easy upgrades
- Optional Floating Point Unit - 33MHz or 40MHz PLCC 68882 co-processor
- Comprehensive manual with illustrations
- Works with all A1200 and A1200HD computers
- Does not invalidate your A1200 warranty
- 2 year warranty



INCREASES SPEED BY UP TO 3X FROM **£99** INC VAT SEE BELOW

Hawk 2Mb - No FPU	£129.00
8Mb 32-bit RAM board, 2Mb populated and battery backed clock - RAM 1220	
Hawk 4Mb - No FPU	£189.00
8Mb 32-bit RAM board, 4Mb populated, and battery backed clock - RAM 1240	
Hawk 8Mb - No FPU	£329.00
8Mb 32-bit RAM board, 8Mb populated and battery backed clock - RAM 1280	
FPU 33MHz For Hawk	£59.00
Cystal and FPU for Hawk - UPG 1250	
FPU 40MHz For Hawk	£99.00
Cystal and FPU for Hawk - UPG 1255	

MODULATOR

MAMBA MODULATOR
FOR ALL AMIGAS

The Amitek Mamba, External Modulator, makes an ideal replacement modulator for all Amiga owners. Everything needed is supplied. Like all Amitek peripherals, it comes with an easy to follow manual.

£34 INC VAT MOA 4200

POWER SUPPLY

Amitek A500/600/1200 £29.00
Beige coloured replacement power supply for A500/600/1200 - POW 0510

FLOPPY DISK DRIVES

1Mb SONY FLOPPY
3½" DELUXE EXTERNAL FLOPPY DRIVE
FOR ALL AMIGA COMPUTERS

- High quality 3½" Sony mechanism
- Strong metal casing
- Built-in anti-click feature
- Switchable anti-virus mode
- Engable/disable switch
- 75MS access time
- Daisy chainable via thru port
- Low power usage
- External PSU not required

£59 INC VAT DRI 1150

LOADER INTERNAL FLOPPY
3½" 1Mb INTERNAL FLOPPY DRIVE
FOR AMIGA 500/500PLUS OR AMIGA 600/1200

These internal Amitek Loader replacement drives are ideal for users who wish to replace their existing internal drive. The pack features a high quality internal 1Mb, 3½" drive mechanism for the Amiga 500/500PLUS or Amiga 600. All that you need to fit your drive is included, plus easy to follow fitting instructions and 24 months warranty.

£34 INC VAT DRI 3600 **£44** INC VAT DRI 3605

SCSI INTERFACE

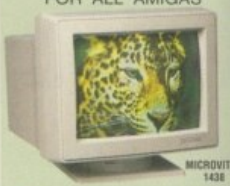
SCSI-2 INTERFACE
SQUIRREL
FOR A600/A1200

Named after the famous storage hungry animal, the Squirrel SCSI-2 interface simply plugs into the PCMCIA slot (avoiding warranty problems) and allows you to connect up to 7 SCSI devices to your Amiga at the same time. This could be any combination of hard drives, SCSI CD-ROM drives, tape streamers, SyQuest removable drives, etc.

£69.95 INC VAT HAR 4000

COLOUR MONITOR

14" COLOUR MONITOR
FOR ALL AMIGAS



- 14" .28mm, CGA Stereo Colour Monitor
- 15KHz-40KHz
- Digital RGB & CVBS
- Adaptor for Amiga
- Power and audio cables

£299 INC VAT MON 5438

SOFTWARE OFFERS

ORGANISER - DIGITAL FILOFAX

The Digita Organiser with its striking interface superbly emulates the printed filofax diary. It lets you type appointments, birthdays, lists and more. A full address book, calendar and task list are also included. It is the only program of its type on the Amiga, and has the option of printing pages that can be inserted into a real filofax.

NEW

£39.99 INC VAT ASO 7500

BRILLIANCE V2.0	£49.00	VISTA PRO 3.0	£24.95
Advance paint & animation software - ASB 7912		Landscape generating package - ASV 8002	
CANDO V2.5	£79.00	FINAL WRITER	£74.95
Interactive audiovisual authoring - ASC 2200		Word publisher with graphics & fonts - ASF 3802	
DATASTORE	£49.00		
Create your own library - ASD 4022			
EDGE 1.7 - PRO	£16.95		
For text editing - ASE 8200			
GB ROUTE PLUS	£34.99		
Plan trips and journeys in the UK - ASG 3122			
KINDWORDS 3	£29.00		
Professional text processor - ASK 5832			
MAXIPLAN 4	£19.00		
Business software suite - ASM 2012			

WORDWORTH 3.1SE
SPECIAL EDITION FOR A1200

Low cost, true WYSIWYG word processor

£49 INC VAT ASW 6030

SILICA

MAIL ORDER HOTLINE: 0181-309 1111
23 STORES NATIONWIDE

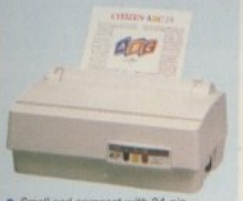
ALL PRICES INCLUDE VAT

SILICA 1978 17 YEARS 1995 SERVICE TO YOU

FREE UK DELIVERY
ON ORDERS OVER £47 INC VAT

PRINTERS

CITIZEN 24-PIN ABC COLOUR DOT MATRIX



- Small and compact with 24-pin print quality
- Works with any PC or Amiga computer
- 5 Built-in fonts, 2 scalable to 40pt
- Built-in 50 sheet auto feeder
- Citizen 'Easystart' software for Windows and Amiga
- Auto set facility
- Resolution: 360 x 360dpi
- Black ribbon
- Colour kit supplied including colour ribbon
- 2 year warranty

£149 INC VAT PRI 2422

CANON BJC4000 COLOUR BUBBLE JET

- Speed: 4 pages per minute - 10cpi at 248cps (high speed) and 173cps (high quality)
- 80 column - A4
- Res: 360 x 360dpi - 720 x 360dpi with smoothing function in mono
- Fonts: 5 typefaces
- Parallel interface
- 64K input buffer, 41K download buffer
- Emulations: LQ2550, X23E, Canon enhanced
- Automatic and manual sheet feeder

£319 INC VAT PRI 1734

HEWLETT PACKARD COLOUR INK JET 660c

- Speeds: B&W: 270cps draft/ 134cps LQ Colour: 0.6mpp EconoFast Mode
- Res: 600 x 600dpi black and white 600 x 300dpi colour
- 100 sheets A4, up to 20 envlopes
- 8 bitmapped fonts for DOS
- 14 TrueType fonts for Windows
- Parallel interface
- 3 year return to base warranty

£429 EXC VAT PRI 5391

STUDIO PRO II PRINTER CONTROLLER

- Print 24-bit graphics
- Workbench drivers for most printers
- Prints pictures from disk using very little memory
- The ONLY professional colour management system on the Amiga

£49 INC VAT ASS 8600

SILICA STOCK A FULL RANGE OF PRINTERS, DRIVES & ACCESSORIES - CALL FOR DETAILS

HD & CD-ROM DRIVES, MICE & J'STICKS

MICE & J'STICKS

Logic 3 Speed Mouse £11.95
Switchable for Amiga and ST, 300dpi, ultra-sensitive buttons - MOU 4000

Mega Mouse £12.95
Ultra high 400dpi resolution, 5 foot cable, effortless fingertip operation - MOU 1875

Quickshot Apache QS131 ..... £6.99
2 fire buttons, 6 foot cable, biogrip for, maximum control, 4 suction cups - JOY 6431

Quickshot Starfighter 1 ..... £8.99
Turbo fire button, 6 foot cable, thumb, control, hands free auto fire - JOY 6467

Zip Stik Super Pro £12.95
Autofire, microswitches, hand held/ table top joystick - JOY 5600

MEGA MOUSE
FOR ALL AMIGAS

- Ultra high 400dpi resolution with opto-mechanical encoder
- 5 foot cable
- Effortless fingertip operation with reliable micro-switch buttons

£12.95 INC VAT MOU 1875

CD-ROM & HARD DRIVES

Seagate ST9145A 127Mb + GVP Software £199.00
Upgrades an Amiga 600 or 1200 to a hard disk model - HAR 0127

Seagate ST9190AG 171Mb + GVP Software £229.00
Upgrades an Amiga 600 or 1200 to a hard disk model - HAR 0171

Seagate ST9240AG 210Mb + GVP Software £249.00
Upgrades an Amiga 600 or 1200 to a hard disk model - HAR 0210

DATAFLYER 4000SX SCSI CONTROLLER
FOR THE AMIGA 4000

Allows the connection of external or internal drives, tape back-up units, CD-ROMS, flopticals and SyQuest. Includes many drivers

- SCSI expansion card
- Internal and external connections
- Cable & drivers inc.
- Supports rigid disk blocks and SCSI direct

£89 INC VAT HAR 1310

OverDrive Double Speed £179.00
Allows access to Amiga specific CDs and play CD[32] software - HAR 3540

OverDrive Quad Speed £249.00
Allows access to Amiga specific CDs and play CD[32] software - HAR 3542
SEE FEATURE ON PAGE 1

OverDrive HD (IDE) £249.00
Ultra Fast 560Mb Hard Drive, plugs onto PCMCIA slot - HAR 3544

OverDrive HD/CD Combo £199.00
Double speed CD drive with space for HD as well - HAR 3548

Panasonic PD SYSTEM
READ/WRITE OPTICAL DRIVE

- Quad speed CD-ROM Drive with 600K Data Transfer and 195ms access
- 650Mb re-writable optical disk drive with removable cartridges. Cartridges (DIS 1500) £45.00

ALL-IN-ONE

NEW **£645** INC VAT CDR 4300

AMIGA CD[32]

CRITICAL ZONE PACK
32-BIT SYSTEM - 7 CD TITLES

OVER 100 CD-ROM TITLES AVAILABLE

INCLUDES
CANNON FODDER

PLUS
DIGGERS

PLUS
LIBERATION

PLUS
MICROCOSM

PLUS
OSCAR

PLUS
PROJECT X

PLUS
ULTIMATE BODY BLOWS

CD-ROM BASED POWER CONSOLE

MORE THAN JUST A GAMES CONSOLE

Critical Zone includes the powerful 32-bit CD[32] games console with built-in dual speed CD-ROM drive, an 11 button controller and 7 top CD-ROM games. Optional upgrades include keyboard and disk drive (allowing use of A1200 software) and an MPEG video playback card allowing video CDs to be played on the CD[32].

- *32-Bit processing power*
- *Dual speed CD-ROM drive*
- *16.8 million colours*
- *Plays audio & CD+graphics CDs*
- *11 button controller*
- *Titles available from £14.99*
- *Optional full screen video CD module - CCA 0320 @ £199*

OPTIONAL SX1 MODULE

Turns the CD[32] into a powerful 32-bit multimedia computer using the SX1 multiport expanson module.

£199 INC VAT - CCA 0100

£199 INC VAT CCD 3450

SILICA

MAIL ORDER SALES TEAM

23 STORES NATIONWIDE

19 BRANCHES IN DEBENHAMS

FREE DEMONSTRATIONS AVAILABLE

MAIL ORDER • FREE DELIVERY

0181-309 1111

FREE DELIVERY in UK mainland on orders over £40+vat. Small admin. charge (£2.50+vat) on orders under £40+vat.

THE SILICA SERVICE

SILICA 1978 1995 17 YEARS SERVICE TO YOU

Before you decide WHEN to buy, we suggest you consider WHERE to buy and protect your investment with a purchase from Silica. With our unrivalled experience and expertise, we will provide all the extra help, advice and new product information you may need both now and in the future. Buy direct, visit one of our stores, or return the coupon now and begin to experience the "Silica Service".

COMPUTER SHOPPER 1994 Awards WINNER *Best Software Delivery Service*

COMPUTER SHOPPER 1994 Awards NOMINATION *Best After Sales Service*

17 YEARS EXPERIENCE
Silica has been established for over 17 years, longer than most other computer suppliers, and has a proven track record in professional computer sales.

WE PRICE MATCH
If before you make your purchase from a Silica store, you see the same goods offered at a lower price by a local competitor, we will match them on a Same Product - Same Price basis. For customers who order by telephone, we will match other mail order companies prices (including their delivery charge). All price matches are subject to our competitor having the goods in stock.

OPEN UNTIL 7PM
Mail order lines are open Mon-Fri 9am to 7pm and Sat 9am to 5.30pm. Call your local store for shop opening times.

HOW TO PAY
We accept most major credit cards, cash, cheque or monthly terms (APR 19.9% - written quotes on request).

WE OFFER DISCOUNTS
To Business, Education and Government purchasers who place volume orders. Call 0181-308 0888.

CREDIT TERMS AVAILABLE
10% deposit & 12, 24 or 36 monthly payments (APR 19.9%) or 0% interest available on selected products over £1000 - Subject to status - Call for details

WE SUPPORT YOU
Free Technical Helpline - 0181-309 1111 and Free brochures available on request.

MAIL ORDER & HEAD OFFICE: Silica House, Hatherley Road, Sidcup, Kent, DA14 4DX

23 STORES NATIONWIDE

BRISTOL	Debenhams	(2nd Floor), St James Barton	0117-929 1021
* CARDIFF	Debenhams	(1st Floor), St. David's Way	01222 341576
CHELMSFORD	Debenhams	(2nd Floor), 27 High St	01245 355511
CROYDON	Debenhams	(2nd Floor), 11-31 North End	0181-688 4455
GLASGOW	Debenhams	(5th Floor), 97 Argyle St	0141-221 0088
GLOUCESTER	Debenhams	(Ground Floor), Kings Square	0145-252 2121
GUILDFORD	Debenhams	(2nd Floor), Millbrook	01483 301300
HARROW	Debenhams	(2nd Floor), Station Rd	0181-427 4300
HULL	Debenhams	(2nd Floor), Prospect St	01482 325151
IPSWICH	Debenhams	(2nd Floor), Westgate St	01473 221313
LONDON	Silica	- 52 Tottenham Court Rd	0171-580 4000
LONDON	Debenhams	(3rd Floor), 334 Oxford St	0171-580 3000
* LONDON	Harrods	- (2nd Floor), Knightsbridge	0171-730 1234
LUTON	Debenhams	(1st Floor), Arndale Centre	01582 21201
MANCHESTER	Debenhams	(2nd Floor), Market St	0161-832 8666
PLYMOUTH	Debenhams	(2nd Floor), Royal Parade	01752 266666
ROMFORD	Debenhams	(2nd Floor), Market Place	01708 766066
SHEFFIELD	Debenhams	(2nd Floor), The Moor	0114-276 8611
* SHEFFIELD	Debenhams	(L Ground), Meadowhall Ctre	0114-256 9778
SIDCUP	Silica	- Silica House, Hatherley Rd	0181-302 8811
SOUTHAMPTON	Debenhams	(1st Floor), Queensway	01703 229888
SOUTHEND	Keddies	(2nd Floor), High Street	01702 462426
* THURROCK	Debenhams	(1st Floor), Lakeside Centre	01708 863567

SILICA DEBENHAMS

*These stores carry a selected range only but products can be ordered in the stores via Mail Order

FREE BROCHURES

CALL 0181-309 1111 OR RETURN THE COUPON

To: Silica, AMCOM-1095-260, Silica House, Hatherley Rd, Sidcup, Kent, DA14 4DX

- ☐ Please send me an Amiga brochure - free of charge
- ☐ Please send detailed information on the following products:

Mr/Mrs/Miss/Ms: ..... Initials: .....

Surname: .....

Company (if applicable): .....

Address: .....

Postcode: .....

Tel (Home): .....

Tel (Work): .....

Which computer(s), if any, do you own? .....

262C

2

03085

NEWS

By ADAM PHILLIPS

Amiga price shock

Any hopes that the 1200 would be released for under £200 have been well and truly quashed with the news that the relaunched model will cost £399. This means the machine will reappear at £50 more than when it left the marketplace in the summer of last year. The reason given for such an increase is the cost of higher charges for rushed manufacturing, casing, and the increased cost of DRAM.

The 68020-based 1200 is expected to hit UK high streets at the end of September with a maximum of 60,000 allocated to British distributors.

The biggest shock, however, are the prices rumoured for the re-release of the 4000T – after an American distributor announced that they were to sell the 4000T for $3,500, Amiga Technologies fired back saying that this simply wasn't the case and no price had been decided upon yet.

Since then, a meeting has taken place in Philadelphia where several key figures from Escom/Amiga Technologies including Petro Tyschtschenko, Senior Vice President of Escom and General Manager of Amiga Technologies, and many distributors from round America, attended to discuss the Amiga's future in the US. Apparently at the top of the debating list was price.

The rumoured cost for the 4000T will be in the $2700 region – the reason given was the expense of parts being put together costing that much.

A surprising plan also unveiled is that the 4000T will receive no advertising from Amiga Technologies in the States on its relaunch – Tyschtschenko told *Amiga Computing* that any advertising would be handled by the distributors themselves.

There will be some 1200s winging their way to the US of A. Johnathan Anderson, the new general manager of Amiga Technologies UK, explained: "The States will be taking the 1200 in small numbers but we've found the American consumer prefers the tower-style type computer and not the look of the 1200."

As for the 4000T's relaunch into Britain, according to one UK company, White Knight Technology, they were told by Silica, the distributors, that the high-end machine will definitely be released in the 040 version at the confirmed retail price of £1,900 + VAT. It will come with 2 meg chip RAM, 4 meg FastRAM and a 1.2 gig SCSI 2 hard drive.

The fact that for this price there will be no monitor or CD drive included in the setup has drawn gasps of horror from both sides of the Atlantic. Also, the 060 version to be released later on is rumoured to cost an estimated £2,150 + VAT. No-one at Amiga Technologies was able to give a definite answer on pricing at the time of going to press.

Tyschtschenko also commented that they still weren't sure how they were going to market the 4000T on its arrival in the UK: "The US market is very buoyant and a good market for the 4000T, but we're still planning what we'll be doing for Europe – it's a very niche market for the machine."

Meanwhile, the manufacture of the machine is taking place in a factory near Bordeaux in France by a company called Solectron. For your £399, Amiga Technologies is throwing in software as part of a bundle to go along with the machine. The Scala MM300 has been announced as a package that will go with the system, but it's doubtful the package will ever appear for the floppy-based 1200. Anderson commented: "There's no point in including the Scala system with a floppy-based 1200 with no hard drive – it would be impractical. The 1200 with a hard drive though is much more practical and useful."

Questions are still being asked about the size of hard drive that will be provided – a figure floating around currently is 170Mb.

Bad news, though, came in the shape of the CD32 – apparently there are no plans presently for resuming the console in the States or the UK other than being possibly used as a key technology for kiosk displays. This was verified by Jonathan Anderson, but he hastened to point out that there are deals going on with various companies including a Canadian bank to use the CD32 in the commercial arena. The future of the FMV cartridge is looking decidedly shaky as well if reports are to be believed.

There was a meeting between the general managers of all the European subsidiaries on 3 August where many matters such as pricing, distribution and much more were resolved. Any official news will have to wait though until the press conference to be held by Amiga Technologies on 16 August. More news next month.

No Amigas in Escom shops

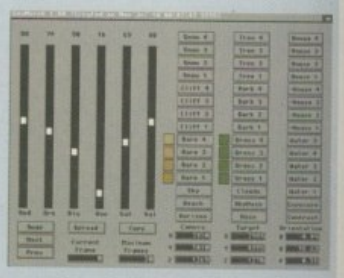
It has been confirmed by Petro Tyschtschenko, Senior Vice President of Escom and General Manager of Amiga Technologies, that the Amiga will not be appearing in any of the Escom shops dotted round the country. The reason for this decision was explained by Tyschtschenko: "We used to stock the Apple range in our shops but it was unsuccessful. We would need people who were Amiga educated but the Escom shop staff are very much geared towards the PC."

Instead, it looks like the main bulk of sales will be made through the independent retailers and any chain stores that decide to come on board.

New life for VistaPro

The much-heralded landscape package has received a useful ally in the form of GeoMorph. The utility is a landscape morphing program that allows the user to create surrealistic fly-by animations.

There are several types of morph available: Linear morphs where the entire landscape changes at a constant rate, accelerated morphs where the change accelerates or decelerates, and 'wipes' where the change starts at one side or corner of the landscape and sweeps across.



GeoMorph: Bringing new life to VistaPro

Grow or shrink trees, empty or fill lakes, change positions of rivers, make clouds that move and change, plus alter treelines, snowlines and sea levels on the fly. GeoMorph requires Vista Pro 3 and a system with hard disk and a minimum of 4 meg. Costing $69.95, interested punters should call Chaocity on 001 805 925 7732.

New Amigas on show

If you're desperate for a sneak preview of the up-and-coming Amiga machines, the "Internationale Funkausstellung" fair is being held in Berlin and Amiga Technologies, together with Escom and Virtual Products, have booked their own booth. This is the first time the Amiga will be given its official airing since Commodore crashed.

Held from the 26 August to 3 September, the 1200 and 4000T with different configurations and several applications will be on show for Amiga fanatics to gaze over. Also rearing its head are the much talked about Virtual i-O's i-glasses. Exclusively distributed by Escom in Europe, the glasses are a virtual reality headset that will allow computer images and television pictures to be displayed in them, and is fully compatible with the Amiga. Apparently, the glasses have received positive feedback from the industry with IBM and Microsoft committing themselves to support the new hardware.

Virtual i-O's i-glasses: Virtual reality in home takes a step closer

Amiga Technologies UK team

After the failed attempt by David Pleasance to buy Commodore UK as an on-going concern, the new face of Amiga Technologies based in Maidenhead near the old headquarters of C=UK has appeared on the second floor of a high-street rented office. Heading the team is Jonathan Anderson, ex-Product Marketing Executive for C=UK, with support from five other former Commodore employees including national account manager Bob Burridge and sales manager John Smith.

Anderson is quick to point out "that it's a real team effort here. We're working together to make the Amiga an absolute success on its relaunch."

And for those wondering what happened to David Pleasance and Colin Proudfoot, former managing directors of the UK subsidiary, Anderson sheds a veiled light on the subject: "They were offered a package and subsequently declined the offer."

Amiga architecture

The Amiga is continuing its saturation of all walks of life – this month sees the merger between Delphus Visuals, a graphics and animation house, and Visual Space and Illustration, an architectural computer modelling consultants.

The end result is a collaboration that'll produce animated walkthroughs and flybys primarily for the architectural community and property developers. Using the Cyberstorm 060 accelerator, the company has big plans for the future using the Amiga.

For more details on how to see your dream home turned into a virtual reality, contact Simon Wilson on 01633 613300.

Multimedia on the increase

After the announcement of ImageVision from ImageLab last month, another company in the form of Optonica are on the verge of releasing a multimedia package in September to rival Scala's. There are two versions up for grabs – MM Experience and MM Experience Pro.

The former is aimed at home users allowing the combination of graphics, animations, music modules, text, sound samples and CDXL video into standalone presentations or productions. The package comes with a free distribution player so that any end results can be circulated among potential viewers.

The MM Experience Pro is suited to the professional developer wanting to create CD-ROM-based projects, point of information, and point of sale projects and interactive TV interface systems. Featuring all the facilities of the standard version, the more advanced additional functions include animated menus, optimisation for CD, project management facilities, CD32 controller support, ISO prep and ISO build functions, project chaining and more.

The MM Experience retails at £39.95 and the Pro version at £249.95.

Also announced is InfoNexus 2, the file management system, with a host of improvements and new functions at £29.95. For more details on any of these products, contact Optonica on 01455 558282.

MM Experience: The latest in multimedia productsMM Experience: The latest in multimedia products

News briefs

TUC on-line

In a distinctly tongue-in-cheek move, the Trade Union's Congress are planning to open its very own Cyber Canteen at the forthcoming Congress from the 11-15 September in Brighton. They are also unleashing their own web site as a forum for debate and information. The address is: **http://poptel.org.uk/tuc**

Make a movie

Visitors to the Museum of the Moving Image between the 11 and 29 October are being offered the chance to contribute to an animated short film called Going To The Pictures as part of the Get Animated event being held there. In conjunction with the Art Councils web site, The Hub, Internet users will be able to download the film as it is made. The web address is: **http://www.ace.mdx.ac.uk/Hub/Hub.html**

The home page

Already receiving a warm welcome from visitors, *Amiga Computing*'s home page is waiting to be perused. For the latest news, previews and reviews, simply type in : **http://www.demon.co.uk/amigacomp**

New browser on the way

While Netscape aren't exactly on the verge of releasing an Amiga version of their now world-famous navigator system, P'Jami is a new browser based on the still-in-development HotJava which has been winning some acclaim for its unique features. Developed by Sun Microsystems, they are making the source code available to anyone wishing to port the program over to another format.

To have a chat with the development team, send some e-mail to the following address: amiga-hotjava@mail.iMNet.de

Oops

In our article on Colchester Zoo last month, we gave the impression that Optonica's authoring system Interplay had been written by Premier Vision. This is not true and the package was solely created by the bods at Optonica.

Quad speed for 1200

Quad speed CD-ROMs are beginning to infiltrate the Amiga market, ushered along by the arrival of Silica's Overdrive Quad Speed unit for the 1200. Connected through the PCMCIA card slot, the CD-ROM is IDE-based and capable of holding up to 650Mb of information with a transfer rate of 600K/sec.

The makers claim that the Overdrive is also compatible with the majority of CD32 software and has Kodak PhotoCD and multi-session compatibility. The kit will set you back £249 and can be ordered from Silica on 0181-309 1111.

Quad-speed CD-ROM: Offering fast transfer rates and compatibility with the majority of CD32 software

Aspirations

Cyberscribes wanting to be the next David Mamet, Alan Ackybourn, or Caroline Churchill, can now visit Allied Domecq Internet site where information on its arts initiative can be found. The international drinks and retailing company has recently set up a competition for a new playwright somewhere to win a £5000 development grant for the most promising script outline.

After winning, the writer will be given expert advice to complete the play and then with extra funding, the script will be turned into a reality and performed on stage.

For more information on the Allied Domecq 1995 Playwright Award, access their site:

http://www.demon.co.uk/hyperinteractive/playwright.html

More Amiga products

This month sees the announcement of a host of products for the Amiga from Gordon Harwood. First up is the new ProGrab Plus package featuring S-VHS compatibility. Also included is the new version 2.5 software and the real-time colour frame grabber and digitiser costs £129.95. For existing users an upgrade is available for £4.95.

For users wanting more power to their Amiga, Harwood have also announced several products for customer perusal. The new 1230-IV board features 50MHz 68030 technology and the Blizzard 1260 Turbo Board apparently brings the performance of the Cyberstorm 060/50 accelerator to the Amiga 1200. The prices for the former are £199.95 and for the latter, £599.95.

For more info, contact Gordon Harwoods on 01773 836781.

Over the rainbow

Cybersystems have a limited quantity of the excellent Rainbow III RTG graphics card for sale. The Rainbow III comes with 4Mb of super fast VRAM and runs under the EGS system. These boards are available for only £275 from Cybersystems on 01843 292150.

News briefs

A fresh start

The maker of award-winning monitors Iiyama have launched two more in the new family of redesigned display units. The 17" and 21" Vision Masters come with a new set of controls featuring just three buttons that allow a variety of differing functions. With an on-screen display and ergonomically designed cabinets, the 17" MF-8617E (available in September) costs £575 and the 21" MF-8221E (available in October) retails at an expected £1229.

More details can be obtained from Iiyama on 01438 745482.

Twisting your arm

You should approach friends who are members of the Special Reserve Discount Club with care – the Club has announced its 'Summer Membership Drive Arm Twister' that is offering a fiver to any current member who can introduce a new member for more than a year. The money will be accredited to their accounts with the Club and can be put toward a purchase.

The offer ends on the 30 September and for more details, contact Special Reserve on 01279 600205.

1200 expansion

CeV Design have announced the arrival of Zorro 3 Expansion for the 1200 in the shape of the New Model 4B Chassis. Due to ship this Autumn, the unit offers five Zorro III slots, two Zorro II slots, and a keyboard interface for an external keyboard to make the 1200 into a full tower case. There are also two video slots and a CPU 4000 slot plus four PS/2 Simm sockets for memory additions.

For more info, contact CeV Design on 001 617 942 0209.

Blitzed

For those interested in Blitz Basic 2, a new disk magazine has been unveiled called Blitzarama. Aimed at beginners and experts alike, a free copy of the first issue can be obtained by sending a SAE to: Blitzarama, 8 The Deepway, Quorn, Loughborough, Leicestershire LE12 8HG.

pecial Summer Sale Prices until 1st October

HARD DRIVES

Our HIGH SPEED 2.5" IDE hard drives for the A1200 and A600 computers come complete with fitting cable,screws, partitioning software, full instructions and 12 months guarantee.

All drives supplied by ourselves are tested, formatted,partitioned and have Workbench installed for immediate use.

Fitting is incredbly 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 fitting for personal callers.

85mb	£99.99
125mb	£114.99
170mb	£129.99
210mb	£149.99
258mb	£174.99
344mb	£199.99
510mb	£299.99

FREE 'HOW TO FIT YOUR HARDDRIVE' video and Stakker disk to increase the drive's capacity with every hard drive purchased.

APOLLO A1230 ACCELERATORS

These high spec accelerators simply fit in the trapdoor and are compatible with the PCMCIA card slot. They all use standard 72pin SIMMS (upto 32mb) and include a battery backed up realtime clock.

SIMMS
4mb £129.99
8mb £234.99

A1230 TURBO 50 LIGHT

FEATURES:
- 680EC30 processor (no MMU) running at 50mhz
- 1 simm socket
- Battery backed clock
- Socket for an FPU

ONLY £199.99

A1230 TURBO 28

FEATURES:
- 68030 (with MMU) and 68882 FPU both running at 28mhz
- Two simm sockets
- Built in SCSI II interface
- SCSI cable
- Software

ONLY £189.99

AIWA CD ROM DRIVE £169.99

A1230 TURBO 50

FEATURES:
- 68030 (with MMU) running at 50mhz
- 2 simm sockets
- Built in SCSI interface
- Socket for a 50mhz PGA 68882 FPU
- SCSI cable
- Software

ONLY £269.99

SPEEDCOM MODEMS

BEST EVER PRICE

These feature packed, top quality modems are probably the best modems available for use with the Amiga. All modems include our FREE MODEM ACCESORIES PACK (Worth £19.99) which includes a cable to connect the modem to the Amiga, NCOMM comms software and an Amiga Guide to Comms.

Features:-
- MNP2-4 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 Software £39.99

SPEEDCOM+B (14,400 V32bis) £89.99

SPEEDCOM+ET (19,200 V32Terbo) £139.99

SPEEDCOM+BF (28,800 V34 & VFC) £149.99

MEMORY EXPANSIONS

A1200 32 bit FASTRAM memory expansions featuring a battery backed clock, an accelerator FPU socket.
- Easy trapdoor installation.

NEARLY DOUBLES THE SPEED OF THE COMPUTER

SAVE £10.00 if you purchase an FPU at the same time as a memory expansion.

2mb	£114.99
4mb	£174.99
8mb	£299.99

33mhz 68882 FPU	£59.99
40mhz 68882 FPU	£79.99

A600 MEMORY EXPANSIONS

1mb without clock	£34.99
1mb with clock	£39.99

A500 HARD DRIVES

Simply fit onto the side of the A500 or A500+. Uses standard high speed IDE hard drive. Can have up to 8mbs of RAM fitted to it.

A500+ 125mb hard drive £189.99
A500+ 425mb hard drive £229.99

A1500/A2000 internal hard cards available at the same price.

ALSO AVAILABLE

CD ROM DRIVES (Power Computing) with Squirrel £191.99

INTERNAL REPLACEMENT FLOPPY DRIVES £44.99

GOLIATH HIGH OUTPUT POWER SUPPLY £44.99

CLOCK CARTRIDGE

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

ONLY £19.99
(plus £1.00 postage and packing)

siren

No.1 FOR MAIL ORDER

No.1 FOR AMIGA IN MANCHESTER

Order NOW for immediate despatch

FREEPHONE 0500 340548
(credit/switch card sales only)

tel: 0161 796 5279
for enquiries or
fax: 0161 796 3208

Send cheques or postal orders (made payable to Siren Software) or credit card details to:-

SIREN SOFTWARE, 178 BURY NEW RD, WHITEFIELD, MANCHESTER M45 6QF, ENGLAND

Access, Visa, Switch, Delta, Connect etc accepted

OPEN:

Monday to Friday 9am to 6pm
Saturday mornings 9am to 12pm

Personal callers wecome.

Please phone first to check availability of any item.

DIRECTIONS:

From the M62 junction 17 head towards Bury. We are 50 yards on the right hand side after the third set of lights. The door to our premises is next to the Psychic Centre opposite the Masons Pub.

All prices include VAT. Postage, and packing will be charged at £3.50 per order (U.K.), £7.50 Europe and £12.50 rest of the world.

PETRA SO

A SUBSIDIARY COM P

30 HARTINGTON ROAD, SOUT H

THE NEW AMOS AGA EXTENSION IS NOW AVAILABLE FROM PETRA SOFTWARE.

ORDER THE AMOS AGA EXTENSION FROM AMIGANUTS NOW AND YOU WILL RECEIVE AMOS DIALOG PROCEDURES ABSOLUTELY FREE OF CHARGE!!!

IF YOU DON'T BUY ....

Tel: 01703 348943

SOFTWARE

PANY OF AMIGANUTS

HAMPTON, HANTS. SO14 0EW

THE AMOS AGA EXTENSION AUTHORISED BY MICHAEL PRINCE IS THE MISSING LINK IN AMOS PROGRAMMING AND IT IS AT A PRICE THAT YOU CAN AFFORD!!!

£10.00 inc P+P

AMOS DIALOGUE PROCEDURES BY JOHN A. KINSELLA IS LIKE INTOS, ONLY IT IS MUCH BETTER. WITH THIS PROGRAM THERE IS NO NEED FOR THE INTERFACE LANGUAGE AS THIS DOES IT ALL FOR YOU.

YOU CAN ONLY CRY!!!

Tel/Fax: 01703 366069

The price isn't right

Denny Atkin reports on the US market's uncertainty about the new Amiga package and price

The US Amiga market is cautiously optimistic about Escom's prospects for reviving interest in the Amiga on this side of the pond. New Amiga 4000Ts are on the way for US customers, but it appears at press time that Escom don't believe there's enough interest in the A1200 over here to justify releasing an NTSC version in North America. This has a large group of dedicated Amiga followers anxious to upgrade to AGA but unable to justify an A4000T upset.

Rumours of a stratospheric $3,500 price for a basic A4000T unit hit the nets in July and nearly caused even high-end Amiga users to panic. However, Escom issued a statement that no price had yet been set, and it appears that the units will sell for under $3000. Even at that price, though, it appears that Escom views the A4000's North American market as strictly high-end video. Despite the Amiga's superior OS, it's hard to justify spending $2995 for a 25-MHz, 6Mb A4000T with a 540Mb hard drive and no monitor, when the same money will buy a name-brand 120MHz Pentium system with 16Mb, 1.2Gb of hard drive space, a 17-inch monitor, and a quad-speed CD-ROM drive.

Despite a growing concern that Escom have not only picked up Commodore's hardware line, but also their marketing prowess, a number of US companies are still working hard to provide new products for Amiga users. DKB has a 68060 board in the works (look for details next month), Final Writer 4 just shipped, and Oregon Research has updated Termite, the only commercial terminal program available in the US.

Gnawing on a New Termite

Oregon Research have updated their popular Termite comms software (distributed in the UK by HiSoft) to version 1.10, which sports a number of new features and bug fixes. Among the improvements are built-in ZModem (the program still supports external XPR protocols as well), built-in ANSI and VT102 terminal emulations, as well as XEM-based support for the RIP graphics terminal emulation popular on PC BBS systems, much faster scrolling, and a multitasking review buffer.

Other enhancements include chat window history, an improved dialer, support for multiple palettes, ARexx support in the macro subsystem, and an improved manual and quick-reference card. Most of the nagging bugs that plagued the initial release have been squashed – I have yet to see a crash in this version.

The update price in the US is $10 for a new disk and quick reference card, or $15 with the improved manual as well. For more information, contact Oregon Research, 16200 SW Pacific Hwy., Suite 162, Tigard, OR 97224 USA; phone (503) 620-4919; fax (503) 624-2940; or e-mail orres@teleport.com. (Contact HiSoft for U.K. update information.)

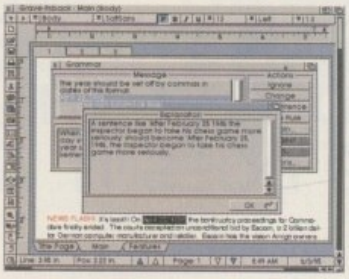
SoftWood branches out

SoftWood, once the tiny publisher of a few top-notch productivity programs, are branching out to become one of the big players in the US Amiga market. The company recently purchased the assets of now-defunct New Horizons, and now they've announced that they'll be carrying Phase 5 hardware products in North America, including the Cybervision 64 graphics card, Blizzard 1230-III accelerator and 1220-4 RAM board, Fastlane Z3 SCSI card, and Cyberstorm 060 accelerator for the A4000. Other exciting news is that SoftWood have hinted that the company will be working with Phase 5 to bring 68060 accelerators to the A1200, A2000, and A3000 series as well.

In the meantime, Final Writer is seeming to be an oddly inappropriate name for the company's word processor. SoftWood has now released version 4 of this 'Final' program. The updated version now sports an improved user interface with click-tab access to pages, sections, and requester areas, making many functions a click or two away and saving the trouble of working through layers of requesters.

Casual writers will appreciate the addition of a professional grammar checker to the program, as well as the ability to pull up readability statistics. And if you've cursed Final Writer's mechanism for selecting bold and italic text, you'll be happy to know that it's finally been made simple. The upgrade's only $30 from any previous version.

In the US, contact SoftWood at (800) 247-8330 (voice); fax (602) 431-8361, or e-mail 75300.670@compuserve.com for more information. European users should contact their local distributor.



Final Writer 4 sports an improved user interface, as well as a grammar checker

Breakup of the CIS

The CompuServe Information Service (CIS), home to four Amiga forums and the only US online service with easy access from the UK, has announced dramatic price cuts. The network's hourly rates have dropped from $4.80 an hour to $2.95 per hour, and the $9.95 monthly fee now includes five hours of access to all services.

Revamped software is on the way for the Mac and PC, but it remains to be seen whether CIS will support Amiga developers who want to create front-ends for our favourite computer. Hopefully they will, as it appears CIS isn't going to update the text-based portions of its services, but rather concentrate on building its Mosaic-like graphical user interface.

CompuServe also announced that they're going to create a second service, code-named WOW!, that will be geared more towards novice computer users.

Late Night Opening Wednesday & Thursday till 7.30pm

Open Sunday 11am to 4pm

FIRST COMPUTER CENTRE

HOW TO ORDER

Order by phone 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 for cheque clearance

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

SWITCH VISA DELTA MasterCard

LOW COST DELIVERY

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

Delivery subject to stock availability

- 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.

Telephone

E-Mail sales@firstcom.demon.co.uk

0113 231-9444

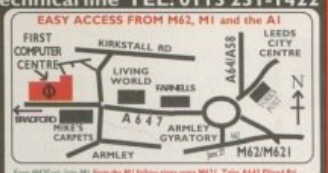
24 HR MAIL ORDER SERVICE FAX: 0113 231-9191

NEW! BBS Sales & Technical line TEL: 0113 231-1422

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.

EASY ACCESS FROM M62, M1 and the A1



From M62/East join M1 From the M1 follow signs onto M621. Take A643 Elland Rd turnoff from M621. Follow signs for A58. This merges with the Armley gyratory From M62/West Junction 27, A62 to Armley gyratory. From the A1 take the turnoff for A64. This merges with the A58 (by-passing town centre) which meets Armley gyratory.

Hardware

AMIGA

ALL FOR AVAILABILITY

A4000T 040 25mhz £2179.99

A4000T 060 50mhz £2469.99

Specifications
A4000 Tower Case, 6Mb Memory, 1.76 H.Density floppy drive, 1.2 Gig-SCSI Drive, Scala MM-300 Preinstalled.

New!! Amiga A1200 'Christmas 95 Pack'

Software pack details not available at time of going to press call for details.

Only!! £389.99

A1200 with 170Mb HardDrive Only!! £489.99

Get your order in early as UK stocks are limited.

Hard Drives

3.5" Hard Disk Drives with A1200/ 600 install kit

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

inc. software, cables and instructions

260Mb...£119.99 540Mb...£169.99

850Mb...£219.99 1.05 Gig...£274.99

3.5" Hard Drive upgrade kit only!! £18.99

Includes set up software, cables and full instructions, no Hard Drive.

Fitting service available if required.

2.5" Hard Drives for A600/A1200 with installation kit

inc. software, screws, cables and instructions

AMAZING 80Mb...£89.99

LOWEST 130Mb...£109.99

PRICES 250Mb...£139.99

EVER 340Mb...£189.99

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

WHEN IT COMES TO HARD DRIVES WE ARE THE CHEAPEST AND THE BEST, SO CALL US FIRST

CD ROM Drives

aiwa ACD-300

- Large LCD operation panel
- SCSI-2 interface
- 300k/sec data transfer, 275ms access time
- Audio CD dedicated operation buttons
- Supports Kodak multisession photo CD

ONLY £169.99

PRIMA Shareware CD ROM valued at £9.99 FREE!! with every order for the AIWA ACD-300 drive.

Sanyo-H94A 2 speed £126.99
- 320Ms Access time - 300KB Transfer rate.

NEC 6Xi 6 speed £312.99
- 150Ms Access time - 900 KB Transfer rate.
- Fully SCSI II compatible - Six speed drive

GVP 4008+ H.D./RAM card £129.99
SCSI II interface card for big box Amiga's.

SquirrelSCSI Interface £45.00
When bought with drive, £54.99 separate.

RAM Expansion

PRIMA

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

1 MB RAM	£89.99
2 MB RAM	£125.99
4 MB RAM	£189.99
8 MB RAM	£333.99
2 MB & 33 MHz CO PRO	£163.99
4 MB & 33 MHz CO PRO	£214.99
8 MB & 33 MHz CO PRO	£357.99

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	£29.99
PRIMA A600 1 Mb RAM (no clock)	£29.99

Tabby

only £59.99

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.

Floppy Drives

SONY Deluxe 3.5" External Drive only!!! £49.99

On/Off switch, Through port, Anti-click, Anti-virus switch, 12 month warranty and a tough durable metal case. Works on all Amiga's. Excellent value.

XL 1.44 Ext. drive ONLY!! £84.99

A1200/600 internal drive £39.99

A500/500+ internal drive £39.99

Scanners

Power Scan v4. £89.99
256 g/scale on AGA Amigas, 64 g/scale non AGA

Power Scan Col £174.99
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,HD req to use OCR

Epson GT8500 £549.99
Colour flatbed scanner Parallel/SCSI interface built in. Art Department scanning software, price £89.99

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 £274.99

*A1200's require an adaptor £6.99

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) £6.99
1 Mb by 4 ZIPPS	(each) £32.99
256 by 4 ZIPPS	(each) £5.99

Part exchange available on your old memory, Call for pric

Printers

Canon

Canon BJ30	£204.99
Compact Portable mono printer, 30 page ASF built in.	
Canon BJC70Colour	£299.99
Portable colour printer, 30 page ASF.	
Canon BJ200ex	£229.99
Speed,high quality mono printer, virtual 720 dpi.	
Canon BJC4000Colour	£299.99
High quality colour, super fast mono printing 360 dpi.	
Canon BJC600e Colour	£439.99
New enhanced, dedicated colour printer, virtual 720 dpi.	

HEWLETT PACKARD

HP540 mono	£279.99
Colour upgradeable mono ink jet.	
HP 320/540 Colour Kit	£36.99
HP 660 Colour	£385.99
New colour inkjet from HP.	
New!! HP 5P laser printer	£729.99

EPSON

Epson Stylus colour	£449.99
720 dpi, 180 sheet ASF, Piezo printhead technology.	
New!! Epson Stylus Pro	£799.99
720 x 720 dpi, Colour Ink Jet. Auto Sheet Feeder built in.	

CITIZEN

Citizen printers have a 2 year guarantee

ABC Colour printer	£145.99
simple (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	
Projet II Colour	£249.99
New colour inkjet printer with built in auto sheet feeder	
NEW!! Projet 3 mono	£POA
High quality 720 dpi mono printer, 3 p/pin, 3 year warranty.	

star MICRONICS

Star LC100 9 pin Colour	£121.99
9 pin colour printer, 8 NLQ fonts, 180 cps draft.	
Star LC90 9 pin mono	£102.99
9 pin mono printer, ASF built in, push tractor optional.	
Star LC240 24 pin mono	£117.99
24 pin mono printer, 192 cps draft,with ASF built in.	
Star LC240C 24 pin Colour	£134.99
24 pin colour printer ASF built in, 4 LQ fonts.	
Star SJ144 Colour	£229.99
Stunning affordable colour thermal transfer printer, low running costs, 3 p/pin mono, 1.4 p/pin 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 £199.99

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

PCF 90% BEST BUY 95% PCW

SupraFAXModem V.32bis

This modem has full 14400 baud. includes V.32bis, V.32, V.22bis, V22, 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

New Low Prices

Sportster 288 only £193.99

features V34, 28,800 BPS, BABT approved

bought V32bis was fast try V 34 (28,800 bps).

Sportster 144 £134.99

Amazing price reduction on Courier Dual Standard V34+

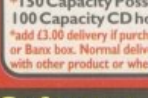
£287.99 Now 33,600 bps.

Disks/Storage

low low Prices

QTY	Bulk DS/DD	Branded
10	£3.49	£4.49
30	£9.99	£11.99
50	£15.99	£18.99
100	£29.99	£35.99
200	£52.99	£63.49
500	£118.99	£142.99
1000	£211.99	£253.99

All disks are guaranteed, All branded disks come with labels



MULTI COLOUR Disk labels 500 £6.99 1000 £9.99

Re-Mark-It disk labels x10	£2.49
10 Capacity box	£0.99
50 Capacity lockable box	£3.99
100 Capacity lockable box	£5.49
*90 Capacity Banx box	£10.99
*150 Capacity Posso box	£20.99
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 High cap.	£28.99
Canon BJC 600e mono High cap.	£10.49
Canon BJC 600e colour	£8.99
HP.Deskjet colour	£26.99
HP. Deskjet double mono	£24.99
HP. Deskjet 660 double mono	£25.99
HP.Deskjet 660 colour	£27.99
Epson Stylus mono	£15.99
Epson Stylus colour	£36.99
Star SJ144 mono/colour (single)	£8.99

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
Epson Stylus 720 dpi paper pack	£22.99

Delivery for 2000 sheets £5.00 when purchased without printer

Printer repair specialists call for quote

Peripherals

Viper II 28 MMU	£145.99
Viper II 40 EC	£189.99
Roboshift MK I	£9.99
New Mega Mouse+	£12.99
Mega Mouse 400 dpi	£11.49
True Mouse 300 dpi	£10.99
Crystal Trackball	£34.99
ZyFi-2 Speakers	£26.99
ZyFi Pro Speakers	£57.99
Amiga Modulator	£34.99
Amiga PSU	£34.99

SPECIAL LIMITED OFFER!! Workbench 2.1 software upgrade only £29.99

Kickstart 2.04	£30.99
Kickstart 2.05 (for use in A600)	£30.99
Fatter Agnes 8375-16	£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

Turbotech realtime clock cartridge £17.99 fits any Amiga

CD ROM Software

THE BIGGEST SELECTION IN THE COUNTRY

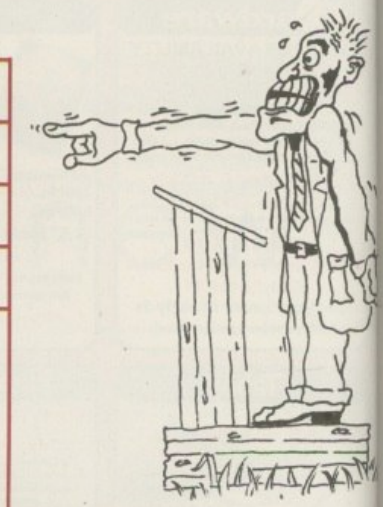
ALL AT THE BEST PRICES...FROM THE NO.1 IN CD-ROM

17 Bit Collection (Double)	£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
Adult Sensations (Over 18's)	£17.99
Aminet 5	£12.49
Aminet 6	£14.49
New!! Aminet 7	£14.49
Aminet collection (Box set 4 CD's)	£24.49
New!! Amos Users CD Ver 2.	£16.99
Animations (Double)	£17.49
Assassins (Double)	£16.99
BCI Net 1	£8.99
BCI Net 2	£17.49
CAM (Double)	£22.49
CD-PD 1	£8.99
CD-PD 2	£8.99
CD-PD 3	£8.99
CD-PD 4	£12.99
Demo CD 1	£8.99
Demo CD 2	£8.99
Euroscene	£12.49
Fractal Universe	£17.49
Fresh Fish 8	£27.49
Gateway	£8.99
GoldFish 1	£24.49
GoldFish 2	£24.49
Grafix Sensations	£17.49
New!! Groliers Encyclopedia	£25.99
Illusions in 3D	£8.99
Light ROM	£29.99
Light Works	£29.99
Magic Illusions	£11.49
Meeting Pearls I	£9.99
Meeting Pearls II	£9.99
MultiMedia ToolKit 2 (2xCD's)	£27.99
Network CD	£12.49
New Price!! Prima CD Vol. 1	£9.99
Professional Gifs	£17.49
Proffessional Utilities	£17.49
Sounds Terrific (Double)	£17.49
Space And Astronomy	£16.99
Spectrum Sensations	£17.49
The Beauty of Chaos	£13.49
New!! Ten on Ten pack (10xCD's)	£35.99
New!! UPD Gold CD (4 x CD's)	£27.99
New!! World Of Pinups	£12.99
WPD Hottest 4	£17.99
WPD Hottest 5	£17.99
Wierd Science Fonts	£8.99
Weird Science Clipart	£8.99
Wierd Science Animation	£16.99
New!! Zoom	£18.99

FREE!! Prima Shareware CD-ROM worth £10 with every order of CD-ROM software over £30

The final version

If Commodore hasn't killed the Amiga, perhaps piracy will. Ben Vost looks at an ever more dangerous problem



Jonathan Potter says he won't carry on. Games publishers say it's the reason they've dropped the Amiga. Big Amiga names like ASDG, Gold Disk, New Horizons and Digital Creations have all dropped below the horizon for one reason or another. It's not necessarily all connected with piracy, but it has to be said that piracy on the Amiga is rife.

Sometimes people use piracy as an excuse because the only way they can get to see a piece of software in these Amiga shop-free days is to get a dodgy copy of it from a friend. This is particularly true of serious software – shops are pretty much guaranteed to be able to sell a £25 game, but a piece of software retailing at £250? They aren't likely to want to take the chance it doesn't sell.

The software companies can get around this to some extent by making more demo versions of their software, limited time versions, save disabled versions, versions where you can only use a tiny area of the screen. It would help people make the decision to buy and would probably result in increased revenue for the company.They will, of course, still have the problem of ensuring a wide distribution of these demo versions, but with magazines panting for new material and the Internet becoming ever more popular, only the insular of companies will find themselves with difficulties.

But the area hit hardest is certainly games. People rip games off left, right and centre. It's not just an Amiga phenomenon – every week in the leisure computing trade mag CTW, some company or other is claiming they have lost millions of dollars (billions in some cases) in revenue owing to piracy. This is sometimes because a pirated version of a game is in some way improved, giving the player endless lives or the ability to install the game onto a hard drive, and I may be in a tiny minority, but I won't buy a game that won't take advantage of extra RAM, processor power or additional floppy drives.

I'm also not keen on games that don't install on a hard drive. Perhaps it's about time games companies looked to the somewhat higher end of the market. After all, who's more likely to buy a game – a person who actively expands their Amiga and is willing to spend money on it, or someone whose only investment has been a joystick?

Escom need to have a concrete software strategy in place. It's all very well getting the hardware back in place, but without companies like ASDG and LucasArts back in the fold, serious and games users of the Amiga may as well give up now and get that Mac or PC. Perhaps, like Microsoft, Escom need to have an in-house software team creating new word processors, games and image processing packages. They could afford to get the best programmers out there, particularly those in the public domain and shareware fields, and really bring some quality software back onto our beloved platform.

Added revenue from software sales could help to bolster R&D budgets, pushing the Amiga back towards the forefront of computer technology – where it belongs and was ten years ago. We are getting faster base level machines with a greater capacity for RAM, and hard drives are becoming more and more commonplace, but there are no staggering advances in the graphics, sound or operating system technology that powers the Amiga.

The operating system could definitely stand a little more game-friendliness. If you give programmers the tools they need to rapidly scroll screens, play back animations, or manipulate bobs in the OS, publishing houses wouldn't need to reinvent the wheel with every game they write. This won't improve the situation vis a vis piracy, but it might attract some of the game publishers back from other platforms where these things are, or will soon be, taken for granted.

So who is this Jonathan Potter? He's the guy that spent the last four years developing Directory Opus, only to threaten to give it all up because his software is available from every pirate BBS in the world. AC

The AC team

EDITOR Paul Austin
DEPUTY EDITOR Ben Vost
ART EDITOR Tym Leckey
NEWS EDITOR Adam Phillips
COVERDISK EDITOR Neil Mohr
PRODUCTION EDITOR Judith Chapman
GAMES EDITOR Tina Hackett
STAFF WRITERS Andrew Maddock, Gareth Lofthouse, Dave Cusick
ADVERTISING MANAGER Simon Lees
AD SALES Jane Normington
AD SALES Sue Horsefield
AD PRODUCTION Barbara Newall
MARKETING MANAGER Claire Mawdsley
MARKETING ASSISTANT Victoria Quinn-Harkin
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 enquries 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 Fall & Rise in Amiga Frame Grabbing...

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

The revolutionary NEW S-VHS ProGrab™ 24RT Plus, with Teletext, is not only the best way to get crisp colour video images into your Amiga, it also costs less than any of its rivals. This real time, PAL-SECAM-NTSC*, 24-Bit colour frame grabber/digitiser has slashed the price of image grabbing on the Amiga, and at the same time has received rave reviews for its ease of use and excellent quality results. ProGrab Plus™ is now S-VHS compatible too! 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 S-VHS or composite output. This could be your camcorder, TV with SCART output, satellite receiver, domestic VCR/player or standard TV signal passing through your VCR/player... the choice is yours.

STAGE 2...

With ProGrab's software, select an image you wish to capture using the on screen preview window - and Grab (because the hardware grabs frames in real time, there's no need for a freeze frame facility on the source device). 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.

ProGrab™... supports all recent Amigas and is also fully AGA Chipset compatible. You can even work in the new graphics modes up to 1472 x 512 pixels in HAM 8 (Amiga RAM permitting). Images can be saved in 24-Bit, 16.7 million colours.

ProGrab™... supports IFF, ILBM, ILBM24, Clipboard, JPEG, BMP, PCX, TIFF, ProGrab™ File or Anim5 File output formats. All these formats can now also be read into ProGrab™ directly too. A range of image processing effects, palette computing routines (AGA only) and dithering methods are also new to ProGrab™ V2.5. Photogenics fully supports ProGrab with a custom 'Loader' to enable grabs directly from within the program - saving YOU time!

ProGrab™... software has built in mono and colour animation facilities. The number of frames is dependant upon your Amiga's RAM.

ProGrab™... Release 2.5 software now includes...
- Support for Virtual Memory... allows the highest resolutions - even with low memory Amigas (all Hard Drive Systems without the need for an MMU, requiring just 1Mb. Hard Drive Space).
- Additional Teletext Facilities... Now available with Terrestrial TV signals too.
- Larger Preview Window... Double resolution & 4 times the area
- International Support... Now works with composite PAL, SECAM and NTSC straight from the box.

For just £129.95

ProGrab™ is supplied with everything you'll need...
- **ProGrab™ 24RT Plus Digitiser**
- **New Version 2.5 Software**
- **Parallel Port Connecting Cable**
- **Mains Power Supply Unit**
- **User Manual**

ProGrabs™ optional PCMCIA Interface can extend performance even more for the serious/professional user.
- **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

Pro GRAB S-VHS 24RT Plus

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"

Now compatible with both VHS and S-VHS!

*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.

For more information or to get **your** hands on the NEW ProGrab Plus™, call our sales line on...

01 773 836781

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

gordon harwood computers
the UK's favourite Amiga Dealer
Gordon Harwood Computers Limited.
New Street, Alfreton, Derbyshire DE55 7BP.
Tel: 01 773 836781 Fax: 01 773 831040

Mr/Mrs/Miss/Ms:	Initial(s):	Surname:
Address:		
County (Country):		Postcode:
Daytime Phone:		Evening Phone:

Please rush me...
- ___ ProGrab Plus™ @ £129.95 inc. p&p £___:___
- ___ PCMCIA Interface @ £29.95 inc. p&p £___:___
- ___ Optional FAST Courier Service Delivery £ 6:95

(Overseas customers - please call for prices etc.) TOTAL £___:___

Existing ProGrab users, Upgrade to Software Version 2.5 @ £4.95 inc. p&p please tick ☐

Card holder's signature:

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

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

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

The CoverD

Amiga Computing brings you another double dose of disks, crammed with the best utilities around

Address your

DFA

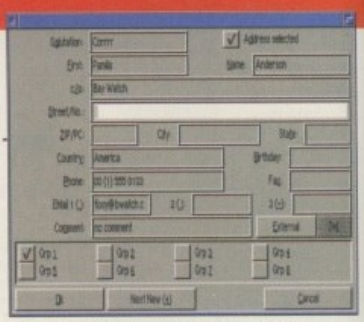
Author: Dirk Federlein
Workbench: 2.04

Everyone has an address book of one sort or another. Generally they are fairly tatty things with plenty of scribbles, corrections, and different hand writing styles. What you need is a program to keep all your loved ones' and friends' addresses and phone numbers stored in a convenient place.

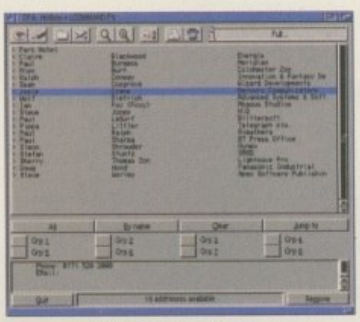
DFA really is the perfect solution. The program is split into a number of smaller parts, so the main executable is small enough to keep in your WBStartup drawer. If you ever need to find someone's address DFA has a AppIcon, so a quick double-click is all that is needed to pop up the main DFA screen with a list view of all the people in your address book.

To install you should really use the provided installer script as it is a little complicated and a number of tool types have to be set correctly. Other than that, it should be quite painless as virtually all the DFA files are held together in a single directory. The first thing you will notice when you run DFA is that is has a very handy tool bar across the top of its window. All the more common commands are accessible via this tool bar. If you are not sure what each icon means, just place the mouse pointer over the relevant icon and its functions will appear in the information box at the top right.

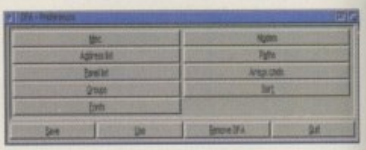
Adding new entries is very straightforward. Click on the New icon, which is the little folder icon. This pops up another window with a number of fields. The form is fairly standard allowing you to enter, among other things, the person's name, address, phone number and up to three e-mail addresses. You can cursor between each field, and each



This is where you enter all you favourite people into your bulging address book



The main DFA window – all your friends and contacts can be grouped and listed from here



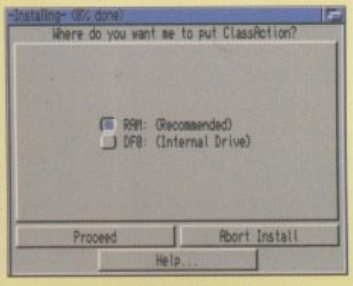
DFA is extremely configurable. Its fonts, window position and appearance can be changed

Extracting CoverDisk files

If you have already booted this month's CoverDisks, you may have noticed a slight change to normal. We are now using Commodore's installer utility to try and make extracting the archives as easy as possible for you.

To extract any single archive, simply double-click its icon and follow the on-screen instructions. If you want to quickly extract the program to RAM, select the NOVICE level on the welcome screen and press proceed once on the current screen, and then again on the next. The program can now be found in your RAM disk.

You also have the option of using a floppy disk. If you pick this option make sure you have a blank formatted disk at the ready, and if you only have one disk get ready for lots of disk swapping and a long wait.



The Amiga installer needs to be told where to extract the files to. Simply click on the appropriate destination

Disks

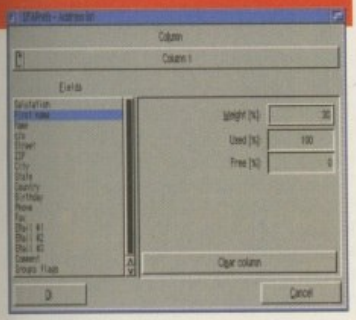
Faulty CoverDisks

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

needs



From here you can change which columns of the address listview display what information

person can be placed in up to eight different groups.

Once you have a few people entered into DFA you can cursor up and down the list on the main window. A selection of their details is displayed in a small window at the bottom, or you can view their entire entry by pressing return or double-clicking.

DFA comes with a fairly comprehensive preference program, along with the fairly normal window positioning and a choice of the fonts it uses. You can change exactly what information is displayed in both the main address listview and also the smaller panel listview that is at the bottom of DFA's window.

A couple of DFA's more unusual features is that it has been designed with network use in mind. Therefore, a number of people can share the same address book over a network without any of the usual read/write conflicts. The other unusual feature is that if you have a modem attached, and then a phone connected to your modem, you can get the computer to phone up a particular person.

DISK 2

epoch Voyager

Author: Jack Pritchard
Workbench: 2.04

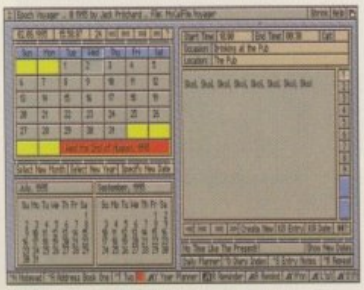
Is your life a mess? Never know what you are meant to be doing next? Always forgetting about loved ones' birthdays, weddings or bar mitzvah? Well, epoch Voyager can help you get back on track.

This is a fully-featured Personal Information Manager, so if anyone asks you know what to tell them. Voyager allows you to store all your coming appointments, special events, deadlines or whatever you need reminding about.

The main screen of Voyager is a diary which allows you to select a specific day from which you can enter a start time, an end time, a category, an occasion, a location and up to nine pages of text. You can also have a daily planner with up to 50 lines of text in each entry.

Whenever you run epoch Voyager, it will check the next seven days to see if you have any entries in your diary. Along with the plain diary, it is possible to add anniversaries so every year you will be warned of impending birthday or wedding anniversaries. Along with these features you can also add simple reminder messages. By entering a date and a +- days amount, you can jog your memory on a daily basis – hopefully never forgetting some important task.

For a wider view of things, a year planner is provided where every day of the year is available. Just click on the appropriate day and all the relevant entries for that day can be viewed. If that was not enough for you, there are two separate address books. It is possible to search between the address book and you diary for any coincidences. Consequently, if you wanted to know what appointments you have with Fred Bloggs, there is no problem.



Keep your life in order, and never miss another date with epoch Voyager

Play16

Author:
Workbench: 2.04

When the Amiga first arrived ten years ago, its custom sound chips were state of the art, and even today the sample quality produced by the Amiga is superior to the PeeC's basic Sound Blaster and Ab lib boards.

The fact that other platforms have realised that people might actually want their computers to make some sound has meant that over the last few years a number of incompatible sample formats have emerged.

Along with the Amiga's own IFF-8SVX format there is Wave, Voice, Sun Audio, Maud, AIFF and not to mention plane raw sample formats – most of which can handle 8 or 16-bits, mono or stereo, and additional sample compression.

Play16 will allow you to play all the above mentioned sample formats and more. There are a number of ways to use Play16, the simplest being to run it and use the file requester to choose a sample. Play16 will then auto detect the sample type and play it.

There are some more advanced options available which can only be accessed from a shell. Two of the more interesting ones it provides include direct Maestro Pro output, if you own such a board, and also that it supports a new sound driver system called Cyber Sound.

PS3M

Author: Jarno Paananen
Workbench: 1.2

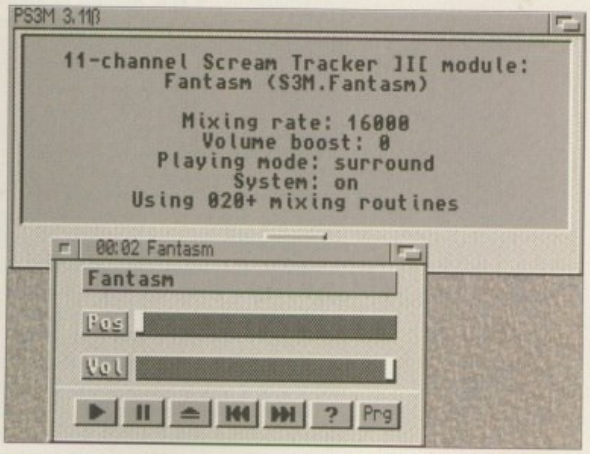
There are more tracker players on the Amiga than fish in the sea. Well that's probably not true, as there are not too many fish left in the sea, but that's what you get for having an unmanaged natural resource.

Anyway back to PS3M – what does it do I hear you cry? Well, it could have been just another typical pro tracker player. But what PS3M does is support the new PC tracker formats, specifically Scream Tracker 3, and the scream tracker file extension is 'S3M', hence the name PS3M.

Even though trackers were invented on the Amiga, the emergence of high-end sound cards for PCs has meant that PC trackers now support up to 32 channels at 16-bit. It might sound impossible for the Amiga to reproduce this feat, but an A1200 with fast memory will happy manage 16 channels at about 24KHz.

One of the interesting features is that you can specify what speed the samples should be played at, and this ranges all the way down to 4KHz – although any thing above 20KHz gives good results. Along with the normal support for Protracker and Scream tracker modules, PS3M will also handle 6-8 channel Fast tracker, 1-32 channel style Protracker, and finally multiTracker modules.

You are not just restricted to the typical mono or stereo sound output either. PS3M has support for fake surround sound, or even real surround sound for all you people with Dolby Prologic decoders, and if that was not enough for you, PS3M can replay at 14-bit quality. A word of warning, however. If you want to use all these features, do not expect to have much processor time left.



PS3M will handle anything up to 32 channels – if your computer can take the strain

Virus Checker

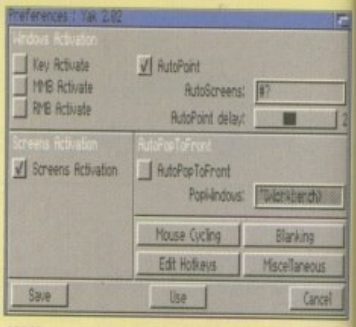
Author: John Veldthuis
Workbench: 1.3

This is another favourite that should reside in everyone's WBStartup drawer. Those nasty viruses are always on the prowl, so a good virus checker is essential. The latest version adds more of the nasty blitters to its armoury, so you will have even more protection than before. Sounds like a good under arm deodorant.

YAK

Author: Gaâl Marziou and Philippe Bastiani
Workbench: 2.04

Yet Another Kommodity, as the man said Yak is another one of those wonderful commodities. Commodore did manage to



YAK maybe another commodity, but it provides plenty of useful functions

Tiff Data Type

Author: Bert. Wynants
Workbench: 3.0

Tiff is a widely-used image format in the computing world, even though it has never really been used on the Amiga – probably because IFF is a good all rounder. It is about time someone did a Tiff data type, because it was about the only major picture format that was not supported by them.

This is compatible with version 6 of the TIFF specs and supports 1,2,3,4,5, 6,7,8,24, and 32-bit depth images along with line art, grey scale, palette images, 24-bit colour RGB, and finally 32-bit colour CMYK.

To get the best out of the data type you really need 2 meg, and a hard drive to store temporary files.

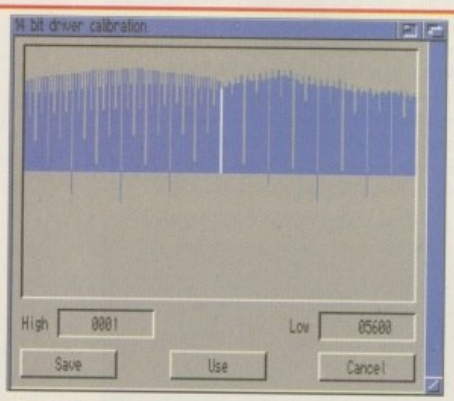
Cyber Sound

Author: Christian Buchner
Workbench: 2.04

If you want to use the 14-bit output of Play16 you are going to need the Cyber Sound device, and being the nice chaps and chappesses that we are, here it is. Cyber Sound allows your Amiga to produce sound output at 14-bit quality, at speeds of up to 60KHz, depending on what system you have. The drawback is that it requires more processor power and is only really usable with an 020.

This miraculous feat is achieved by mixing two channels, one playing at maximum volume, the other at minimum – so producing a stereo output uses all four channels. The end result is that playing a 16-bit sample produces a lot less 'hiss' than the normal way of cropping it down to 8-bits.

To get the best results, a calibration preference program is provided. This allows you to test the Amiga's sound chips over its entire sound range, and lets Cyber Sound accommodate the slight variations that exist in all Amiga sound chips. Doing the calibration will allow Cyber Sound to produce the best output quality possible.



The Cyber Sound calibration allows you to fine tune the 14-bit replay

PNG Data Type

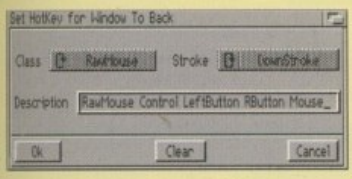
Author: Cloanto®
Workbench: 3.0

Yes, its another data type, and for a file format you may never of heard about. This is going to be a very important file format in the future because if you did not know,

PNG is the best lossless picture format around

do a couple of things right after all.

Yak has been around for a good while now and works along the lines of MultiCX. It provides lots of useful little additions to Workbench. The main part of Yak gives you better control over your windows. You have all the usual click to font/back and screen cycling, along with a very comprehensive hot key function which allows you to more or less assign any type of function to a certain key combination – such as Execute a CLI Command or an ARexx script, Insert text, Insert date, Close/Zip/Shrink/Enlarge windows, Move/Cycle screens and windows, Activate Workbench, Blank display, Pop up a palette, or add a Menu shortcut,



like using right Amiga d for delete. One of the neat features of Yak is the way you define your hot keys or mouse presses. All you do is press the key combinations or mouse buttons you want, and violà, the hot key definition is automatically produced for you. This is very handy, especially for some of the more complicated mouse button combinations, such as left button double right.

Lupe

Author: Frank Toepper
Workbench: 3.0

If you knew any French or German, you would already know what Lupe does. It is a magnifying glass which will jump onto any public screen and has adjustable zoom, all the way to 20x. It may not sound much more than a little toy, but they do come in useful for positioning icons or magnifying parts of pictures.

Look there, there's a pixel out of place. What do mean you can't tell?

Unisys started charging people for the use of the Lzw compression algorithms. This meant that anyone writing a program that could read or write GIF files would have to pay royalties.

This rightly angered a lot of people, as GIF is one of the widest used file formats. So Compuserve got a group of smart programmers together who went about creating a new improved, son of GIF file format.

PNG is the fruit of their labours. It has a large number of features such as support of true colour depths of up to 48-bits, and alpha channels. One of the most important is that PNG is thought to be completely royalty free, so hopefully can be freely used by one and all.

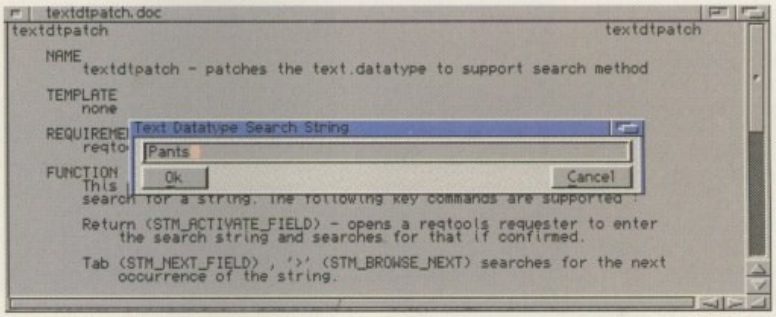
The PNG data type is by those lovely people at Cloanto, and it supports all parts of the PNG format. At the moment, the only PNG image you may have is the test.png that came with the archive. However, this format will gain a lot of support – Image Studio and Person Paint already have external loaders that allow them to read and write PNG files, and more programs will follow.

So install the data type and help PNG become the defacto loss less image format.

Text Data Type Patch

Author: Stefan Ruppert
Workbench: 3.0

This is fairly straightforward and basically adds extra functions to the Amiga's Text data type. Whenever you read a document using Amiga guide or Multiview, pressing return will pop up a text requester, into which you can enter words to search for. Using tab, you can then search forwards, and shift and tab will



A search facility is a welcome addition to MultiView

search backwards.

To get the patch to work insert the line:

```
run >nil: c:textdtpatch
```

into your s:user-startup file, and copy textdtpatch into the C: directory.

FMS

Author: Matt Dillion
Workbench: 1.3

Another tiny utility for hard drive users, or for someone with a few megs of RAM. This allows you to create a virtual disk drive on a hard drive partition. Therefore you get a disk drive that can be accessed almost as fast as a hard drive. For people like ourselves who are compiling disks, this is an absolute god send, as you are completely unburdened from the drudgery of waiting for the disk drive to copy or run files.

It also makes it possible to DMS straight to the hard drive, so if you have a CD full of DMS files, you can go through them in a fraction of the time compared to using a floppy drive.

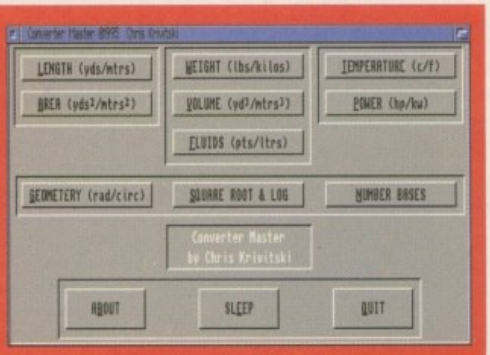
AC

Converter Master

Chris Krivitski
Workbench: 2.04

This is one of those little utilities where you think, why would any one need that? Then about two weeks later you will find yourself throwing half the stuff off your desk trying to find a copy of it.

Converter Master will convert between all the more common measurement scales, such as Celsius and Fahrenheit, feet and meters. All you do is select the type of measurement you wish to convert and enter the value into the appropriate box. All the other values in that category will then instantly be displayed.



Converter master will handle all the normal measurement conversions

Personal Paint 6.3

Now that you've had a chance to play around with Personal Paint 4 on our coverdisk, why not upgrade to the latest version?
Available for only £39.95 on disk or even better value CD-ROM, Personal Paint v6.3 is a powerful and intuitive paint, image processing, animation and 24-bit printing package.

Animation Features: Storyboard, Superior Compression, Multiple Palettes, Frame-by-Frame Timing...

Features of Personal Paint 6.3 include

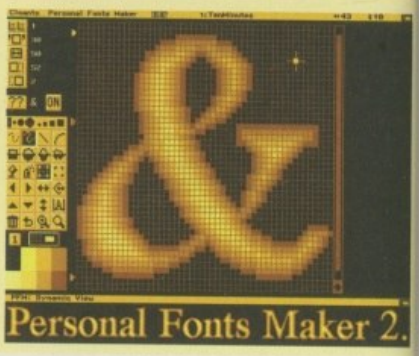
- Animation (featuring storyboarding, superior compression, multiple palettes, frame-by-frame timing, ANIM-5/7/8 and hybrid formats, etc.)
- New, faster image processing effects, including transparency, alpha channel and single-image stereograms (both SIRDS and custom pattern stereograms, as in 'Magic Eye')
- Sophisticated 'behind the scenes' memory management, including virtual memory (swaps inactive image data to Fast RAM and disk storage) and multiple levels of undo and redo
- First paint program worldwide to support the new PNG (Portable Network Graphics) file format. Includes an ARexx script to convert GIFs to PNG.
- Support of Retargettable Graphics (display cards like the Picasso, Retina, Piccolo, Rainbow, EGS, Talon, Cybergraphics etc.)
- Animation on RTG display cards (with or without double-buffering)
- Direct, high-quality 24-bit printing (Colour and Black & White) and interface to third-party software such as Studio Print Server

- Professional and fast modes for converting 24-bit pictures (IFF, PNG, PCX, PBM etc.) to 256 colours or less
- HAM, HAM8 and Picasso 24-bit viewer active during colour reduction
- External input/output modules (loaders and savers) for easy extensions and upgrades. Modules for IFF, PNG, PCX, PBM, Amiga DataTypes and several others are included. A GIF module is available from public domain sources.
- Support and editing of IFF, PNG and GIF project annotations (Author, Copyright and Comment fields, plus Amiga filenotes)
- Autoscroll painting
- Workbench application icon (drag and drop)
- Basic set of ARexx commands for presentations, format conversions and printing
- ASL-compatible file requester
- More power through machine language code: the software is, in part, up to 500 per cent faster
- 'New Look' user interface
- A collection of utilities, including colour fonts, new DeskJet printer drivers (up to four inks) and Jpeg DataType

Cloanto Personal Suite 6.3 CD-ROM

On CD-ROM:

- Personal Paint 6.3 + gallery of pictures and animations, stereograms and stereo animations, fonts
- Personal Fonts Maker 1 (for Amiga and Printer Fonts) + dozens of printer downloadable fonts
- Personal Fonts Maker 2 (professional version for colour fonts) + dozens of professional colour fonts
- Personal Write 4 + Electronic versions of famous books



This offer is only valid for three months, so order now while stocks last. Send your completed order form to: Personal Paint 6.3 Offer, IDG Media, Media House, Adlington Park, Macclesfield SK10 4NP.

Personal Paint 6.3 order form

Please rush me:

☐ Personal Paint 6.3 at the bargain price of £39.95 (including VAT and p&p) – saving £10 off RRP

☐ Personal Suite CD-Rom at the bargain price of £39.95 (including VAT and p&p) – saving £10 off RRP

Deliver to:

Name (Mr/Mrs/Ms/Miss) _____

Address _____

_____

Postcode _____ Daytime phone _____

I wish to pay by:

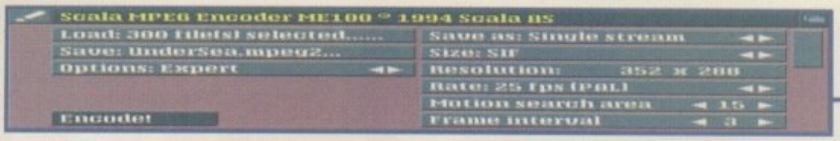
☐ Cheque/postal order payable to IDG Media

☐ Credit card

Card No. ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ Expiry Date ☐☐/☐☐

Please allow 28 days for delivery while stocks last

☐ *Tick this box if you do not wish to receive promotional material from other companies*

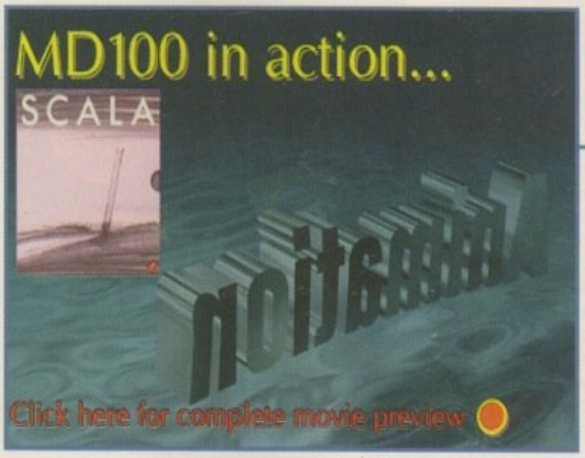


All the options you need to customise your creations

Full screen or in a window, Mpeg import has all the options, if perhaps a little slow to implement

DV on the desktop

Paul Austin explores video on demand – Scala style



All the usual Scala goodies plus full frame digital video, impressive by any standard, and only 1.1Mb to store the entire 300 frame animation

For the majority of Amiga users Mpeg is generally perceived as nothing more than a rough and jerky anim format. But as the CD32 has already proven, full-screen real-time digital video is well within the reach of the Amiga, offering a cost, storage and transfer time-effective means of delivering digital video at or about composite quality.

Not surprisingly, Scala haven't wasted any time in recognising Mpeg's potential for presentation. As a result, the Scandinavian multimedia men have fine tuned the Amiga's only dedicated Mpeg encoding and decoding card for direct application within Info Channel, MM300 and their latest creation MM400.

Although originally known as the Peggy card, the same hardware has now been reincarnated as the MD100, complete with stylish packaging and a degree of ease of use within both the controls and utilities that have made Scala a multimedia giant. The main reason for incorporating hardware directly into a primarily software-based system is, of course, to minimise the demand for even more hardware. At present the expense and hassle involved in incorporating traditional video into multimedia productions simply doesn't make it an option for most multimedia productions.

PROVISIONS

In the past, Scala offered provision for incorporating traditional video and even laser disks into presentations via their EX standard. However, both methods had their limitation. Laser disks offer little in the way of interaction as well as being very difficult to master. Traditional tape offers many of the same problems plus the evils of hardware maintenance, slow interaction and, of course, degradation of the tape.

With the arrival of the MD100, Scala finally has full frame or partial digital video that will never degrade, unlimited video clips with no tape swapping, hardware that is unlikely to need any maintenance, and it's all in one box.

Once the hardware is firmly entrenched in the Amiga's video slot and the appropriate cable linked either to a composite video, S-VHS, or RGB outputs, plus an Mpeg audio out on the rear of the board, you effectively have a traditional genlocked video single directly beneath the Scala presentation. Unfortunately as it stands, Mpeg audio is only available via pre-recorded Mpeg movies, primarily from CD – CDs being supported directly in the control software. As a result, direct encoding Mpeg video is the only option, although audio accompaniment is still available thanks to Scala's sample and mod playing abilities.

The ability to connect up to such a wide variety of display media is a real bonus, and should provide enough scope for pretty much any production. Obviously, quality Mpeg streams doesn't exactly grow on trees. As a result, after initial set-up, encoding an Mpeg animation is likely to be the first step.

Assuming you've installed the Mpeg EX software in the Scala start-up drawer, a quick trip to the system menu will reveal the encoding side of MD100. From here you simply select a sequence of frames to import and where to save the new Mpeg file, adjust the resolution and setting as required, and click on encode. Now it's time to make lots of coffee.

Although the end results are impressive, it must be said that encoding is a slow process. The example 300 frame anim listed took roughly an hour and a half to encode from full video-res frames. Originally exported from a PAR card, they were then scaled and converted into the Mpeg format and resolution.

Slow import and the lack of real-time capture is perhaps the only chink in MM100's armour. Unless you're lucky enough to have either a PAR card or a VLab Motion, your Mpeg productions are likely to be limited to traditional computer graphic animations. After selecting an existing Mpeg or creating your own, its addition to the production simply means clicking on the newly acquired Mpeg box in Scala's main layout.

A quick click reveals the Mpeg decoder controller, and it's from here you can control the Mpeg action. The first step is to select the file, at which point you're provided with an impressive array of customising options.

As you can see from the screen grab you can play and pause, add a definable or infinite loop, apply definable slow-motion, and even make the Mpeg wait when you hit the appropriate point in the production. Tape deck transport controls allow instant scans of the Mpeg stream and once you're happy, a simple OK adds the Mpeg and play settings to the production.

During testing I had at least five separate Mpegs, combined with mods, samples, wipes and all the other Scala classics with no appreciable drop in overall performance.

Roll the credits

Needless to say, MD100 is a product dedicated to serious multimedia production, and if you're looking for the ultimate in Scala impact it's arguably the ultimate addition. Full frame genlocked 24-bit video at 25 fps, amidst all the other goodies that Scala can throw into the action –it has to be tempting for animators and multimedia types alike.

AC

SYSTEM ESSENTIALS
RED = Essential **BLACK** = Recommended

Zorro video slot

The bottom line

Product: MD100 Mpeg encode/decode
Supplier: Scala UK Ltd
Price: £599
Tel: 01920 444294

Ease of use	**9**
Implementation	**8**
Value for money	**8**
Overall	**8**

laser gu

Zoom

A joint project from Active Software and Ground Zero, Zoom is a new release that claims to feature their best PD from over the past six months. It distinguishes itself from other general collections, however, by an impressive looking interface that promises the sort of ease of use that Amiga CD needs.

When it comes to the crunch, however, Zoom fails to beat the Aminet CDs that have set the standards in accessibility. One major reason for this is that most (if not all) of the files are archived using DMS, which means they have to be extracted on to floppy disks.

In practice this means that when it comes to using the file you've extracted you have to leave the interface and go to the workbench. Though this is not really much of a problem with files that fit on one floppy, it becomes off-putting when dealing with larger programs – especially since it's impossible to know which are worth the effort.

EXTRACTION

In contrast, Aminet predominately features LHA files which require less trouble to extract. This weakness on Zoom's part is a shame because in other respects the package works very well. It's large contents summary box is one good idea, for example, that would make a welcome addition to other collections in the future.

Unfortunately, the actual contents aren't on a par either. There are huge amounts of babe pictures padding the CD out, and though these are obviously popular sellers, they're of little use for anything computer related. Games take up a significant proportion of the disk, with around 70 card sets for use with Klondike III patience included as part of the collection. Considering the amount of space available on CD, it would have been nice if these hadn't been compressed so they could have all been used directly from CD.

More serious users will at least find some interest in the Ground Zero Imagine 3D collection, and there's also some 20Mb's worth of Magic WB data to choose from. DTP users will find the addition of themed mono clipart another worthwhile addition.

What finally undermines Zoom, however, is the fact that despite its competent interface, the disk contents have not been organised into helpful categories. In fairness, the CD's fun emphasis and colourful front-end do make a welcome change, but the flaws mean it doesn't make the top league.

The bottom line

Product: Zoom
Price: £19.99
Supplier: Active Software
Tel: 0117 9741462

Ease of use	7
Implementation	7
Value for money	8
Overall	7

Giga Graphics

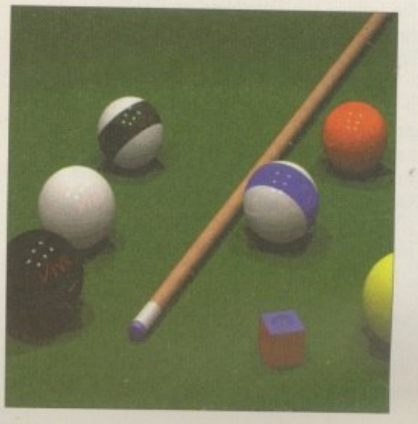
Image collections on CD have been popular from the outset, but Giga Graphics gains an instant edge by virtue of its sheer size. For just over £30, the package comprises of four CDs packed with more than 10,000 pictures plus a few handy utilities to allow buyers to make the most of its contents.

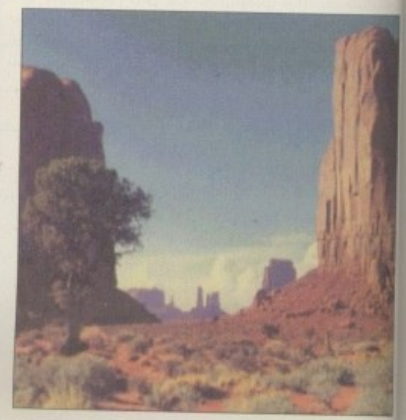
Considering there's over 2Gb of information here to search through, it was to be hoped that there would be proper categorisation of the images. It's unfortunate, then, that the images are simply organised alphabetically, which as usual makes for an almost hopeless mix-up of subject matter.

To give an idea of the problem, out of one of the randomly chosen 'C' drawers came these pictures which followed one after the other: a fantasy painting of a woman, Captain Kirk from Star Trek, Capital Hill and a rendered car. In other words, finding what you want isn't always easy; on the other hand, guessing why some of the pictures are in a particular location makes for an entertaining game when bored.

Thankfully, the collection is largely redeemed by the inclusion of a thumbnail preview catalogue, so though the pictures are rather jumbled, at least skimming through the disc contents is greatly speeded up.

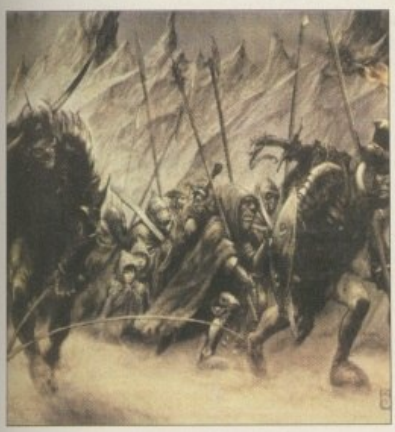
Given the product's size, a fair assessment of all the contents is impossible in the space available. However, it quickly becomes clear that the breadth of subject matter covered is very wide ranging indeed. Whereas many collections have concentrated too much on





idance

Gareth Lofthouse returns with our regular CD column. This month yields the latest general collection plus a huge graphics collection and a dusted off multimedia encyclopaedia



science fiction in an area which is already overpopulated with the same Star Trek and Babylon 5 pictures, this collection is more like a general image bank.

All the standard fare is included, but fortunately there are many other fields to choose from. Pictures of supermodels and swimsuits do, however, crop up all over the place, but at least there's some fair play thanks to the inclusion of a number of muscle-bound hunks as well.

Cars, trains, space, planes – as you'd expect, there's an abundance of material to keep the most avaricious anorak happy. But there's also a great deal of useful material too. Sunsets, world locations and landscapes are available in huge quantities and often the quality of the photography is high. Similarly, close-ups of roses and flowers could be put to a number of different uses.

PROS AND CONS

There are numerous painted backgrounds available, while photographs of stones, bricks and other textures are there for 3D fans to wrap onto their objects. Considering the size of the collection, LightWave and Imagine users may be disappointed to find it lacks any actual models; in my view, however, the collection benefits by concentrating on being a definitive 2D image bank.

Flags, famous album covers, military equipment, ray-traced – the list goes on and on, and only occasionally does the quality drop to below average. Fans of fantasy artist Boris Vallejo will be pleased to see a huge amount of his arguably pornographic but certainly talented paintings covering a sizeable section of the first CD.

One further complaint does need raising however, that being the amount of image duplication in the collection. In fact, the Vallejo collection is a good case in point, with the same pictures cropping up three or four times in close proximity.

The images are generally in IFF format. In addition to all the pictures, Viewtek has been included so that everything required to look at the images is included with the package. The inclusion of Personal Paint is also welcome, since users will be able to load up images and work on them.

It's a shame, then, that it's an untranslated German version, making it difficult to use for the majority of us. The slapdash way in which some things are thrown onto some CD collections – and this is not an unusual example – does not bode well for the Amiga's future CD market.

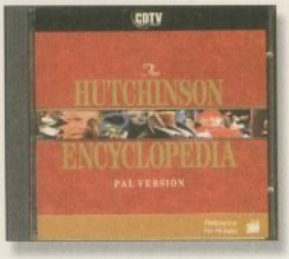
So overall, Giga Graphics is not short of flaws. Anyone who can find uses for a wide range of imagery, however, cannot help but be impressed by the value for money such a huge and far reaching collection offers. In short, it's should make a worthwhile buy.

The bottom line

Product: Giga Graphics
Price: £32.99
Supplier: Active Software
Tel: 0117 9741462

Ease of use	8
Implementation	8
Value for money	9
Overall	8

The Hutchinson Encyclopaedia



The appeal of having an entire encyclopaedia stored on a single compact disc is obvious, so it's no surprise that many suppliers are selling out of the Grolier CD reviewed a few months back. In its place, the equally old Hutchinson electronic encyclopaedia has resurfaced, so we decided to see how well it's stood the test of time.

Though it was originally designed for use with the CDTV, most new purchasers are likely to be using emulation software on their A1200s, so it's good that Epic have included alternative keyboard controls. Unfortunately, however, this is not enough to overcome every compatibility problem. For example, though the instructions stressed that it was essential to boot from the disc, this proved to be impossible using our Squirrel. We did manage to run it from workbench, but the text appeared in such a small font it was difficult to read – on the CD32 the articles are much more readable.

There are also problems using the encyclopaedia because the A1200 lacks a control pad, and navigating the interface requires combinations of Amiga keys, ALT keys and the cursor arrows. Sometimes users can get stuck in one article and it's not at all clear how to get back to the main menu.

Basically, this makes it impossible to recommend for Squirrel users, but it does seem to work perfectly well on the CD32. With over 25,000 entries plus pictures and soundclips, for those who own the console the Hutchinson CD still sounds like a worthwhile product.

In comparison to the Electronic Grolier, however, The Hutchinson doesn't seem to work so well. The first problem is the peculiarly flickery screen which makes using the disc painful on the eye.

Though there are 2000 photographs and 250 sound clips, they are sparsely distributed among all the plain text articles. Considering this is supposed to be a multimedia product, the information is often blandly presented to the point where most people would rather use the traditional paper version.

With searching tools that also seem inferior to the Grolier, this CD unfortunately doesn't cut it in the modern multimedia age. It's only its price, plus the fact that the Grolier is hard to get, that makes it even worth considering these days.

The bottom line

Product: Hutchinson Encyclopaedia CD
Price: £14.99
Supplier: Epic Software
Tel: 01793 490988

Ease of use	7
Implementation	5
Value for money	7
Overall	6

World of Clipart

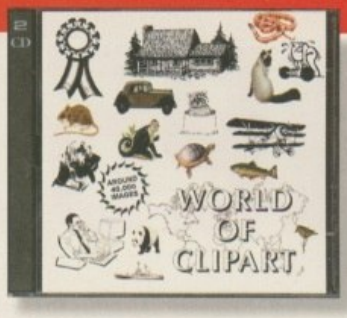
Desktop publishing is no longer the sole preserve of people who can afford expensive packages like Pagestream 3, with word processors now offering drawing tools and the option to import pictures as standard.

PD collections have always been a good source of clip art, but finding the right material to suit your documents and, equally importantly, your printer, was not always easy. A CD with over 40,000 mono and colour images therefore holds an instant and obvious attraction.

World of Clipart is particularly large thanks to the fact it's spread across two CDs, and there's a huge and diverse range of subject matter to choose from. Furthermore, the material appears to have been well selected to suit the bulletins, pamphlets, fanzines and newsletters the CD will probably be most used for.

There are large drawers dedicated to business and education, for example, as well as general symbols that will be useful for just about anybody. There's also work for computer and technology categories which should please those who want to write about their Amigas as well as use them.

Natural world drawings are always popular in clip art collections and unsurprisingly, this CD has a good range of dog, cat, insect and sealife pictures to choose from. Transport, Christmas and people are categories that are similarly well represented. Pictures range greatly



in size, with some of them only suitable for printing in a very small scale. Others, however, are about five times larger than your Amiga's display, making them suitable for large scale use with printers boasting high DPIs.

The standard of many of the drawings is exceptionally high, with a lot less hit-and-miss quality control than some of the product's rivals. Some of the images are highly accurate and detailed, but the inclusion of well drawn but simpler pictures and charicatures proves equally important.

WIDE SCOPE

For those who want to print in colour there's also a huge number of colour pictures covering almost as many categories, and once again the quality remains high. In terms of breadth of coverage, therefore, World of Clipart is hard to fault.

So far so good, but unfortunately there are a few complaints that have to be raised. Categorisations into drawers has been done consistently, but the actual file names are inexcusably unhelpful. With only numbers distinguishing each individual picture, finding the right picture can be unnecessarily time consuming. It was also strange to find pictures in the IFF drawer had bits missing for some reason.

Of course the CD is padded out by duplicating images in just about every image format available, but this is a plus point when it comes to flexibility. What's more, a program called Transition has been included to allow Amiga owners to convert file formats.

The odd flaw aside, this is a high value, high-quality collection that beats any of the competition I've yet seen. Useful for just about anybody, World of Clipart comes recommended.

The bottom line

Product: World of Clipart
Price: £19.99
Supplier: Epic
Tel: 01793 490988

Ease of use	**7**
Implementation	**8**
Value for money	**9**
Overall	**8**

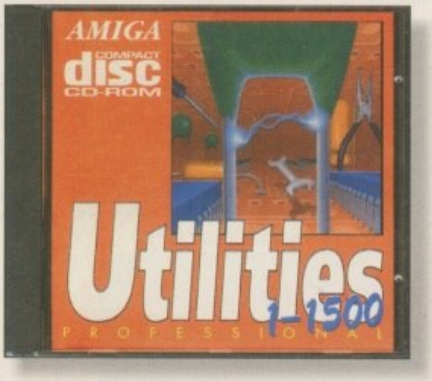
Utilities professional

There are some Amiga users that have absolutely no time for games. As a recent survey proved, the inclusion of the smallest PD shoot-'em-up on the cover disks will have some people criticising what they see as a waste of space.

Such serious users might therefore sit up at the prospect of a dedicated utilities CD, and that's exactly what this PDSoft product is about. Business software, graphics production, hard drive tools, virus killers, DTV – you name it, if it's anything to do with productivity computing it's here on the disk.

The CD has been around for a while now, however, and in some ways it's beginning to look rather dated. In terms of organisation, it really is a pain to use in just about every way imaginable.

Basically, the CD consists of 1500 floppies worth of files and programs transferred onto disc. Searching through the drawers just brings up thousands of identical, nameless icons with no clue to their contents. This means you have to go to the alphabetic directory in a separate text file, seek out items of interest, and then take a note of the relevant disk number. Even the numbers on the program drawers are made peculiarly difficult to read. It's another bunch of DMS programs



as well, which leads to the same slow transfer on to floppy you get with Zoom. It's worse here because you have even less of an idea of what you're going to get in the end.

This is all a bit of a shame since many of the contents will please the more serious Amiga users out there. On the educational side, there's a Language Tutor that provides an effective vocabulary tester for French, German and Spanish. For video there's a titler program, for music there are the usual PD music editors plus a collection of reasonable quality sound samples to expand your repertoire. Databases, sports selectors and disks for HAM radio enthusiasts give an idea of how much material is available.

Frankly, however, I just couldn't be bothered spending hours trying to find the good stuff. This one is reserved purely for the most patient of the tecchies.

The bottom line

Product: Utilities Professional
Price: £19.99
Supplier: PDSoft
Tel: 01702 466933

Ease of use	**4**
Implementation	**6**
Value for money	**7**
Overall	**6**

Emerald Creative Technology

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

Hardware

Video

Squirrel SCSI interface	£59.95
Pro Grab 24RT SHVS New Version	£125.95
24 Bit Real-Time Colour Frame Grabbing	
Rendale 8802 Genlock	£159.95
Rendale 9402 SVHS	£279.95
Vidi Amiga 12 AGA	£64.95
Vidi 24 RT	£149.95
Vidi 24 Pro RT	£209.95

Ram Cards

A500 with 0.5Mb	£14.95
A500+ with 1Mb	£19.95
A600 with 1Mb	£24.95
A600 with 1Mb & clock	£32.95
A1200 unpopulated	£59.95
A1200 with 2Mb	£129.95
A1200 with 4Mb	£179.95
A1200 with 8Mb	£299.95

Modems

X-Link 14.4k Fax & Data Modem	£129.95
X-Link 28.8k Fax & Data Modem	£232.95
X-Link 14.4k Modem with GP Fax	£169.95
X-Link 28.8k Modem with GP Fax	£272.95

All Modems Are BT Approved

Disk Drives

A500 Internal Floppy Drive	£35.95
A600 & A1200 Internal Floppy Drive	£38.95
Quad Speed CD Rom Drive for A600 & A1200 with SCSI Interface	£299.95
2.5" 340Mb Internal IDE Hard drive for A1200 and A600	£169.95
2.5" 510Mb Internal IDE Hard drive for A1200 and A600	£249.95
2.5" IDE Cable	£8.95

All Hard Drives Come With Installation Software

Other

High Quality 24 Bit Real-Time Frame Grabber	
Naksha Greyscale Hand Scanner for Amiga 500 and 500+	£59.95
Tabby Graphics Tablet	£57.95
A5 Graphics Tablet	
Video Backup System + Phono cable	£54.95
Video Back-up System + Scart cable	£57.95

Music

Bars&Pipes Pro v2.5	£199.95
Upgrade - v2 to v2.5	£79.95
Upgrade - coverdisk to v2.5	£149.95
Internal Sounds Kit	£24.99
Multimedia Toolkit	£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
Deluxe Music 2	£69.95
Megalosound Sampler	£23.95
Music X 2	£49.95
Pro Midi Interface	£19.95
Technosound Turbo 2 Pro New	£25.95

For a limited period only we're offering **Music X v2** and a **Microdeal Pro Midi interface** for just **£64.95**, a saving of £5 over the usual prices !

Offer Bars & Pipes v1 Manuals - the perfect companion for your cover disk ! Just £29.95 Offer

The Home Office

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

Databases

Datanexus New	£24.95
Digita Datastore	£45.95
Digita Organiser New	£39.95
Final Data New	£39.95
Twist 2	£89.95
GB Route Plus	£31.95
Mailshot Plus	£35.95
Music Librarian	£22.95
Plants For All Seasons	£22.95

Spreadsheets

Final Calc	£please call
Turbocalc 2	£49.95

Finance

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

Amiga CD Roms

Speccy Sensation 2 New	£18.95
Aminet 1-4 4 CD pack	£24.95
Aminet 5	£14.95
Aminet 6 New	£14.95
Desktop Video CD	£13.95
Essential Utilities vol 1 CD	£8.95
Giga Graphics 4 CD pack	£38.95
Grolier Encyclopedia CD	£28.95
GFX Sensation CD	£18.95
Lightworks by Tobias Richter CD	£38.95
Star Trek Multimedia CD	£26.95
Arcade Classics CD	£9.95
World of Clipart Double CD	£16.95
Multimedia Toolkit CD	£27.95
Makin' Music New	£24.95
Ten on Ten New	£39.95

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

VRL Bundle Packs - New Lower Prices
Vista Pro or Lite ,Distant Suns, Makepath + Terraform now £54.95
Vista Pro or Lite, Makepath + Terraform £35.95

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
Secrets of Sim City 2000 New	£9.95
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
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

Graphics

Imagine 3
Rolling Upgrade program Includes Imagine 3.1 to 4 ! You must have Imagine 3 to qualify. 3.1 - 3.3 in stock now.
£99.95

3D & Rendering

Vista Pro 3.0	£27.95
Vista Lite	£24.95
Makepath for Vista	£9.95
Terraform for Vista	£9.95
Imagine 3.0	£99.95
Caligari 24	£89.95
Caligari Broadcast v3.1	£249.99
Essence vol 1 + Forge	£79.95
Essence vol 2 + Forge	£79.95
Pixel 3D Pro II	£94.95
Real 3D Classic	£59.95
Real 3D v3 New	£319.95
Real 3D 2.4 to 3 upgrade	£166.95

Image Processing

Art Department Professional v2.5	£139.00
AD Pro Conversion Pack	£59.99
ASDG GT6500 Scanner Software	£89.95
ASDG Pro Control	£50.95
Morph Plus	£129.95
Naksha Hand Scanner	£69.95
400 dpi mono hand scanner for A500 & A500+	
Image FX 2 (AF 95% !!!)	£184.95

CAD

X-CAD 2000 New Lower Price	£22.95
X-CAD 3000	£119.95

Painting

Pro Vector 3 New	£174.95
Pro quality structured drawing package	
DPaint 5	£59.95
DPaint 4.1	£54.95
Personal Paint 6.3 New Version	£49.95
Photogenics	£49.95
TV Paint 3	£329.95
Brilliance 2	£45.95

Utilities

Disk Utilities

AmiFileSafe Single User Version New	£28.95
DirWork 2	£29.95
Directory Opus 5	£49.95
Disk Expander	£29.95
Gigamem	£47.95
Infonexus New	£25.95
Video Back-up System Phono	£54.95
Video Back-up System Scart	£57.95
XCopy Pro	£19.95

Communications

GP Fax	£44.95
Termite	£31.95

Software Development

Gamesmith	£84.95
Dice C Compiler New	£98.95
Cygnus Ed Pro 3.5	£59.95
DevPac 3	£51.95
Hisoft BASIC 2	£54.95
Intos	£25.95
Hisoft Pascal	£74.95

Miscellaneous

Maxxon Magic	£23.95
Studio II Print Manager New	£48.95

Video & Multimedia

Distant Suns 5.0	£27.95
Big Alternative Scroller 2	£49.95
Can Do 3	£229.95
Media Point v3	£249.95
Montage 24	£259.95
Scala HT100	£49.95
Scala MM211 New Lower Price	£94.95
Scala MM300 New Lower Price	219.95
Scala MM400	£249.95
Scala Echo EE100	£139.95
Scala MM400+EE100 Save £40 !	£349.95

How To Order

- **All Prices Include VAT**
- **Overseas Orders Welcome**
- **Educational Purchase Orders Welcome**

When ordering please don't forget to include the carriage charges ! Charges within the UK are

- £3.50 for first class post (which usually arrives the next day).
- £5.50 for next-day courier within the UK mainland, subject to availability. Please ask for overseas pricing, and pricing for islands & Scottish Highlands.

You can pay by :

Cheque : Please make cheques payable to Emerald Creative Technology Ltd.

Credit Card : Visa, Mastercard, Access, Delta, Switch and American Express. We only bill your card when we despatch the order, not before.

All pricing includes VAT but not carriage. We reserve the right to change prices - you will be informed of any change when you order. All special offers are for limited periods only and are subject to availability of stock. Faulty goods will be replaced or repaired if returned within 30 days of purchase. We will refund if we can't repair the goods. It is the responsibility of the customer to check for compatibility of a particular product with existing equipment before buying. E&OE

VISA MasterCard SWITCH

Call Our Sales Hotline On 0181-715 8866

V12-PD

10 PD DISKS FOR ONLY A FIVER FROM 6000+ TITLES!!!

Dept AC2
PO Box 14
Louth
Lincolnshire
LN11 8LF
01507 450114

V12 now offer Digitizing in 2 Colour to HAM 8 and Sound Sampling from 5000 to 57000 sps rate! Yes, we're actually working for a living and not just being lazy! Yearly Membership and discounts now available!

BLANK DISKS AT £2.50 FOR 10, FROM 17P IN BULK. ONE FOR ONE GUARANTEE.

ONE DAY, A MAN WAS BORN. SMALL AND UNIMPORTANT TO THE WORLD, HE MEANT NOTHING. HE MET UP WITH ANOTHER BOY AND GIRL, AND THEY GREW UP INTO (DRUM ROLL!) V12-PD!!! A SIMPLE, BUT BIG MESSAGE TO EVERYONE WHO SAID PD AT 50P A DISK COULDN'T BE DONE. WE'RE STILL HERE AND WE'RE NOT GOING AWAY!

WHAT MAKES US SPECIAL? WELL, OUR PRICES FOR A START.

1-5 DISKS – 65P EACH
6-9 DISKS – 60P EACH
10+ DISKS – 50P EACH
P+P IS 50P ON ANY SIZE ORDER!

WHAT ELSE? OK, IF YOU WANT MORE, OUR CATDISK. IT'S ALL WRITTEN FROM SCRATCH, NO SIMPLE CUT AND PASTE OF ANOTHER CATDISK FOR US. IT'S GOT, 6000+ TITLES IN IT. IT'S ONLY 50P, WHICH IS REFUNDED ON YOUR FIRST ORDER. BUT, FOR 50P, YOU GET 2 DISKS OF CATALOGUE, 4 FREE PIECES OF PD SOFTWARE MINIMUM (DIFFERENT EACH MONTH), HUMOUR AND LIGHT ENTERTAINMENT FUNNIER THAN MR FUNNY ON HIS MOST FUNNY DAY.

THERE'S NO NEED TO SPEND £1, LET ALONE £2+ ON PD ANYMORE. WE HAVE EVERYTHING YOU WANT, AND IF WE HAVEN'T GOT A SPECIFIC TITLE, WE'LL TRY OUR VERY BEST TO GET IT FOR YOU. WE HAVE AFTER SALES SERVICE BETTER THAN ANYONE ELSE, HONEST. OUR COMPANY IS NOW MULTI-NATIONAL AND WE WILL ACCEPT MORE ORDERS FROM EUROPE, U.S.A, CANADA ETC. WE PROMISE TO GET 24 HOUR TURNAROUND OR WE'LL LET YOU PLUG OUR TOENAILS INTO THE MAINS, WE'LL REPLACE ANY PROBLEM DISKS IMMEDIATELY WITHOUT ANY OF THE WINGING OR WHINING YOU'D EXPECT.

WELL, THIS IS HOW GOOD WE ARE, BUT HOW ABOUT YOU? ARE YOU GONNA PAY TWICE WHAT WE CHARGE FOR THE SAME PD SOFTWARE, OR ARE YOU GONNA GET WITH THE CROWD? START SAVING MONEY AND BUYING PD AT THE PRICE IT WAS MADE TO BE SOLD AT, NO BIG PROFIT MARGINS, NO FAT GUY GETTING FATTER OFF YOUR BACK, JUST CHEAP PD. JOIN THE 'I'D RATHER DRILL A 2 INCH HOLE IN MY FOREHEAD AND USE IT AS A PENCIL CASE THAN PAY THAT FOR PD' CLUB. YOU KNOW IT MAKES SENSE. WE STOCK MASSES OF A1200 ONLY SOFTWARE AND STILL CATER FOR THE A500'S AND ALL IN BETWEEN. ANY TITLE YOU SEE IN AN ADVERT OR IN THE REVIEW SECTION, IT'S VERY LIKELY WE ALREADY HAVE IT. IF NO, WE'LL GET IT.

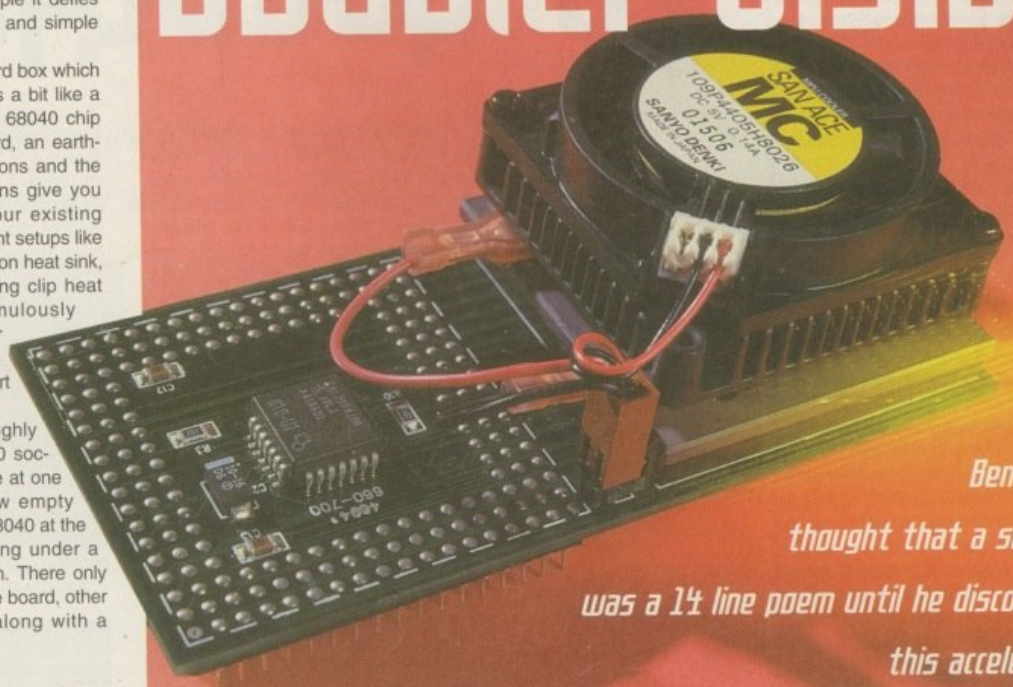
SO SEND 2X 1ST CLASS STAMPS OR 50P TO THE ADDRESS ABOVE FOR YOUR TWO DISK CATALOGUE, THIS IS REFUNDED BY A FREE DISK SELECTION, UPON YOUR FIRST ORDER. AIN'T WE NICE TO YA? TOO NICE, I'D BE SUSPICIOUS!!!

A HELLOW TO OUR FRIENDS IN THE INDUSTRY, DAVY DUNCAN, JEREMY FORD, PHIL AND ALEXIS, NEIL PAINTER, STAGAN MANSIER, ROB DAVIAU, LEE WALDER, SEAN KENNEDY, MARTIN WOOLISCROFT, NEIL STACEY, AND EVERYONE ELSE!

WE STOCK COMPLETE SETS OF ASSASSINS, SCOPE, FRED FISH, ARUG, AMIGAN, NZUG, JAM, BARBIE, CHINA GIRL, GRAPEVINE, AND EVERYTHING ELSE. OVER 500 EXCLUSIVE TITLES THAT ARE STOCKED, ERM, EXCLUSIVELY, BY V12-PD!!!

6000+ Titles, that's more than a library with less than that!

Doubler vision



Ben Vost thought that a sonnet was a 14 line poem until he discovered this accelerator

As I start this article I am dreading being able to finish it. I'm not worried about going over the top in terms of copy, I am worried about being able to fill the page with pertinent information. The main reason for my worry is that the Sonnet Doubler is so simple it defies belief. Simple in its operation and simple to install.

It arrives in a small cardboard box which also contains a tool that looks a bit like a small comb for removing the 68040 chip from your 3640 daughterboard, an earthing strap, a sheet of instructions and the doubler itself. The instructions give you guidelines on removing your existing 68040, covering all the different setups like the epoxied heatsink, the clip-on heat sink, and the paper-clip type spring clip heat sink. Once you have tremulously removed the heart of your machine and pried the living soul from it, you can then insert the Sonnet Doubler.

It consists of a board roughly twice the width of one 68040 socket, with pins on its underside at one end to insert into your now empty 68040 socket, and the new 68040 at the other end of the board sitting under a combination heatsink and fan. There only appears to be one chip on the board, other than the '040 of course, along with a couple of resistors.

OVER-CLOCKED

Motorola only make 68040s clocked up to 40MHz as far as I know, so the heatsink and fan have to work even harder to cope with an over-clocked CPU. The fact that it is running hotter than the normal '040 seems to make little difference and certainly didn't cause our machine to crash any more than normal.

Owners of machines other than A4000s may have trouble fitting the Doubler owing to the increased height requirements – it stands about an inch and a half proud of the daughterboard. You might be able to fit it into a 3000T but, unless they are willing to make serious modifications to the case, A3000 owners will probably be out of luck.

What speed does it run at? Well, SysInfo, that notoriously unreliable benchmark, gives us a rating of about 38.13MIPS and 9.66MFLOPS. Running it through AIBB gives us results of around twice the speed of our standard 040 rating. But is £399 too much to pay for doubling the speed of your Amiga? It's certainly on the edge of acceptability as far as I'm concerned when you could have a machine that is at least four times the speed for about a grand. Admittedly, that is over twice the amount the Doubler costs, but you would also have your original 3640 board to sell, and they fetch somewhere between £300 and £450 for the right buyer.

That brings the cost of the CyberStorm down to between £550 and £700, a much better proposition, especially when you consider that you will get better memory access and an optional SCSI-2 controller. Of course, if you can't afford that extra dosh then the Doubler does represent a good way of increasing the speed of your machine for relatively little outlay. AC

Too warped to fit?

I asked Blittersoft whether the Sonnet Doubler would work on any other 68040 accelerator card but it seems that most other accelerators don't use the 68040 at 25MHz, they all over-clock to 28MHz. This means the Doubler will unfortunately not work as it actually relies on there being a 25MHz clock rate.

ZIF a dee doo dah

Nearly all PC motherboards these days come with what is known as a ZIF socket for the CPU to sit in. ZIF is an acronym for Zero Insertion Force and works by having a socket with overwide holes in it for the CPU's pins to go into. There is a lever on the side of the socket which, once you have inserted your Pentium or whatever, you pull over until it locks once more.

This basically locks the pins of the CPU in contact with a conductive layer inside the socket. No more fiddling about trying to pry a chip out of its socket, levering it this way and that with a small screwdriver, hoping you won't bend any pins – just flip the lever back and the chip will just lift out.

As to why there aren't any ZIF sockets on Amiga motherboards or accelerators, I can only surmise that this is because the 680x0 range of processors isn't so swiftly obsolete (either that or the sockets cost too much).

SYSTEM ESSENTIALS

RED = Essential **BLACK** = Recommended

The bottom line

Product: Sonnet Doubler
Supplier: Blittersoft
Tel: 01908 261466
Price: £399

Ease of use	9
Implementation	9
Value for money	7
Overall	9

CD quality cut

For those who missed our initial preview in *Amiga Computing's* July issue, Tune Builder basically offers a totally unique approach to musical production on the Amiga. In the past, producing music to accompany either video or a multimedia production was both expensive and time consuming, and more often than not both.

Fortunately with its arrival, custom-built, pro-quality CD sound, is within the reach of quite literally anyone. And there's no need for any musical equipment, talent or studio facilities.

As any videographer will tell you, quality pre-recorded music is expensive, and even when you've got the basic working material you're still looking at a big investment in time, money and effort to edit and incorporate the music into your production. Even then you're by no means guaranteed that the end results will fit perfectly into the overall production – crescendos in the wrong place, quiet sections where you want a bit of excitement, the list goes on.

Fortunately, Tune Builder puts all these problems to the sword by providing a fully interactive customising process that allows the user to create music of precise length, tailored throughout in the style of your choice. Whether you need a change of mood or a dramatic crescendo, the exact slice of music you need can be slotted exactly in the right spot and repeated as often as necessary.

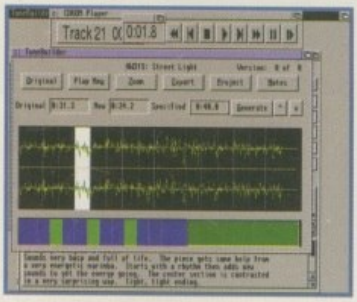
The question is, how can a combination of a musical illiterate, some software, and TB's accompanying CD's create pro-quality music that normally would keep a professional musician busy for hours if not days. The simple answer is that although you have control over the construction, the tunes themselves and all the hard graft that went into them has been done on your behalf by a team of professional musicians.

Obviously, the process of transforming a musically inept computer jock into an instant impresario all hinges on the skill of those lovely people who put TB's Arpeggio CD collection together. During what must have been a nightmare production process, the musos behind the music built multiple edit points directly into each tune, which were then picked up by the accompanying software. As a consequence, the software can take a slice out of this digital loaf and cut, copy and paste it back in anywhere you need it. As any muso will tell you, simply taking a random slice out of a song and slapping it down elsewhere is a recipe for disaster. Unless you're either very gifted or extremely lucky the timing, the key, and overall continuity will be shot to bits.

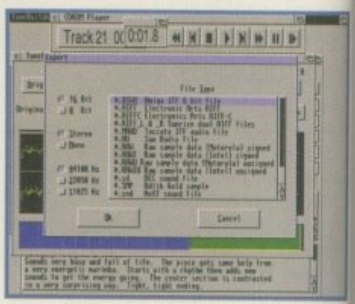
LARGE AND SMALL

During testing I dissected and totally reorganised entire tunes, shrank them to a tenth of their original size and expanded others from 30 second originals into minutes. Every time the end results were perfect, no clicks, no pops, no agonising key changes or obvious continuity faults well perhaps one or two...

As you may already be aware, one



Drag and drop simplicity amidst incredible sound and production quality



Just about every sample format imaginable from 8-bit mono to full 16-bit CD stereo

The bass line

Aside from the ease of use, time saving and all the other point bonuses for Tune Builder, the overriding must for any library is the overall quality of the music. All too often, libraries consist of innumerable synthesiser specials with the inevitable 'chicken in a basket' overtones that make for more of a novelty item than a serious production tool.

In Tune Builders' case there is a slight cheesy feel on the odd track, but in general the collection is truly excellent with vocals and guitars blended with believable brass and impressive percussion. Better still, all the major sampling formats, options and rates are supported across Amiga, PC and Mac and others. There's even a direct support of the Toccata card.

In short, Tune Builder is nothing short of essential for anyone involved in serious video or general multimedia. It will literally save hundreds of hours of hard graft while improving your overall production quality. If you can afford it, and can envisage a return on your investment, you can't really afford to be without it.

Mix and match

On initial boot-up, the first port of call is the Library section where you audition and select from the 344 assorted tunes spread over the 12 accompanying CDs. Needless to say, some form of filtering, not to mention auditioning, is essential, but fortunately both areas are something TB is particularly adept at.

Initially, the library presents you with the complete list and you're free to scan the collection and read the notes appended to each track – regardless of whether the CD is actually in the drive. If you find something you like the sound of, either during a browse or a dedicated search, it can be tagged and will then always appear in the search window regardless of subsequent search parameters.

If time is of the essence, or perhaps you already have a firm idea of what you're after, the obvious step is to forego browsing and go straight into a search. As you've probably gathered courtesy of the screen shots, filtering the 344 tunes is particularly well implemented. The first step is to select a style or even multiple styles. If this doesn't trim down the selection sufficiently you can narrow the selection further by searching by word, defining preferred tempos and/or a range of beats per minute. Even track length, using greater, less or exact parameters is an option.

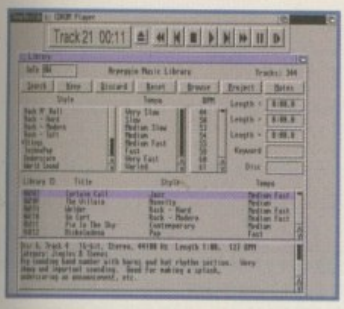
DELIVERIES

During a complex search a click on the button will usually deliver three or four tunes. The next step is to audition your selection and to do it you'll need to fire up your CD-ROM drive. As you select each track the software provides a brief overview in the form of an editable note, the ID of the track, and the CD on which it's stored.

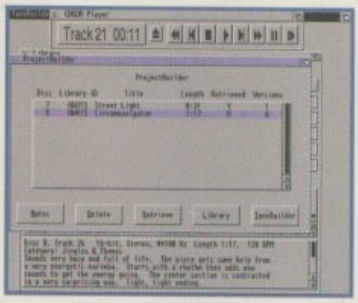
If you then select the CD Player preview from the pull-down, a tape deck control pops-up ready to assist the

t and paste

Paul Austin auditions Tune Builder – arguably the greatest advance in Amiga music in years



The ultimate in pick and mix. With 344 tunes to choose from there's no chance of running out of ideas



Make your selections and import. But bear in mind you could need 60Mb of disk space for the necessary 16 and 8-bit data

minute of stereo CD quality audio translates into roughly 14Mb of storage space. As a result, actually producing 30 minutes of CD quality sound internally would bring even the best equipped Amiga to its knees. Consequently, TB offers a unique approach to production by importing the original 16-bit data for the selected tune, and from this it creates a more manageable 8-bit dummy. And it's this 8-bit clone which TB uses for preview during production.

As you'll discover later, you do have the opportunity to audition the available tunes in 16-bit prior to editing, so you should have a good idea of the overall quality beforehand. For the purists, 8-bit may seem like a worrying compromise, but in reality the clone is more than adequate for basic edit decisions.

Once your designer tune is complete, the software reverts to the imported 16-bit data and compiles your master tune in the format and sound quality of your choice.

> Tune Builder provides a fully interactive customising process that allows the user to create music of precise length, tailored throughout in the style of your choice

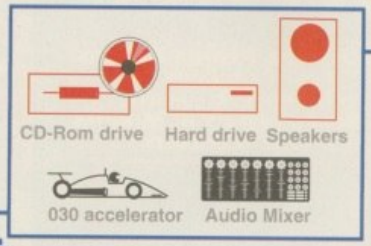
process on either searches or during browsing. Alternatively, if you simply double-click on the selected track the CD drive will automatically locate it and start playback direct from the CD.

Obviously there's a chance that not all your selections will be on the same CD. Fortunately, if you double-click on a track that isn't on the current CD you'll be prompted to insert the correct volume. And as an added safeguard, each track which is on the current CD will be highlighted with a star in the selection window.

Assuming you've found one or more tracks you're particularly keen on, you simply tag them and click on the project button. At this point you'll be asked what you want to import – either the currently highlighted file or your complete selection. That done, the software sets about importing the 16-bit data and generating its 8-bit doppleganger. Assuming you've imported all the tunes you require, simply select one and click on the all important Tune Builder button.

SYSTEM ESSENTIALS

RED = Essential **BLACK** = Recommended



The bottom line

Product: Tune Builder
Supplier: AirWorks Media
Price: $999 none broadcast
Price: $18,999 TV and broadcast rights
Tel: 001 403 424 9922 (Canada)

Ease of use ____ **10**
Implementation ____ **10**
Value for money ____ **7**
Overall ____ **9**

Legato lego

Once inside the editor you're presented with a waveform of the entire tune segmented into numerous individual edits, and it's these seamless cuts that are the key to the whole process.

Although the principle is inspired, the actual production process is embarrassingly simple. To audition the tune simply click on the Play Original button, and if you're perfectly happy with things as they are you can export the tune in the rate and file format of your choice.

The next option is to interact a little more by specifying a user-defined length for the tune you require – either larger or smaller than the original. If you add the length you need and click on generate, TB automatically interpolates the existing track to produce a custom-built tune that will fit your time parameter – usually to within one second.

If you don't like this initial mix you can click again and TB will produce a new variant. You can repeat the process as often as you like and then toggle between the variations with the adjacent arrow keys. If this still doesn't quench you thirst for interaction, there's still lots of scope. The next option is to use a combination of shift and mouse clicks to select individual sections – more than once if necessary. The selection is then played in sequence to generate a completely custom-built tune. If you like it, again a simple clicking on the Export will generate a new master.

INTERACTIVITY

The final and, without doubt, the most flexible method is to opt for a full-blown edit session by getting interactive with the Assembler Bar directly below the waveform. To use it you simply click on a section you like, drag it across and drop it on the bar. To create an entire tune you just keeping clicking, dragging and dropping until you have exactly the arrangement and length you need.

To audition your creation you can click on the Play New button or shift and drag over the section you want to hear. As you select a new block from the waveform, its counterparts in the Assembler window light up, so it's easy to construct repeats or verse/chorus sections.

You're also free to drop blocks in-between existing selections and delete others. In short, complete drag and drop control. If you need to fade the volume, a click on the join between any two blocks evokes the Dynamic Adjustment Requester which allows you to add space for voice-overs or fade out tunes that perhaps slightly overrun the require run-time.

SATURN

AMIGA EXTERNAL FLOPPY DRIVE

COMPATIBLE WITH ALL AMIGAS
HIGH QUALITY SONY® DRIVE
ROBUST METAL CASE
ANTI-CLICK AS STANDARD
SWITCHABLE ANTI-VIRUS
ENABLE/DISABLE SWITCH
LOW POWER CONSUMPTION
THRU PORT FOR EXTRA DRIVES
2 YEAR WARRANTY

£49.99
ORDER CODE: W100

MICE 'n' MATS

BOTH MICE HAVE MICRO-SWITCHED BUTTONS AND ARE AMIGA/ST SWITCHABLE
2 YEAR WARRANTY

400 DPI MOUSE	£9.99 ORDER CODE: W150
OPTICAL MOUSE	£19.99 ORDER CODE: W151
MOUSE MAT	£2.99 ORDER CODE: W152

APOLLO

A1200 8MB RAM ACCELERATOR

AVAILABLE WITH 0, 2, 4, 8MB OF 32-BIT RAM INSTALLED
USES STANDARD 72-PIN SIMMS
OPTIONAL PLCC TYPE FPU (FLOATING POINT UNIT)
BATTERY BACKED CLOCK
INSTALLS IN MINUTES
FINGER CUT-OUT FOR EASY INSTALLATION
0-4MB - PCMCIA COMPATIBLE (PRODUCTS SUCH AS OVERDRIVE ETC.)
ZERO WAITE STATE DESIGN
2 YEAR WARRANTY

ALMOST DOUBLES THE SPEED OF YOUR MACHINE

0MB	2MB
£59.99 ORDER CODE:W200	£119.99 ORDER CODE:W202
4MB	**8MB**
£179.99 ORDER CODE:W204	£299.99 ORDER CODE:W208

33MHZ FPU+CRYSTAL £49.99 ORDER CODE: W238

ENTERPRISE

COMPUTER WORKSTATIONS
AVAILABLE IN 3 SIZES

SINGLE WORKSTATION FOR A500/600/1200

DOUBLE WORKSTATION FOR A500/600/1200 PLUS EXTRA SHELF

WIDE WORKSTATION WIDE UNIT FOR A500/600/1200 WITH ADDITIONAL SIDE PERIPHERALS (HARD DISK OR FLOPPY DRIVE)

2 YEAR WARRANTY

NEW!

SINGLE WORKSTATION	£29.99 ORDER CODE: W530
DOUBLE WORKSTATION	£34.99 ORDER CODE: W531
WIDE WORKSTATION	£34.99 ORDER CODE: W532

WIZARD SOFTWARE SELECTION

DIRECTORY OPUS 5 NEW! £49.99
THE LATEST VERSION OF THE ULTIMATE FILE MANAGEMENT SYSTEM FROM JONATHAN POTTER. INTERNAL MULTI-THREADED OPERATION, UNLIMITED OPERATIONS RUNNING SIMULTANEOUSLY, AMIGAGUIDE ON-LINE HELP AND MANY MORE ADVANCEMENTS MAKES THIS THE ESSENTIAL AMIGA UTILITY - IT CAN EVEN REPLACE WORKBENCH!

GP FAX £39.99
SEND & RECEIVE FAXES FROM YOUR AMIGA VIA YOUR MODEM. YOU CAN EVEN PRINT FROM YOU FAVOURITE APPLICATION TO YOUR FAX DEVICE! AMIGA COMPUTING - 9/10

EASY LEDGER 2 £199.99
FULLY INTERGRATED ACCOUNTING SOFTWARE WITH LEDGERS, STOCK CONTROL & JOB COSTING. AMIGA FORMAT GOLD - 94%

HYPERCACHE 2 £24.99
SPEEDS UP READ/WRITE OPERATIONS TO YOUR FLOPPY DRIVES, HARD DRIVE OR CD-ROM UNIT BY TO UP 3000%

IMAGEFX 2 £104.99
FORGET ADPRO - THIS IS THE ADVANCED IMAGE PROCESSING PACKAGE. MANY ADVANCED FEATURES INCLUDE, LIGHTNING BOLT GENERATOR, MPEG FILE SUPPORT, DPS PAR SUPPORT AND MUCH MUCH MORE..

DISKS

1MB CAPACITY (880K FORMATTED)
GRADE A CERTIFIED QUALITY
INCLUDE COLOUR LABELS
2 YEAR WARRANTY

10 DISKS INC. DISK LABELS	£4.99 ORDER CODE: W159
50 DISKS INC. DISK LABELS	£19.99 ORDER CODE: W160

JUPITER

A500/600 RAM BOARDS

QUALITY LOW PROFILE DESIGNS
LOW CHIP COUNT TO IMPROVE RELIABILITY
ALL BOARD INSTALL IN MINUTES
2 YEAR WARRANTY

A500 512K NO CLOCK	£19.99 ORDER CODE: W401
A500 512K WITH CLOCK	£24.99 ORDER CODE: W402
A500 PLUS 1MB	£29.99 ORDER CODE: W403
A600 1MB NO CLOCK	£29.99 ORDER CODE: W404
A600 1MB WITH CLOCK	£39.99 ORDER CODE: W405

X-LINK & TORNADO

EXTERNAL MODEMS

14.4K OR 28.8K SPEEDS
V34 (28.8K), V32BIS, V32, V23, V22, V22BIS, V21
BABT/BT APPROVED
REQUIRED FOR USE ON A BT LINE
MNP 2-5 & V42, V42BIS
SYNC & ASYNC OPERATION
AUTOMATIC FALL BACK & FORWARD FOR OPTIMUM LINE PERFORMANCE
GROUP 1-3 FAX TO 14.4K
FULLY HAYES COMPATIBLE
LED FRONT PANEL DISPLAY
GP FAX SOFTWARE OPTION
SEND AND RECEIVE FAXES FROM YOUR AMIGA
SUPPLIED WITH CABLE & SOFTWARE (N-COMM FOR AMIGA)
2 YEAR WARRANTY

BT APPROVED

NEW!

PRICES FROM £99.99

TORNADO 14.4K ORDER CODE: W506	£99.99
X-LINK 14.4K ORDER CODE: W504	£129.99
TORNADO 28.8K ORDER CODE: W507	£199.99
X-LINK 28.8K ORDER CODE: W505	£229.99

AMIGA

PRODUCTS FROM

WIZARD DEVELOPMENTS

WHY BUY FROM WIZARD ?

LEADING EDGE PRODUCTS AT GREAT PRICES
BUYING POWER THAT ENSURES LOW PRICES & FAST DELIVERY
WE PROVIDE PRODUCT LIFE-TIME SUPPORT
HELPFUL STAFF TO PROVIDE THE HIGHEST LEVEL OF SALES & TECHNICAL SUPPORT
THE PRICES SHOWN ARE WHAT YOU PAY

ALL PRODUCTS COME WITH

2 YEAR WARRANTY | MONEY BACK GUARANTEE | FREE UK DELIVERY

All prices include VAT and carriage within the UK mainland. Please add £5 to your order for non-UK Mainland delivery. All products are subject to availability. E&OE. Advertised prices and specification may change without notice.

MONEY BACK GUARANTEE

IF FOR ANY REASON YOU ARE NOT 100% SATISFIED WITH YOUR PURCHASE, YOU CAN RETURN THE COMPLETE PRODUCT TO US WITHIN 28 DAYS OF RECEIPT FOR A REFUND.

ORDER HOTLINE

01322 272908

BETWEEN 9AM AND 6PM, MONDAY TO FRIDAY, TO PAY BY ACCESS OR VISA. TO PAY BY CHEQUE OR POSTAL ORDER PLEASE RETURN THE ORDER FORM BELOW TO -
WIZARD DEVELOPMENTS, PO BOX 490, DARTFORD, KENT, DA1 2UH

VISA | TRADE ENQUIRIES WELCOME | Access

CONTACT US ON INTERNET
SALES@WIZARD-D.DEMON.CO.UK

ORDER FORM

Product Code & Description *Price*

Name _____

Address _____

_____ Post Code _____

Phone Number _____

CHEQUES SHOULD BE MADE PAYABLE TO WIZARD DEVELOPMENTS.

Internal combustion

Neil Mohr takes two of the latest CD-ROMS for a spin

CD-ROMS seem to be quite in vogue at the moment. You would have a tough time trying to buy a PC or Macintosh which is not fitted with one, but it's not like Amiga owners have been left behind, with Squirrel SCSI CD-ROMS flying off the shelves quicker than the hottest hot cakes.

The options available for A1200 owners are quite straightforward – get yourself a Squirrel setup. Big box Amiga owners have a much wider choice – slap in a SCSI interface and take your pick of all the SCSI CD-ROMS that are out there.

Both the Plextor and NEC drives are internal drives so require a little more work to fit than an external one. You connect both to the SCSI board via a 50-way ribbon cable, making sure the red wire goes to pin 1. The CD audio can be piped through a four-way connector at the back and connected internally to your Amiga, allowing any CD sound to be mixed with the normal Amiga audio – even though a little surgery had to be performed to make the provided lead fit at the Amiga end. All that is left to do is power up the CD with an IDE power connector.

Both the Plextor and NEC drives use caddies. I think they are a pain but they do allow you to use the drives on their side – if they are external drives – and protect the discs. They also have the usual array of controls that appear on CD-ROMS – headphone socket, volume controls, and an eject button. All pretty thrilling stuff.

The Plextor drive is a quad-speed unit and, when sysinfo is in a good mood, returns a transfer rate of more than 600k a second. It appears to be a SCSI 1 device, but this is no real disadvantage because even the fastest CD-ROM is not exactly pushing SCSI 1 to its limits.

INSTRUCTIVE

The manual that comes with the Plextor is jam packed with installation instructions, but unfortunately these are for the PC and Mac. Having said that, a lot of this is relevant stuff, but probably the only thing you will need to know is how to change the SCSI ID number.

Another feature the Plextor drive has is that it is possible to put it into audio CD-ROM mode. When you first turn on the computer, if you hold the eject button down for three seconds the drive can then play audio CDs. Any music CD you put in it will be played, and you can skip tracks by tapping the eject button. Unfortunately, the only way you can get the CD-ROM back is by turning your computer off again.

As for the NEC, it does seems to be of a slightly better construction, and is a sextuple speed, SCSI 2 device. Again, when sysinfo is in a good mood you can get a transfer rate of over 900k a second. The only other major feature the NEC has over the Plextor is a digital out connector, which would allow you to get perfect samples off any CD. If you have the facilities to use this I am sure it will be very welcome.

Having said that, the CD door on the NEC can be locked open. This might sound a really trivial point, but when you are flinging CDs in and out of it all day, it is actually really useful not to have to bother messing about trying to prop open the CD door when inserting the caddy.

In practice, there seemed to be very little difference between the two drives, even though the NEC is a sextuple-speed mechanism. The Plextor does have a 1Mb buffer and a random access time of 220ms, which could be the reason for the Plextor beating the NEC drive at the Aminet Search. It is also difficult to spot the speed increase of the NEC when doing directory listings and animation replays.

At the end of the day, whether you choose the NEC or Plextor will come down to how much you are willing to spend. There is a very noticeable difference between using a quad-speed over a dual-speed CD-ROM, but whether the extra 70 pounds for the NEC compared to the Plextor is worth it is something you will have to decide.

AC

Speed statistics

For all you stat freaks, a little selection of speed comparisons:

Drive	SysInfo	Copy File	AminetSearch
Aiwa aCD300	305k	28.8 secs	5.0 secs
Plextor PX4cx	610k	16.6 secs	3.8 secs
NEC 6Xi	910k	12.6 secs	4.1 secs

SYSTEM ESSENTIALS

RED = Essential **BLACK** = Recommended

The bottom line

Product: Plextor PX43cx
Supplier: First Computer Centre
Price: 239.99
Phone: 0113 2319444
E-Mail: sales@firstcom.demon.co.uk

Ease of use 7
Implementation 8
Value for money 7
Overall 8

Product: NEC 6Xi
Supplier: First Computer Centre
Price: 312.99
Phone: 0113 2319444
E-Mail: sales@firstcom.demon.co.uk

Ease of use 7
Implementation 8
Value for money 6
Overall 7

Speaker's

Tina Hackett and Gareth Lofthouse round-up and review some of the many speaker systems available for your Amiga

AIWA Multimedia Active Speaker System

Given Aiwa's reputation for top-quality equipment such as their latest CD-ROM drive which received a Blue Chip Award last month, high hopes were held for their mid-priced speakers.

The Aiwa speakers, although quite compact, are stylish in design and because they are slim, fit nicely by the side of your monitor without taking up too much space. Three control buttons are situated at the top and as well as the usual power button, there is a Surround control which, in theory, gives you more of a stereo effect due to the Front Surround Circuitry. However, when tested it didn't actually alter the sound a great deal.

From such small speakers you do get quite a powerful sound, although bass sounds don't come across all that well, and unfortunately, although it claims 'Dynamic Super Linear Bass', it still sounds fairly tinny.

At this price the Aiwa still feels like a durable, sturdy system, and if you're not too fussy about deep bass sounds then the Aiwa provides value for money.

Product: Aiwa SC-C55
Price: £49.99
Supplier: Aiwa
Tel: 0181-897 7000

Sound quality	6
Features	7
Build quality	8
Overall	7

SONY SRS-PC50

Probably the most ugly speakers on the market, the Sony SRS-PC50 are designed to be attached to the side of your monitor, although rubber feet do allow them to be placed on your desktop.

Featuring built-in amplifiers that give a total of 5W, they are also magnetically shielded to prevent distortion on your monitor. The controls are placed on the side of the speaker so when mounted they would face forward allowing ease of use. A bass control can be adjusted to give deeper sounds and the quality overall is good.

Product: Sony SRS-PC50
Price: £79.99
Supplier: Gem
Tel: 01279 442842

Sound quality	7
Features	7
Build quality	6
Overall	7

corner

Yamaha YST-M5 Powered Monitor Speakers

The cheaper of the Yamaha set, the YST offers only a three Watt per channel output, but as we've seen before this is usually irrespective of the sound quality you get. However, in this case the sound is very feeble and reflects the low wattage.

Design is rather questionable too. Apart from looking like an upmarket air freshener, the speakers don't feel as if they'd survive any knocks or bumps. The controls are front-mounted which makes them easy to reach, but because of the lightness of build you have to have both hands free to support the speaker while you make your adjustments. Their size also makes them fiddly and even those with the most nimblest of fingers are going to have problems.

Feature wise it comes complete with an extra output socket to allow it to be connected to something like a very impressive sub-woofer. A presence dial allows you to change the amount of treble you get but unfortunately this wasn't all that responsive. For this sort of price, you're better off going for the Power Speakers or the Aiwa which both feel like they should last a lot longer and provide better value for money.

Product: Yamaha YST-M5
Price: £49
Supplier: Yamaha Kembals
Tel: 01908 366700

Sound quality	5
Features	5
Build quality	4
Overall	5

Zydec ZY-FI Pro 2

Zydec may not have the brand image that Sony and Yamaha products carry, but this arguably accounts for their lower pricing. The question is, can they match the big boys in terms of sound quality?

The first noticeable point is their strange, and some would say tacky, styling, with the pink and wobbly power button standing out like a sore thumb. However, their upward tilt makes some sense considering they'll be set on a desktop well below ear level. Unpretentious but comprehensive controls include volume, bass and treble, though they are rather stiff to use. Combine this fact with the unit's lightweight and not very solid look and feel and the Zydec begins to look less durable than some of its more expensive rivals.

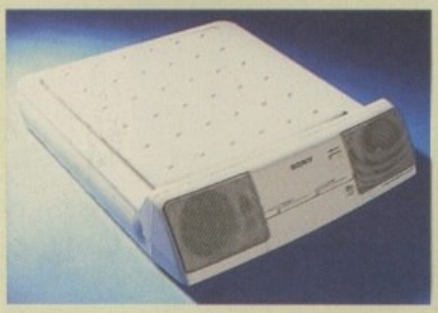
Sound quality is not at all bad, and high volumes are attainable without too much distortion. The bass has impressive depth and mid-range clarity is reasonable considering the price. The trade-off between bass and size is less impressive, however, than with the more compact Yamaha speakers.

If you're not bothered about looks and ergonomics – and let's face it, it's not as important for computer applications as with a hi-fi – then the Zyfi offers a perfectly decent sound solution for standard Amiga purposes.

Product: Zy-fi Pro 2
Price: £46.99
Supplier: Special Reserve
Tel: 01279 600204

Sound quality	8
Features	7
Build quality	5
Overall	7

Sony CSS-B100



An all-in-one set designed to fit snugly underneath your monitor, this unit from Sony is at the higher end of the computer speaker market. Magnetically shielded to prevent distortion of your monitor picture and boasting an unusual array of extras, on paper it already looks like one of the tidiest audio solutions.

The Sony's large base is designed to support monitors up to 25 kg, and though it looks big when removed from the box, it actually takes up less desk space than having a couple of small speakers wired up next to the computer. The only possible problem might be that when used with big box Amigas, the Sony will put your monitor at a neck-straining height.

In terms of sound quality, the Sony was a strong performer. Of course it suffered from the same limitations you'd expect from cheap midi hi-fis, such as a lack of depth in the sound, but to expect much more for under £100 would be unfair. At least the bass was substantial enough to avoid too much tinnyness, providing the bass booster was turned to full.

A downside of having everything located neatly beneath the monitor is that the speakers are too close to properly benefit from stereo. In fairness, though, few computer users will be overly bothered on this count.

The Sony scores points for efficiency, for although it has a low wattage, high volumes can be achieved with distortion only occurring at the very highest output – which is a lot more than can be said for many of its rivals.

Connection to the computer is made using the standard left-right channel audio jacks, but more unusual are the secondary set of ports hidden behind a flap mounted on the unit's front. These allow for the connection of video, a microphone and a Discman or Walkman. Not only is it good to have these available, but the fact that users won't have to fiddle around behind the unit too much is also a welcome feature.

Finally, it has to be said that paired with the right monitor, the Sony's smart fascia can only make your kit look more impressive. Strong on sound and features, this sound system is a high calibre contender, and only its price will make serious users have second thoughts about buying.

Product: Sony CSS-B100
Price: £85
Supplier: GEM
Tel: 01279 442842

Sound quality	8
Features	9
Build quality	7
Overall	8

Yamaha YST-M10 + Subwoofer

The Yamaha M10s are a pair of 10 watt speakers from another reputable brand name which boasts unusual and elegant styling to match some impressively named special features including pure spruce wood cones and the exclusive Active Servo Technology.

The latter facility is another way of giving the bass surprising depth considering how compact this pair of speakers actually is. Having said that, however, similarly priced systems in the round-up fared equally well. Front mounted controls veer from convention slightly with a knob to control 'presence' rather than treble or bass. Roughly speaking, however, this seems to perform a similar function to the standard treble control, whereas bass didn't appear to be very adjustable at all.

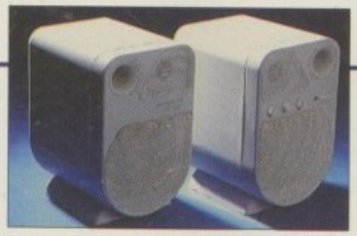
Clarity of sound was highly competitive in its class, and the inclusion of a port to allow the connection of a subwoofer will make them very appealing as components of a highly serious multimedia sound system. The inclusion of jacks and adapters make an encouraging bonus since they allow minimal fuss connection to be made with anything from your Amiga to your hi-fi. This is instantly preferable to having to go through a monitor headphone jack as is the case with some of the alternatives.

The only complaint might be that these speakers ought to be a bit cheaper, and as standalone's their sound is not quite on a par with the Sony's. Still, some buyers won't mind paying extra for Yamaha build quality, and when connected to the Yamaha subwoofer this system is so far unbeatable.

Product: Yamaha YST-M10s
Price: £69
Subwoofer: £116
Supplier: Yamaha Kembals
Tel: 01908 366700

Sound quality — 8
Features — 8
Build quality — 8
Overall — 8

HiQ Hi-Fi quality speakers



Boasting a hefty 80 watts and priced at only £49.95, these speakers from HiQ seemed too good to be true, but putting them to the test we found that our cynicism wasn't in the least bit justified.

Mounted on their own stand, they are a lot bigger than the others we looked at and the space conscious may find their bulk off-putting. Similar in size to the Primax giants, if style is an important factor then the HiQ ones win hands down.

While the Primax speakers had sturdy top-mounted switches, these have some rather flimsy switches situated on the front. Although they allowed for some accurate alterations to be made to the volume, bass and treble, they did feel that any heavy handling might just snap them off.

Overall though, for the user who requires a good quality sound at a very affordable price, these come well recommended.

Product: Stereo Speakers
Price: £49.95 (+P&P £7.00)
Supplier: HiQ Limited
Tel: 0181-909 2092

Sound quality — 8
Features — 8
Build quality — 8
Overall — 8

Primax 60 watt

Competing at the lower end of the market, the 60 watt Primax speakers still supposedly have loads more wattage than far more expensive speakers. By now, however, you're probably beginning to realise that this doesn't seem to count for much in terms of sound quality.

This pair is very small and simply styled, with magnetic shielding to prevent picture distortion if they're used in close proximity to the monitor. Simple controls include volume and bass, while connection is only possible to the Amiga via a monitor's headphone socket – unless you buy an adaptor, that is. Sound quality is perfectly adequate considering the price, but like its big brother it tends to overstretch itself with distortion apparent after the volume has been raised by just over a third of its capacity.

Still, they will prove perfectly adequate for gamesplaying and the like, and compared to rival unit's they have a reassuring weightiness that suggests higher than average sturdiness. In short, they're a low budget offering that's worth considering.

Product: Primax 60 watt
Price: £39.99
Supplier: Primax UK
Tel: 01235 559922

Sound quality — 6
Features — 6
Build quality — 7
Overall — 7

Primax Soundstorm 240 Watt

The Soundstorm range are a new collection of computer speakers designed to establish their makers, Primax, as a top developer of multimedia peripherals. Boasting 240 watt power, this top of the range pair promised much in comparison to the 5-10 watt average in its rivals.

Unsurprisingly, they are rather large and will prove an encumbrance on desks already straining underneath the weight of printers, hard drives and CD-ROMs. In terms of appearance, they bear the closest resemblance to standard hi-fi speakers thanks to their box-like, basic design.

The standard audio-system similarities are also borne out by the inclusion of 4" woofers and 2" tweeters for more convincing bass and treble sounds. Like all good computer speakers, however, they include a built-in power amplifier.

The controls are comprised of the standard treble, bass and volume but they're top mounted which makes adjustments slightly more convenient than when knobs are located at the base of the speakers.

High volumes certainly are attainable with these speakers – though the increase over 10 watt rivals is far less dramatic than you might expect. The real problem, however, is that the volume doesn't have to be pushed up that high before the sound becomes badly distorted, which obviously makes that excess power practicably unusable.

Even if volumes are kept within a low to medium range, the speakers were still none too impressive considering the price. Amiga owners would be well advised to either buy something cheaper or go for the Yamaha top-range speakers if they want real power paired with accuracy.

Product: Primax Soundstorm 240 Watts
Price: £74.99
Supplier: Primax UK
Tel: 01235 559922

Sound quality — 7
Features — 7
Build quality — 6
Overall — 7

COLONIZATION
22.99

ULT SOCCER MGR
19.99

SENSIBLE GOLF
19.49

UFO
18.99

FIRST ENCOUNTERS
19.99

FATE OF ATLANTIS
13.99

WORDWORTH 3.1 AGA
57.99

NOP = not A500 +, A600 or A1200
NO12 = will not work on A1200
512K = will work on 512k machines
HDR = Hard Drive Required
EDR = External Drive Required
+ = NEW Item
XS SAVER = deduct amount shown until date shown

A1200 GAMES

ALADDIN 17.99
ALIEN BREED - TOWER ASSAULT 13.49
ALIEN BREED 2 ..... 11.99
ALIEN BREED 3D 20.99
ANDRE AGASSI TENNIS • 20.99
BALDIES 19.99
XS BALDIES - DEDUCT £3 UNTIL SEPT 30
CIVILISATION AGA 14.99
COLONIZATION 22.99

CORE COMPILATION VOL 1
BANSHEE, SKELETON KREW, HEIMDALL 2 ..... **19.99**
DETROIT 21.99
DUNGEON MASTER 2 ..... 22.49
FEARS • 20.99
FIELDS OF GLORY 12.49
FRONTIER - FIRST ENCOUNTERS 19.49
GLOOM ('DOOM' CLONE) 20.99
GUARDIAN 19.49
HIGH SEAS TRADER 22.49
JUNGLE STRIKE 12.99
KINGPIN 9.99
LION KING 19.49
MORPH 5.99
NEW WORLD OF LEMMINGS 22.49
ON THE BALL (HDR)
- LEAGUE EDITION 12.49
- WORLD CUP EDITION 12.49
PGA EUROPEAN TOUR 14.99
PINBALL ILLUSIONS 19.49
PUSSIES GALORE 17.99
ROAD KILL 20.99
ROBOCOD (AEG) 5.99
SHADOW FIGHTER 10.99
SIM CITY 2000 (HDR & 5MB) 21.99
SIMON THE SORCERER 14.99
STAR TREK
25TH ANNIVERSARY (HDR) 24.99
SUB WAR 2050 ..... 18.99
SUPER LEAGUE MANAGER 19.49
SUPER STARDUST 18.99
THEME PARK 22.49
UFO - ENEMY UNKNOWN 22.99
ULTIMATE SOCCER MANAGER 19.99
VIROCOP 19.99

AMIGA GAMES

A-TRAIN + CONSTRUCTION SET 10.99
ALIEN BREED - T/ASSAULT (512K) 13.49
ANDRE AGASSI TENNIS • 18.99
ARCADE POOL 7.99
B17 FLYING FORTRESS 12.99
BATTLE FOR THE ASHES 9.99

BEAU JOLLY COMP
CANNON FODDER, SETTLERS, CHAOS ENGINE, T2 ..... **17.99**

BENEATH A STEEL SKY 19.49
BIG 100 (100 SHAREWARE GAMES) 8.99
BLACK CRYPT 10.49
BODY BLOWS 3.99
CANNON FODDER 12.99
CHAMP MANAGER 94/95 (END OF SEASON DATA DISK) 12.99
CHAMP MANAGER COLL (93/94 + UPDATE DISK) 14.99
CHAMP MANAGER ITALIA 95 ..... 16.49
CHAOS ENGINE (512K) 9.49

CLASSIC COLLECTION - LUCAS ARTS
MONKEY ISLAND, INDY JONES ADVENTURE, LOOM, MANIAC MANSION, ZAK MCKRACKEN **19.99**

COLONIZATION 22.99

COMBAT CLASSICS 3
HISTORYLINE, CAMPAIGN, GUNSHIP 2000 ..... **19.49**

DAWN PATROL 22.49
DESERT STRIKE 10.99
DUNE 2 - BATTLE FOR ARRAKIS 13.99
ELITE (512K) 4.99
ELITE 2 (FRONTIER) 14.49
FIELDS OF GLORY 13.99
FIFA INTERNATIONAL SOCCER 19.99
FLIGHT OF THE AMAZON QUEEN 19.49
FORMULA 1 - WORLD CHAMPIONSHIP EDITION (512K) 20.99
FORMULA 1 GRAND PRIX (512K) 10.49
FRONTIER - FIRST ENCOUNTERS 19.99

GRAHAM GOOCH
- TEST MATCH SPECIAL 19.49
- DATA DISK 9.99
- WORLD CLASS CRICKET 15.99

GREMLIN COMPILATION VOL 2
ZOOL 2, LOTUS 3, PREMIER MGR 2, SPACE CRUSADE **18.99**

HEART OF CHINA 12.99
HISTORYLINE 1914-18 ..... 12.99
INDY JONES FATE OF ATLANTIS ADV 13.99
INNOCENT 9.99
JUNGLE STRIKE 12.99
K240 (UTOPIA 2) 12.99
KINGPIN 9.99
KNIGHTS OF THE SKY 12.49
LEMMINGS 2 ..... 9.99
LORDS OF THE REALM 21.49
MAN UNITED - THE DOUBLE 22.99
MORTAL KOMBAT 11.99
MORTAL KOMBAT 2 ..... 19.49
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**

PLAYER MANAGER 2 ..... 15.99
POWERDRIVE 13.49

POWERMONGER +
WW1 DATA DISK (512K) **11.49**

PREMIER MANAGER 3 + EDITOR • 13.99
PREMIER MANAGER 3 EDITOR 12.99
ROME AD 92 ..... 12.99
SCRABBLE (512K) 13.99
SECRET OF MONKEY ISLAND 12.99
SECRET OF MONKEY ISLAND 2 ..... 12.99
SENSIBLE GOLF 19.49
SENSIBLE SOCCER - INT'L EDITION 11.99
SENSIBLE WORLD OF SOCCER 19.49
SETTLERS 15.49
SILENT SERVICE 2 (NO12) 11.99

SIM CLASSICS 3 IN 1
SIM CITY CLASSIC, SIM LIFE, SIM ANT (1.5MB RAM REQUIRED) **21.99**

SIMON THE SORCERER 14.99

SPACE LEGENDS
WING COMMANDER, ELITE, MEGATRAVELLER **11.99**

SPEEDBALL 1 & 2 (512K) 8.49
SPERIS LEGACY 18.99

SPORTS MASTERS
PGA GOLF, INDY 500, ADVANTAGE TENNIS, EURO CHAMPS 1992 ..... **13.99**

SUPER SKID MARKS 2 ..... 20.99
SWIV (512K) (NOP) 4.99
SYNDICATE 12.99
THEME PARK 22.49
UFO - ENEMY UNKNOWN 18.99
ULTIMATE SOCCER MANAGER 19.99
VOYAGES OF DISCOVERY 14.99
WING COMMANDER 1 ..... 5.99

WORLD CUP YEAR 94
GOAL, CHAMP MANAGER 94 + D/D, STRIKER, SENSIBLE SOCCER **12.99**

ZEEWOLF 19.49

CD32 GAMES

ATR 18.99
ALIEN BREED - TOWER ASSAULT 19.99
ALIEN BREED 3D 22.49
ANDRE AGASSI TENNIS • 20.99
CHAOS ENGINE • 12.99

CORE COMPILATION VOL 2
BANSHEE, SKELETON KREW, HEIMDALL 2, UNIVERSE **21.99**

CORE COMPILATION VOL 3
BUBBA 'N' STIX, PREMIER, CHUCK ROCK 1 & 2 ..... **16.99**

FEARS • 20.99
FRONTIER - FIRST ENCOUNTERS 19.49
GLOOM ('DOOM' CLONE) • 20.99
GUARDIAN 19.49
JUNGLE STRIKE 12.99
LOST EDEN 22.49
MICROCOSM • 30.99
PINBALL ILLUSIONS 19.49
ROAD KILL 20.99
SHADOW FIGHTER 10.99
SIMON THE SORCERER 14.99
SIMON THE SORCERER 2 ..... 23.99
SPEEDBALL 2 ..... 12.99
SUB WAR 2050 ..... 16.49
SUPER SKIDS 2 ..... 20.99
SYNDICATE 23.99
THEME PARK 22.49
TRIVIAL PURSUIT 14.99
UFO - ENEMY UNKNOWN 16.49

A1200 UTILITIES

BRILLIANCE V.2 AGA (HDR) 48.99
PHOTOGENICS V1.2 ..... 51.99
VISTA PRO (LITE) (HDR) 26.99
WORDWORTH V 2 AGA (EDR OR HDR) 24.99
WORDWORTH V.3.1 AGA (EDR OR HDR) 57.99

AMIGA UTILITIES

DATASTORE DATABASE SYSTEM 44.99
DELUXE PAINT 3 ..... 9.99
DELUXE PAINT 5 (W/BENCH 2.04+) 57.99
DIRECTORY OPUS 5 ..... 52.99
FINAL WRITER (RELEASE 3) (4 MB & HDR) 64.99
GB ROUTE PLUS 36.99
HOME ACCOUNTS 2 ..... 24.99
HOME ACCOUNTS 9.99
KINDWORDS 3 ..... 21.99
MINI OFFICE 29.99
MONEY MATTERS 36.99
PEN PAL 27.99
TERMITE COMMS PACKAGE (1 MB RAM AND KICKSTART 2.04+) 33.49

AMIGA A1200 - BACK AT LAST

AMIGA A1200 WITH SOFTWARE 399.99

THE BEST VALUE AMIGA EVER RETURNS, FEATURING A POWERFUL MOTOROLA 68020 32 BIT COUPLED WITH THE ADVANCED GRAPHICS ARCHITECTURE (AGA) CHIPSET OFFERING OUTSTANDING GRAPHICS CAPABILITIES. THE A1200 COMES WITH 2 MB OF RAM, MOUSE, BUILT IN DISK DRIVE, SYSTEM SOFTWARE AND MANUALS PLUS A NEW SOFTWARE BUNDLE TO BE CONFIRMED (CALL SALES FOR DETAILS). IN ADDITION SPECIAL RESERVE WILL BE OFFERING A FURTHER **8 FREE GAMES** TO ACCOMPANY THE AMIGA A1200

A1200 & SOFTWARE 399.99
A1200 & SOFTWARE + 170 MB HARD DRIVE 499.99

AMIGA CD32 - HI TECH, HI SPEC, HI VALUE

CD32 CRITICAL ZONE PACK 179.99

WITH CD32 CONSOLE OFFERING GRAPHICS CAPABILITY OF 262,144 COLOURS ON SCREEN FROM A PALETTE OF OVER 16 MILLION. HIGH QUALITY AUDIO WITH THE ABILITY TO PLAY MUSIC CD'S. PACK INCLUDES SEVEN GAMES, LIBERTION, CANNON FODDER, MICROCOSM, ULTIMATE BODY BLOWS, PROJECT X, DIGGERS AND OSCAR ON CD PLUS A 6 BUTTON CONTROL PAD

OVERDRIVE HARD DRIVES FOR A600 & A1200

HIGH SPEED EXTERNAL DRIVE PLUGS INTO PCMCIA SLOT. ACCESS TIME CIRCA 12 MS. WITH AQ TOOLS DISK
OVERDRIVE V.11 560 MB **214.99**
OVERDRIVE V.11 810 MB **299.99**

INTERNAL 2.5" IDE, HIGH SPEED DRIVES

KIT COMPLETE. NOTE THAT OPENING YOUR AMIGA MAY INVALIDATE THE WARRANTY. PLEASE STATE A1200, A600 OR SX-1 ON YOUR ORDER

170 MB HARD DRIVE 13 MS ACCESS TIME 64K CACHE **124.99**
340 MB HARD DRIVE 12 MS ACCESS TIME 64K CACHE **189.99**
510 MB HARD DRIVE 12 MS ACCESS TIME 64K CACHE **279.99**
340 MB AND 510 MB 2.5" HARD DRIVES HAVE A THREE YEAR WARRANTY

OVERDRIVE CD ROM 169.99

FOR A1200, COMPATIBLE WITH MANY CD32 TITLES, DOUBLE SPEED MULTI-SESSION DRIVE COMPLETE WITH INTERNAL POWER ADAPTOR AND UTILITIES/DRIVERS DISK

TRAPDOOR RAM UPGRADES

1 MB A500+ RAM WITH CLOCK **35.99**
1 MB A600 RAM WITH CLOCK **44.99**
4 MB RAM BOARD FOR A1200 WITH CLOCK **179.99**
4 MB + FPU RAM BOARD FOR A1200 WITH CLOCK AND 33 MHz FPU **239.99**

OTHER PERIPHERALS

FAX/MODEMS WITH TERMITE SOFTWARE BT APPROVED, MNP 5/V.42 BIS COMPRESSION GIVING UP TO 57,600 BPS, AND **FREE** INTERNET STARTER GUIDE
TORNADO 14,400 BPS FAX MODEM WITH TERMITE AND CABLES **124.99**
TORNADO 28,800 BPS FAX MODEM WITH TERMITE AND CABLES **214.99**
GOLIATH CD32 HIGH POWER SUPPLY HIGH POWER 200 WATTS **49.99**
COMMODORE AMIGA POWER SUPPLY STANDARD 23 WATTS **25.99**
VIDI AMIGA 12 AGA COLOUR VIDEO DIGITISER FOR ANY AMIGA **51.99**

STEREO TV AND MONITOR

NOKIA 14" NICAM DIGITAL STEREO TV/MONITOR WITH TELETEXT **214.99**
MADE IN GERMANY, WITH REMOTE CONTROL, NICAM STEREO SOUND, ADJUSTABLE SOUND DEFLECTORS, SQUARE TINTED TUBE, TELETEXT, HEADPHONE SOCKET, SCART INPUT FOR PIXEL PERFECT PICTURE

MICROVITEC 1438 MULTISYNC MONITOR **279.99**
FOR AGA AMIGAS WITH **FREE** STEREO SPEAKERS. 0.28 DOT PITCH MPRII LOW RAD EMISSIONS. SIGNAL AND POWER LEAD SUPPLIED WITH AMIGA ADAPTOR

1084 14" COLOUR MONITOR **199.99**
FOR ANY AMIGA WITH BUILT IN STEREO SPEAKERS. TILT AND SWIVEL STAND. COMPOSITE AND RGB INPUTS. 0.39 DOT PITCH RESOLUTION. COMPLETE WITH ANIGA MONITOR LEAD

COLOUR PRINTERS

CITIZEN ABC COLOUR DOT MATRIX **144.99**
24 PIN, 80 COLUMN, 192 CPS, 5LQ/1 DRAFT FONT, **FREE** LEAD AND EASYSTART SOFTWARE

PANASONIC KXP2135 COLOUR DOT MATRIX ...**304.99**
24 PIN, 80 COLUMN, 200 CPS/64 LQ, 7 FONTS EXTREMELY QUIET 43.5 DBA, TRACTOR FEED

CANON BJC 4000 COLOUR INKJET **304.99**
64 NOZZLES, 80 COLUMN, 8PPM, 360 DPI, 5 FONTS AND **FREE** PRINTER LEAD

PRINTER ACCESSORIES

PRINTER STAND FOR ANY PRINTER TO ALLOW STORAGE OF PAPER BELOW PRINTER **7.99**
TRACTOR FEED KIT FOR CITIZEN ABC PRINTER **36.99**
COLOUR RIBBON FOR ABC PRINTER **14.99**
COLOUR RIBBON FOR PANASONIC KXP2135 PRINTER **18.99**
INK CARTRIDGE (COLOUR) FOR CANON BJC 4000 ..... **19.99**

QUICKSHOT 137F PYTHON WITH AUTOFIRE **9.99**

SAITEK MEGAGRIP 2 WITH AUTOFIRE **11.99**

THE DRIVING COMBINATION

FREEWHEEL STEERING WHEEL (DIGITAL) WORKS AS A JOYSTICK OR WITH FOOTPEDAL, IDEAL FOR DRIVING GAMES **12.99**

QUICKJOY FOOT PEDAL TRANSFERS JOYSTICK FUNCTIONS TO PEDALS ... **12.99**

COMPETITION PRO EXTRA CLEAR MICROSWITCHED WITH AUTOFIRE **11.99**

TECHNOPLUS TP511 PAD AUTOFIRE WITH TURBO, FREE DUST COVER **12.99**

EKLIPSE MOUSE 290 DPI, MICROSWITCHED **10.99**

ALFA MEGAMOUSE 400 400 DPI, MICROSWITCHED **13.99**

MOUSE MAT WITH SPONGE BACKING **4.99**

DISKS ETC.

ALL DISKS ARE HIGH QUALITY ERROR FREE AND SUPPLIED WITH LABELS

PACK OF 10 TDK MF-2DD 3.5" DISKS **7.99**
PACK OF 50 TDK MF-2DD 3.5" DISKS **22.99**
PACK OF 10 SPECIAL RESERVE HD AND FREE PLASTIC FLIP TOP DISK BOX. **7.99**
PACK OF 10 TDK MF-2HD **9.99**
PACK OF 50 SPECIAL RESERVE HD AND FREE PLASTIC FLIP TOP DISK BOX. **23.99**
PACK OF 50 TDK MF-2HD **27.99**

EXTERNAL DISK DRIVE FOR AMIGA OR SX-1 3.5", 880K FORMATTED CAPACITY, QUIET, HIGH QUALITY, SLIM LINE DESIGN. **47.99**

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 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
AND EIGHT GREAT CLASSIC GAMES FREE

TRUST QUAD MULTIMEDIA PC EX VAT

DX4/100 + 4MB	1199.99	1021.27
DX4/100 + 8MB	1324.99	1127.65
DX4/100 + 16MB	1499.99	1276.59
PENTIUM P90 + 8 MB	1524.99	1297.86
PENTIUM P90 + 16 MB	1774.99	1510.63

WITH ALL THIS AND FREE TWO YEAR ON-SITE WARRANTY
PRICES AND SPECIFICATION SUBJECT TO CHANGE

SEGA SATURN WITH VIRTUA FIGHTER - SAVE £50 - £349.99

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

CHIN

(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 04.08.95 E. & O.E. SAVE = Saving off full retail price. Inter-Mediates Ltd, The Maltings, Sawbridgeworth, Herts.

AMIGA COMPUTING

Get writing - so I did

Our first letter this month comes from an obvious madman who... well, let him tell it in his own words:

I was prompted to write to you by the little snippet you placed on page 46 of Issue 88, namely "GET WRITING." One single letter won't exactly give you your requested sackful, but if you print this in its entirety, then, what with your answers, you'll have at least a couple of extra pages to fill!

Firstly, I must thank you for your excellent magazine which I have followed carefully and with pleasure ever since issue one. I am so very glad (as I'm sure are a good many others) to see from your well-balanced coverage that Escom are about to rekindle the glowing embers of our old 'friend' C=. I am sure they will help...

...I next got my itchy fingers on a 1k Acorn Atom, which was held together, as I remember, by much black adhesive...

...Then at last, I got my eager hands on a WB1.2 Amiga 500 complete with 'Hi-res' 1084 monitor, bought on the strength of...

...Enough of the lovey dovey sentimentality though, and on to my first ever cry for help from your good selves...

I've loved the idea of computers for as long as I can remember (I dreamed nightly of ENIAC and COLOSSUS for months)...

...I have the ubiquitous 1Mb 3.5" floppy drive (df0: Anticlick provided courtesy of Magic Workbench. A replacement for DF1: should be on its way by the time you read this), one 40Mb Quantum P40S SCSI hard drive... ...I have 1Mb ChipRAM as standard with 2Mb FastRAM added, plus 4Mb of 32-bit wide SuperFastRAM on an SSL A5000 68020 accelerator board.....I also have an MFM hard drive, formatted to 29Mb, on the far side of an A2288 bridgeboard...

...I also upgraded to WB2.1 about a year ago. In retrospect, I have found this to have been quite a wise move, although I sometimes wish I had waited for v3.1 to arrive...

...the MFM drive now acts as my DH2:, named 'Archive', formatted as a single OFS partition with the standard WB format command (Yes, I did see the warnings about IDE drive low level formatting before undertaking the task!). For a couple of years all was fine...

...The drive was to all intents and purposes dead. Finally, I checked it through with QBTools, again without much success...

...I salvaged what was possible and again re-formatted. All subsequent system checks showed up as OK – no read/write errors being reported. This same failure has now occurred three times in the last three months and happy is no longer my middle name! Each time the system fails it reports a "Read/write error on track xxxx"...

...use the bay that would free up for an internal CD-ROM drive. They are obtainable quite cheaply these days, are they not?...

...On the subject of DTP, I run ProPage 4.0 but CacheEdit gives me an 'Out of memory' error when launched from the Workbench...

...perhaps I should have stuck with PageStream, 'cos from what I've seen of WordWorth it's m.u.c.h. t..o..o.. s...l...o...w...! Mind you PPage doesn't exactly zip along does it? Thank heaven for the Article Editor...

...Oh how I wish I had my old Star LC10 colour printer back. Considering its age, it seemed to be able to 'turn its hand' to anything and everything I threw at it – and I sometimes did!

... Finally, if you've read this far, thanks for bearing with me and I look forward to a, doubtless abridged *(you're not kidding – ed), version of this letter appearing...*

Long live the Amiga and Amiga Technologies GmbH! May their bytes never fall to bits.

Simon Smalley, Lincoln

Mr Smalley, who is apparently 50 going on 15, sent us a total of 2720 words, accompanied by several sheets of print out detailing his assigns, Workbench, Kickstart and DOpus version numbers, and Sysinfo printouts of the performance of his machine in several areas. In answer to your queries, Mr Smalley, I only have room for very curt answers now, so pay attention:

1. It's probably because your MFM drive is so old that you are having so many problems. Your best bet would be to ditch it as soon as possible and get a sensible size SCSI hard drive for your machine. I believe you should be able to use a partition for the bridgeboard, although it might be a little tough to set up. You should be able to pick up a 500Mb drive for around £150 these days and you can never have enough hard drive space.

2. The MegaChip is good but, yes, I think you would have problems fitting it along with the A5000.

3. It's been a while since I last used ProPage, but I thought that CacheEdit was part of ProPage 3 and made redundant in version 4. As you say, try switching back to PageStream. Frank Nord tells me the latest version is pretty impressive.

4. Not much you can do about a print head for a dot matrix other than replace it unfortunately.

Lastly, thanks for your letter, it brightened up the office on a dull day and I hope you will be able to put the £50 prize money to good use in upgrading your machine.

Your views and questions aired and answered by our man of letters, Ezra Surf

Helping hand I

I have just bought a second-han Amiga 500 with hard drive, Workbenc 2.1, etc. and I was given some of you magazines. You gave away Persona Font Maker on the cover of your Ma 1994 issue number 73. Do you have back issue of that number that I ca buy?

K Stevens, Belp

You can certainly write in for a bac issue, we do have issue 73 in stoc The address is the same an cheques or postal orders should b made payable to IDG Media an made out for the amount of £4.4 Alternatively, if you have a CD-RO drive you can buy the Personal Suit of programs on CD for only £39.9 from our Personal Paint coverdis offer.

Helping hand II

I am the proud owner of an A500+ wi 4Mb RAM, a 120Mb hard drive and PC card as well.

After rearranging my hard drive files managed to lose the software that ru

the PC card and it's driving me mad trying to find the correct software, so I was wondering if you could help me in my quest?

The PC card is a product called the KCS PC PowerPacker. I hope either you or a fellow reader may be able to help me.

Julian Sorfleet,
13 Kershaw Avenue, Little Lever, Bolton BL3 1QS

Hopefully there's a kind reader out there who would be willing to help Mr Sorfleet out as KCS seem to have disappeared into the aether.

Letters please

You asked for more letters pages, but what you don't seem to realise is the fact that you have to write into us. To give you a further incentive, we will offer £50 from Adam Phillips' wages to the best letter written. But please keep quiet about it, as Adam doesn't know...

Musical instrument doesn't interface

I have spent a lot of time, effort and money trying to get a good Midi kit together, only to find that the device meant to run it all is incapable of the task by design. I don't know if any of your readers has had similar problems with the CD32/SX-1 but I would like to make them aware that the CD32/SX-1 module is not compatible with MIDI interfaces and does not come with any Workbench disks.

The advertisement placed by Silica states quite categorically that the SX-1 turns the CD32 into 'a fully functioning Amiga 1200 compatible computer.' This is not the case. I have asked for a refund from Silica and I will get back to you if I encounter any problems.

Roy Sharp, Liverpool

Yep, I've just checked Silica's ad and it does still say that. I expect the best that can be hoped for is that you get the refund and that other people can learn from your example.

Helping hand III

I am a newcomer to the Amiga having recently purchased a second-hand Amiga 500 Plus in 'as new' condition and in its original packaging.

The machine came with a RocGen genlock with a test disk. However, when this test/demonstration disk is inserted after Workbench 2.04 all goes well with the colour bars test, but every time I try the SCRIPT icon I get the message 'Software failure.'

I am unable to refer back to the original owner who has moved house, so could you please inform me who the agents are for the RocGen genlock and/or where I could obtain another (uncorrupted) demo disk.

Also with this kit, there is a strip of Amiga fax cards, all with the suffix 3. On the Music 3 card it states that other fax cards were issued with the June and July issues of *Amiga Computing* and that back issues are available. Could you tell me if that is still the case and if so what the price would be.

A E Lott, Reading

Again, any readers who can help Mr or Ms Lott with their problem should write into me and I'll pass the information on. As to the Amiga fax cards, they were printed a fair while ago and I'm afraid our back issues don't go back that far.

My wife won't let me

I have recently purchased an Amiga 600 upgraded to 2Mb. My problem is with expanding the system. I was originally planning to fit a hard drive and an external floppy, modem and printer. However, every time I go to the local computer shops they keep stating that I would be wasting my money and that I should buy a PC. What I would like to know is whether this is true and if not, what size hard drive would you recommend as a minimum. Also, is the Internet accessible to my computer and Workbench 2.

If you recommend buying an A1200, that would unfortunately be out of the question as my wife is already nagging me about wasting money on the A600.

Andrew Brooks, Rochdale

It might have been better for you to have bought an A1200 in the first place, Andrew, but no you don't need to ditch the 600 and buy a PC. The minimum size for a hard drive is whatever you can afford, but try to get as large a drive as possible – it'll soon fill up.

Once you've got a hard drive and a modem (preferably 14.4k or 28.8k) you will have the minimum setup necessary for Internet access, although to be able to use Mosaic to browse the World Wide Web properly you will need Workbench 3.x.

AC

Escom advice

While it is good news that the Amiga has finally come out of limbo (having finally been bought out by German company Escom) I have some fears which I would like to voice:

1. Once Escom begin producing the A1200 again, I hope they will take their time to do so instead of just rushing it out. After all, look at what happened when Sir Clive Sinclair attempted to meet demand with his Spectrum in the 1980s – they were not even tested before hitting the shelves and consequently, many machines included serious faults.
2. Will many of the software developers who decided to quit the Amiga when they believed it to be a lost cause actually come back to it again? Some of them seem to have made up their minds already and just don't give a damn about the A1200's future any more.
3. How can we be sure that Escom don't make the same mistakes Commodore did with regard to the launching of new machines and keeping its customers informed? I hope they do not intend to blitz the market with a fleet of 'super machines', as a more sensible option would be to just create one and let it be the basis of all future developments. The original A500 is a prime example of this and even today it is still a grand machine – I know, a friend of mine still has one!
4. Do Escom intend to fully support the Amiga with a vigorous advertising campaign and perhaps show it as a 'serious' computer and not just something for the kids to play on?

David O' Conner, Dinnington, South Yorkshire

We will undoubtedly continue to get a lot of mail about the Escom situation, so let's go over David's points one by one.

1. Escom are a very large company with massive manufacturing resources unlike Sinclair Research in the days of the Spectrum, so I think it's unlikely that you'll ever see Amigas with as many problems as those early Spectrums. However, I do agree that Escom shouldn't just rush things through. They need to pay attention to bundling deals, packaging and advertising to ensure the A1200 and A4000T regain their place in the computing hierarchy.

2. Certainly you will see the re-emergence of Amiga developers, distributors and retailers. As mentioned in this week's CTW, retailers are crying out for all things Amiga, but they can't get new games or serious software to meet the demand.

3. I think that Escom actually do need to diversify the Amiga range in order to capture the niches left for it. The A500 was a great machine as you say, but it's time to move on.

4. We'll just have to wait and see.

SOFTWARE 2000

We stock over 6500 QUALITY PD & SHAREWARE

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)

ALL OUR PD DISKS ARE

99P

OVERSEAS POST & PACKAGE RATE
(Europe add 25p per disk for P&P)
(Worldwide add 50p per disk P&P)

PLEASE SEND YOUR ORDER TO EITHER OF THESE DISTRIBUTOR
YOUR ORDER WILL BE SAME DAY DESPATCH VIA FIRST CLASS P

SOFTWARE 2000
Dept (ACD6)
48 NEMESIA
AMINGTON
TAMWORTH
B77 4EL ENG-
LAND
TEL: 01827 68496

SOFTWARE 200
Dept (ACD6)
9 WILLS STREE
LOZELLS
BIRMINGHAM
B19 1PP
TEL: 0374 6780

TEL OR FAX: 01827 6849

SPECIAL OFFER
2 FREE DISKS

BUY ANY 10+ DISKS
CHOOSE 1 EXTRA DISK FREE
BUY ANY 15+ DISKS
CHOOSE 2 EXTRA DISKS FREE
TICK CHOICE

CUT & RETURN THIS TOKEN FOR THE FREE DISK SPECIAL OFFER
(PHOTO-COPY OF THIS TOKEN ALSO ACCEPTED)
OFFER ENDS OCTOBER 25th 1995

MUSIC

M001 BEASTY BOYS - We Want Some Pussy songs
M002 MICHAEL JACKSON - Song BAD
M003 DO THE HARTMAN
M005 100 C64 TUNES (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
M031 BETTY BOO (2) needs 2 drives (brilliant)
M058 SGT PEPPER (2disk)
M072 MADONNA - Hanky Panky Song
M084 C64 GAMES MUSIC
M116 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)
M196 LIE TAXI
M189 MICHAEL JACKSON (Smoot Criminal)
M194 JESUS ON E's (2 disks)
M209 FAVE - More Hits
M262 A TO Z OF C64 GAMES MUSIC (4) Brilliant
M314 DICK TRACY (Madonna) (2)
M335 STAR TREK & STAR TREK NEXT GENERATION (2)

PRINTER MANAGER

U427 PRINTER-STUDIO excellent print results
U595 PRINTER TOOL - includes typewriter, spooler etc
U602 PRINTER LABELS print out label characters
U750 STAR PRINTER STUDIO - for all star printers
U794 SEIKOSHA STUDIO - For all Seikosha printers more specific commands than generic driver
U797 PANASONIC STUDIO - 9 & 24 pin printer driver & util
U794 CANON PRINTER STUDIO not ADO (1.3)
U795 EPSON PRINTER STUDIO FRONT ENDUTILITY - shareware
U797 CITIZEN PRINTER MANAGER for all Citizen printer owners containing more useful printer util & drivers.
U800 LATEX PRINTER DRIVER - Latex driver for use with Latex Compiler
U797 OKI PRINTER DRIVER largest collection

VIDEO TITLERS/TOOLS

U181 VIDEO NOTE database for your video collection.
U261 VIDEO POP-UP MENU - Excellent menu titler prog
U350 VIDEO TOOL (3) loads of video utils. Recommended
U564 TITLE ESUBTITLE - new video titler
U569 VIDEO TITLER - Excellent in video
U582 DESKTOP VIDEO 1 & 2 (best video titler tool) catalogue
U671 VIDEO TITLER - Great new VIDEOS titler
U513 VIDEO TITLER (2 disks) more VIDEO TITLER-BEST
U620 VIDEO TITLER (not WB 1.3) Easy to use Video titler loads of features
U921 WORKBENCH VIDEO ANIM (2 disks) Requires D.Paint 3/4. Very high quality
U922 CAPTION MACHINE excellent Video titler
U923 VIDEO MANAGER (not A500 1.3) Video cataloguing system
U925 Video Titler - very good video titler

Top Various Utilities

U024 D-LOCKS protect your disk & files
U027 ULTRAPAINT & SUPERPAINT 3 - 3D model programe
U029 CAN DO programing language
U045 DARKSTAR (vol 2+vol 2-5) load of util
U058 DISK MAG CREATOR - newsmd disk magazine
U117 NORTH C compiler (2) brii programing language
U122 1.6 copy/delete/move file loads very easy
U131 TETRA COPY play tetris while copy disk great
U135 MOST USE UTILITIES (2) very useful util coll
U145 C-POP PROFFESIONAL - Excellent disk copier
U146 C-MANUAL 2(4) Teach you how to programe in C
U169 PAINT AND ANIMATE create your own animation
U170 BIORHYTHMS V4.01 - Works out your own biorhythms
U184 MASTER SEKA V1.6 completes Assembler language
U186 UNLIMITATED DISK CREATOR all tool on are here
U187 4 COMPUTER AID DESIGN - Commercial product
U188 SHOWIZ slide show maker 24+ wipe effect
U191 DIR 8 copy/delete/move/run file using a mouse
U220 AMOS-PD (over 1 Vol)good AMOS util & disk copier
U223 GRAPHIC UTILITY(3)lot of graphic converter tool.
U226 SID MOST USE UTIL load of very useful util
U229 SLIDE-SHOW CONSTRUCTION KIT very easy to make
U240 ARCHIVER TOOLS pack more file on to your disks
U242 BUILDER - create your own programs on disk
U243 The A-T COPIER (not Wb3) 13 disk copier.wow
U254 FRACTAL UTIL load of fractal programe. brii
U282 SOUND BUILDER create your own sounds.
U284 COPY & CRACK TOOLS back up your software
U300 SUPERBASE 4 - Excellent database
U301 AUTO DISK LABELLER catalogue your disk
U321 GRAPHIC UTII 1(3) load of brii graphic util
U322 GRAPHIC util 2(3) even more Graphic tool
U333 SCENERY MAKER more than adequate
U334 EMULATOR COLLECTION II (lot of emulator)
U335 FREE COPY back up commercial games
U337 MODEL 3D Brilliant 3d object designer
U338 MULTI VISION (2) disk/files utilities
U340 HACKER-TOOLS many useful hacker tool
U350 POOL TOOL-project horse with best chance
U351 RACE RATER Similar to above. but both
U358 STAR CAT 2-more catalogue disk easy
U359 SEEKER find lost file on floppy & Harddrive
U360 R.P.G 2(3) adventure creator
U363 DISK REPAIR KIT-salvage & repair damage disk
U372 WORD SORT process ASCII file
U377 MODEM UTILITIES more modem software + packer util
U380 UNICOPY fantastic disk copier
U399 FRACSCAPE V1.2 new fractal similar to VISTA
U400 TOTAL TRACKER V2.6 music maker
U420 SPEED BENCH (not Wb1.3) create auto boot wb
U425 NIB 2 very popular copier
U426 THE POWER COLLECTION(not WB3) lot ripper
U442 SYSINFO test & print info on your AMIGA sys
U444 PAINT FARM font creator/editor/design new font
U457 WHOA 3 (DISK) Detailed installation on 31 files
U470 FINAL FONTIER 1 (2 disk) Star-trek magazine
U473 FINAL FONTIER 3 (Scrolls) Star-trek magazine
U480 HARD DISK CLICK-Hard/Floppy disk organiser
U490 B-tec Util- Amazing pack with 207 utilities
U491 PAGE FLIPPER V3-Best comic writer programe
U492 WORK-STATION(2disk WB1.3 only)WB-replacement
U495 HARD DISK UTIL brii collection of Harddisk util.
U496 FONT KIT-Excellent font editor
U498 WORK-MATE-15 brilliant disk util compilation
U501 THE MUSIC CONSTURCTION KIT(state amiga own)
U503 DISK MASTER-Excellent disk organiser
U505 VIRUS-KILLER & DISK RESALVAGE/REPAIRE KIT
U507 VIDEO MANAGER-Excellent video cataloguing system
U509 ULT BOOTBLOCK 40-Excellent bootblock creator
U510 ULTIMATE BOOT-BLOCK Collection II +more
U512 ENCOR UTIL-Jon MOST USE UTIL 2 brilliant
U515 WIT COMPLETE UTIL 20 most use util

U521 SPECTRA PAINT III Very good paint packages
U550 SCENERY CONSTRUCTION KIT fractal .recommend
U551 ASSASIN BOOT BLOCK over 50 bootblock protector
U555 CROSSWORD CREATOR (not WB3) crossword maker
U561 PEEK CHECK a full POOL PREDICTION program
U568 ICON CONSTURCTION KIT icon making program
U569 ICON ready made (4 disk)
U590 NUMERIC PAD V2 EMULATOR (A600 only)
U591 DEGRADER (not WB 1.3) A500 emulator
U592 ALL ADA-main older programe run on A1200
U600 C64 EMULATOR II util, & documents
U601 DISKSALV 9 + ABACKUP (not wb1.3)
U610 THE CHEAT COMPENDIUM for over 450 games
U620 HOW TO CODE IN C (2disk) + many examples
U622 ACTION REPLAY V1.5(A500/600)-cartridge on disk
U623 ACTION REPLAY V1.4(A1000 ONLY)-cartridge on disk
U645 PC EMULATOR V.2.31(W83 only) SVGA PC emulator
U650 COPY & CRACK TOOL 2 more powerful copy program
U680 WB 1.3 SUPPORT V3(good disk & keyboard util)
U689 FORCASTER V2-horse racing prediction program
U690 ASSASIN COPIER (lots)include Xcopy3/dcopy ect
U694 SUPER DUPER 3 (NOT WB1.3) View disk copier
U696 AMITOOL PROFFESIONAL disk database tool
U699 MEGACHEAT V3 +many games cheat even for)
U700 ANIMATION CONSTRUCTION KIT(1.2 + only)
U702 V MORPH V2.creats smooth morph animation
U703 PICS 2 PICS 2disk)Excellent picture scaling.
U705 TRONI-CAD-best create circuit board+examples
U707 GAME TAMER(3&4)-(2)For even more games cheat.
U708 LET'S WILL & TESTAMENT-write personal will
U710 PERFECT-PAINT 32 Very easy to use paint package
U714 ENGINEER KIT various test kit for Amiga
U718 MANJUNI 1-BEST-More the best disk magazines creator
U721 FONT FARM V3 + load of font + font viewer
U723 SCENERY RIPPER rate as the best sound/graphic riper
U724 PARNEI SET UP(2) require for the abovnaction
U725 PARNET CABLE MAKER INSTRUCTION project save CCC
U726 MASTER MANUAL(more)(2) complete manual.
U729 ASSASIN BOOT UTIL 50 boot install/remover util
U730 SOFT AGA (A500plus or A600) & min 1.5 meg
U731 A - Z GAMES CHEAT for over 1000 games
U732 MINI MORPHS create TERMINATOR 2 effect
U736 AWARD MAKER II+hundred of ready made
U737 ASSASIN CRUNCH & ASSASIN 3.1 (2 only)
U739 S.KICK PROFESSIONAL v3.2 Various K-start
U739 TURBO IMPLOOER V3.1 powerful disk cruncher
U740 CRICKET 2005 Excellent cricket game+ACA disk
U741 HD-DISK TOOL 80X +many more Disk util recommend
U742 HOT TO DO ALMOST ANYTHING(2)complete + util
U743 Util .Disk .Maker v3. MAKE AUTO BOOT DISK
U744 FRACTAL MANIA+BIOMORPH Brilliant collection
U746 AF WORK BENCH (3)(WB 1.3 Only) replacement
U746 3D GARDEN DESIGNER & view from any angle brii
U747 ASTROMY V2 predict star planet prediction.
U749 GEN-CAD (DISK) Detailed installation on 31 files
U750 MUSIC CATALOGUE(not A500(1.3) very easy to use
U751 SYTEM CHECKER TOOL must for any Amiga owner
U753 HARD DRIVE UTIL-MAINTENANCE DRIVE UTIL
U754 PARBENCH installer (complete)
U755 PCB CAD electronic/latest circuit board designer
U756 WB MENU LAUNCHER(menu replacement) to use
U760 ICON PLUS (2DISK) Hundreds of stunning ICONS
U761 RELOCKIT +1 viewer WB1.3 emulator
U762 FAKE FAST MEMORY make more older software run
U777 TELE TEXT RECIEVER project. highly recommend
U778 DISK DRIVE UTIL-Excellent drive copy & more
U779 SYSTEM CHECKER-Excellent disk util
U780 WB MENU LAUNCHER V2 for WB2 +3 replacement
U781 PROFESSIONAL -Excellent Disk copier
U782 DISK MASTER 40-Excellent disk organiser
U783 POOL WINNER GOLD must for all gamber
U788 HARD DRIVE MENU-Hard disk menu (re MMU)
U790 WINDOW BENCH V2 (WB 2/3) 2disk new workbench replacement, include lot of useful utilities
U791 COMPUTER DIAGNOSTIC TEST V9 amiga Fault finding

U800 PRINT A CARD include many ready made
U801 BUSINESS CARD V1 lot of printing util
U805 DISK PRINT print contents disk labels
U807 FONT & PRINT Load of utilities to view & print your font.RECOMMEND
U830 POOL WIZARD -(football) prediction
U832 DIVENDEND WINNER - Prediction programe
for use with LITTLE WIZARD VERSION. ZETTER Ect
U834 FORCASTER 2.02 New Horse prediction Prog
U835 AUDIO MAGIC 4-Proctracker V3,Exootic ripper
U843 AUTOPLAY ect. 6 document ect
U846 C64 emulator V3 (2DISK) C64 emulatorlatest
U848 SPECTRUM EMULATOR V2- Spectrum emulator
U850 EAGLE PLAYER (2disk) the Ultimate music player
U851 DELI-TRACKER (2disk) play all music format.
U861 SOUND DISK (2) MT V2 MIDI software
U862 DISK COPY Pack- collection of 10 disk copier
U883 OPTI-Utils 1-over 30 disk copier/Optimise ect
U885 SKRUTTON BENCH MARK V6.5 (Not Wb1.3) system
U886 COMPLETE WB UTIL (2DISK) very useful Util co
U887 DISK REPAIR KIT 4-Include disk repair,
undelete,softprotect,diskmonitor,diskmaster
U950 STEREO-SCOPIC V2.a (not A500(1.3)
This is the RAMDOM DOT STEREOGRAM generater.
U951 FORTH PROGRAMMING (NOT WB 1.3)
U957 SCALA BACKGROUND (2disk) High quality imag
U960 PHOTO LAB 2 (2disk)Excellent image scaling.
U961 MAGAZINE E 3(2disk) science fiction magazine
U963 AMOS & AMOS PRO COMMAND EXTENSION
U967 PRO-GAMES-Pro sports for various latest games
U978 DELUXE PAINT 4 BUDDY SYSTEM-(2) Get the ma
out deluxe paint instan on line for use
U981 VIRUS CHECKER V6.56 + AUTO UPDATE MONITOR
U982 DIRECTORY OPUS V4 add Extra Command/Butt
U983 MAGIC WB & MAGIC MENU - Both Latest versio
U986 VIRUS-WORKSHOP V5.1-the best Virus killer
U987 GRAPHIC-CONVERTER (2D) Convert picture ec
U988 EXTRACT Auto unpacks great disk Latest versio
U989 AUTOBOOT DISK MAKER V4 -very useful
U993 IMAGINE STUDIO V2.(2D) The best PD image
(picture) processor over 5 meg required
commercial costing hundres of pound. (not kt.3)
U999 PROTECTION-CRACHES Speed up disk loading Excel
U970 HARDDRIVE SECURITY & Large collection of ho
scarity programe eg Lockout2,Password & many more
U971 MAGIC MENU & DOUBLER
(Equinox)WB1.3
U972 CHEAT FOR 800 + GAMES, LEVEL CODE V3.(2
U974 C64 GAMES INSTALLER 2 instant tape games to
EG.ZOOL2, Rise Of the robot,Mortal Combat2 & more
U975 DISK TO PRO. Create entire disk. (not 2)
U976 MAGIC SLECTOR V1.4-Change your WB back d
U977 MAGICWB ICON ARCHIVE (3) 1000's of MGwb to
U978 SPEEDBENCH(2)-protect your hard disk speed
U979 ICON ACHRIVE(3) 1000 s of normal IconiAny Ami
U984 TEXTURE STUDIO. Render Various Texture
for use with vista & ect not (1.3)
U995 PRO-GAMBLES V2 must for all gamblers.
U996 BIOTORY BEATS gambling programe to win bet
U997 HD GAME INSTALLER 3 Install latest game to hd
U998 EXOCTIC RIPPER V3.b Latest ripper
U999 HD INSTALLER Menu system to use
U1000 MAGIC OPUS VOL 2 & 3 (2D) more Dopus tutor
U1001 CAR DATA ANALYST-check your car performan
U1002 MOTO LAB ANALYST-Motor engine tuner
U1003 LOTTERY WINNER V2-new version
U1005 BASIC-ELECTRONIC-Teach all about electronic
U1006 MOTO LAB ANALYST-Motor engine tuner
U1007 ALL NEW HARD-DISK & FLOPPY DISK TOOL
U1009 DATA ALERT 3-explain why your computer cras
U1010 WB2.04 INSTALLER-install A500+/A600 to HD

STAR-TREK MANIA

IF YOU LIKE QUALITY STAR TREK RAY-TRACE ANIM THEN THIS PACK IS FOR YOU, 2 DISKS OF STUNNING STAR TREK ANIMATIONS, BETTER THAN HOLLODECK SERIES. COMPLETE STAR TREK MANIA PACK. ONLY £4.99. PLEASE STATE AMIGA WHEN ORDERING

STAR TREK & STARTREK NG

One of the most complete startrek shows ever including 100s of pictures from the original & new startrek NG series. Must for all star-trek fans. 6 disk set – only £5.95 run on all Amiga

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 AS Booklets (very handy). Easy to use.
A must for any Amiga owner with printer.
Printer Pack (5 disks) only £4.99

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

AMOS

This is the largest collection of Amos hints, tips, graphic routines, procedures, subroutines, programs, scrollers routines, library & some of the top games & source code. This pack will help you write more quality pact & much faster programs.
10 DISK PACK....£10.90 compatible with a
Amos & Amos Pro

GAMES

G222 MEGA 21 GAMES amazing 21 games
G235 DRAGON-CAVE brilliant 3D puzzle games
G240 QUADRIX very addict essential game
G242 TAKE EM OUT -like to Operation wolf
G253 DESTINE MOON BASE Arcade conversion
G272 TANK BATTLE 2 great new tank game
G278 ARCADIA the best ARKNOID clone
G300 O-ROID cross TETRIX and INVADERS
G307 SUPER MARIO 3 (2) like MONKEY ISLAND
G310 NEBULAR Excellent 3D shoot em up
G316 GALIC Excellent 3 level arcade
G317 HYPER-BALL Speed ball -level editor
G320 GHOST-SHIP Very good 3D adventure
G325 DEMENTIA - Excellent 3 level arcade
G326 MEGA GAME COLLECTIONS III 3 top games
G329 MADONNA NUDE PUZZLES for 18+ only
G330 CYBER-NETIC Excellent 9 level arcade
G331 CYBER-NETIC Brilliant 8 way blaster
G334 DONKEY KONG -(A1200 order code AGA29K)
G335 CRAZY SUE II- Hard platform game
G342 SUPER SKODA CHALLENGE (5 track editors)
G344 STAR-TREK similar to RAINBOW ISLAND 2
G355 OOODY very cute & extremely addict
G356 WONDER LAND amazing graphic recommend
G360 DELUXE PACMAN + best pacman ever release
G367 CARD GAMES collection
G369 WIZARD-DOMAINS-dugeon type games
G372 MARIO (not A1200) arcade tetrik clone
G373 AIR ACE II Very playable shoot em up
G384 OTHELLO best PD version
G386 MOUSE IMPOSSIBLE very addictive puzzle
G390 TETREN most polish Tetriz ever release
G392 STRIKEBALL brilliant base ball clone
G399 TRAILBLAZER brilliant (not A1200)
G400 FIGHTING WARRIOR like street fighter
G404 DOMINOES very one of it kind on PD
G406 TOTAL WARS -strategy like chess in space
G411 BATTLE CAR 3D car racing
G431 NESTER CARD GAME- hours of fun for a quit.
G435 ROULETE amercan roulete excellent
G438 BALLBLAZER 2 C64 conversion
G441 E-TYPE 2- very good asteroid great graphic
G443 OLEMPIAD DISK (2D) Olympic sport events
G444 MONOPOLY GAME - bank, property & monopolies
G446 OBLIDOX excellent Arcade/Puzzle game
G448 BROACHUTE JOUST quite playable
G450 CASTLE OF DOOM (2) graphic adventure.
G460 WIBBLE WORLD GIDDY Large platform game
G467 CHESH FRUIT- good fruit machines
G479 AMOS CRICKET cricket game
G488 EXREAM VILONCE 2 player battle out
G489 AMIGA MACHINES very difficult puzzle
G490 MEGA BALL 2 very playable break out clone
G491 BOUNCE & BLAST brilliant platform 10/10
G492 ZOMBIES & ENEMIES excellent platform
G494 MERCANERY SIMULATION 3D wars games
G496 LIFE -simulation very interesting
G500 TRANSPLANT dozen of brilliant arcade.
G501 KLAWZ THE KAT-great platform games
G511 HIGHWAY HELL like SPY HUNTER on the C64
G531 OPERATION FIRESTORMS-brilliant
G534 CASTLE KUMQUAT similar to Alien breed
G536 BLACK DAWN brilliant graphic adventure
G538 MORIA 5.4 The best Dungeon & dragon
G539 BRIDGE Good version of bridges
G540 COMIC ATTACK Comic adventure

G541 REBOUNCE 2 player futuristic breakout
G542 ROAD TO HELL brilliant car racing
G544 SUPER-BOWLING New vertical shoot em up.
G545 KUNGFU CHARLIES mix with platform fun
G546 RAID 4 latest vertical scroll shoot em up
G548 QUIZMASTER very good quiz programe
G552 ELEVATION games base on lift ??
G560 IMPERIAL WALKER -Base on STAR WAR games
G567 STAR WARS (2) like MONKEY ISLAND
G657 AMOS LOADSA MONEY best FRUIT-MACHINES
G659 MR MEN OLYMPIC (2D) many event to complete
G660 4 L.C.D DREAM 4 small hand held games
G664 NEIGHBOUR GAMES (2D) base on the TV series
G665 TIMEWARP - Excellent 9 level arcade
G667 GOLF (2DISK) One of the first & best COMPUTER GOLF
G669 AMOS CRICKET 2 New Amos cricket simulator
G688 MIDGET MEN MAYHEM space shoot em up game
G672 JIGSAW (2DISK) very playable jigsaw games
G673 BOBBY GARDEN + DIGGER (NEW) Brilliant
G674 HOLY GRAIL PUTTY (not WB1.3)
G675 TIME RUNNER amazing graphic adventure
G680 SPACE INVASION 2 + Fantastic Galaxsin
G681 AUTOMOBILES - PD version of ROAD MARK bril
G682 BANDIT MANIA - Brilliant fruit machine demo
G685 PANIC DEFENDER (not A500) brilliant asteroid
G689 GUN FIGHT (not A500(1.3)
G690 THE REAL POPEYE 64 (a500 1.3 only)
G692 SPACE DEFENDER (not A500) brilliant clone
G698 AMIGA-BOY-Game boy emulaor + tetriz
G703 DETHEIL IN SPACE. Recommend
G735 OVERLORD Brilliant arcade MOON ALERT
G737 SERIOUS BACKGAMMON The best in PD BG
G751 STAR WORLD (2disk) Brilliant Thrust
G773 UN-SENSIBLE SOCCER very close to
Sensible soccer games. RECOMMEND

101 GAMES 2
PRICE ONLY £10.99
This is the very latest all new 101 games compilation pack 2 containing some of the very best a PD games like Zaxx, Wonderland, Dragonflies etc. Much too many to list.
All games on selectable from an easy to use menu & most games come with full playing instructions
COMPATIBLE WITH ALL AMIGAS

G772 FRUIT MANIA -Brilliant Fruitmachine.
G774 TNCKLE TREAT -like DOOM on the PC
G777 STAR WORLD (2disk) Brilliant Thrust
G782 SOLO ASSAULT 3D like Wing Commander
G783 SEED OF DARKNESS-Brilliant graphic adven
G784 ARK-ATTACK Breakout clone. RECOMMEND
G785 THE GREAT GOLD RAID- very addicted
G787 ANT WAR V1.9 (LATEST) not 1.3
G789 PUZZLE GAMES (2) Excellent
G788 TASK FORCE very good MIND SHADOW clone
G790 GREEN FIVE Amazing 3D graphic like
G791 PICTURE-BREAK BINGO CALLER
G792 MARTIAL SPIRIT like Street fighter II
G795 EXCELLENT CARD GAMES collection
G809 BLITZ 2 fast action shooting games
G810 EXIT 13 Brilliant puzzle
G811 TEMPORAL ENCASEMENT-graphic adventure
G812 ADAY AT THE RACE-V.Goodhorse racing games
G820 BOULDER ORIGINAL with 80 level
G821 BOULDERDASH construct Construction kit
G822 BOULDER COLLECTION 2(3) 150 level (2disk)
G859 BOULDER DASH with 640 level on 8 disk
G860 ALIEN NET WORK-new Spacing invader
G862 BATTLE FORCE excellent text adventure.
G863 GNU CHESS the best chess with 10 level
G868 SWORD OF YIGG Graphic adventure
G867 POWER-TETRIZ for 1 or 2 player
G868 SUPER SMASHING TETRIZ
G870 CHESS II & CHECKER One of the best around
must for all CHESS or CHECKER player
G871 GRAVITY FORCE 2 1 or 2 player thrust clone

G672 SCHNEBITZ Commercial quality puzzle games
G675 DELEXE GALA v2.3(new) add new feature &
bourns gamme + 2 player RECOMMEND, get it now
G676 LEARN & PLAY (2)Excellent Educational
G678 QUANTUM-Maze colect & escape type games
G679 RAG TO RICHES - like MONOPLY

NEW
101 GAMES PK 3

New 101 pack 3 contains over 100 games, runs on all Amigas, only £11.99 offer buy any 2 packs together & receive a free £4 token for use with next order. This offer cannot be used with any other offer current & subject to condition apply.

G884 WIPE OUT-mindless blasting gamse
G885 GODZILLA Another shootem up
G886 SUPER MEGA DUNGEON - new fruit Machine
G888 DRIVING MANIAC 3D (fill vector like
Indi500) car racing- very fast. RECOMMEND
G889 PLANET FALL - Lunar Lander clone
G891 BUCK TOOTH ADVENTURE Very good multi
level shoot&collect em up RECOMMEND
G892 PENGO 2- Maze type games. Recommend
G893 SUPER OBLITERATION Blast asteroid very
similar to PARANOI 2 lot of weapon RECOMMEND
G894 SUPER INVASION II -New SPACING INVADER
G897 THE SHEPERD Brilliant POPULUS clone. REC
G898 ALIEN GENOCIDE (2) Shoot aliens in space.
G899 PUCKMAN, One of the better PacMan arround.
G900 SUPER-BATTLE ZONE 3D (not WB1.3)
G901 M*A*S*H (MARTWAR 2) play very similar to
LEMMING & WORM, with load of Weapon (Brilliant)
G904 LAST NINJA DIEM (2) many different games
G905 CIBERTECH (3) excellent ALIEN BREED Clone
G906 HANGMAN any one for a game?
G907 ACE PILOT Space Flight games
G908 COLOURMANIA slide/Klatrz type puzzle games
G910 HARRY-HADDOCK- Brilliant platformer games
G911 SUPER-TRADER- Brilliant, Smash n' Grabber
car/tank ect to win. extremly addicted. get it
G913 ARCADE MACHINES (4 DISK) Vol 1 & 2 (2d)
G914 HELICOPTER-play like Desert strike
G915 COW WARS. Very addicted 2 player games
G916 MONOPOLY - Very like Monply.
G919 COP THE LOT Pro Latest Lottery predictor
G920 LOTTERY PROFFESIONAL This version use
G921 SCRABBLE (board game) The best version
G922 JET WILLY 3 - excellent platform games
G923 AMMING ENGINE-Superb car racing
G924 POWER-UP MACHINE Graphic shoot shoot
G925 SUICIDE-MACHINE Operation wolf style
G926 ZONE 39 Superb 2 player 3D blaster games
G927 BOING V3. Great platformer, recommend
G928 PUNTER-Animate horse racing games
G929 ARCADE ACTION (2)(3) include LION KING
G930 WHEEL CHAIR GLADITOR-Very fun to play
G931 NIMBLE-Brilliant New arcade puzzle.
G933 BLAST-O-MATIC & THE NEW GUNNING (2)
Superb 3D adventure. RECOMMEND
G934 RS ROCKET (NEW)very good rockets games
G935 BATTLE SHIP- the finest PD version
G936 LAST LAP - Fast car racing

GAME HINTS & CHEATS II

Play your favourite game for age? but can't get to the end of level or game? Having problem with some games? 5 disk pack with 1000s of games cheat/help/level code action replay poke etc., should help you finish many games – suitable for all Amigas only £4.95.
Update & release on 28 July '95

EDUCATION

E001 KID PAINTS. superb paint special for kids
E002 COLOUR IT brilliant computer colouring book
E003 TREASURE SEARCH find the hidden treasure.
E004 LEARN & PLAY (2)Excellent Educational
E005 LEARN & PLAY 6 more education programes
E006 SPANISH TRANSLATOR Spanish<> English
E008 MR MEN (WB1.3only) brilliant adventure
E009 ASTROMY tutorial on solar/star ect system
E010 SIMON & SPACE MISSION (2) simon games

E011 EDUCATION PACK 1

pack with dozens of education programs ranging from maths & science to spelling & typing. Excellent value for any Amiga. 5 disk pack only £4.95

E019 DINOSAURS teach you all about Dinosaour
E021 STORY LAND (2) interactive puzzle games rec
E022 LANGUAGE TUTOR teach you 4 language
E023 MATHS COLOURBOOK Excellent Maths print aid
E024 EASY SPELL 8 improve your kid spelling
E025 SCRABBLE require 2-4player. brilliant
E026 WORD-PUZZLE Brilliant word game
E027 OSWALD Very colourful large cartoon game
E028 EVOLUTION breed your own hybrid
E031 IQ TEST 1 + IQ GAME Excellent
E033 TYPING TUDOR very good typing tudor
E034 SPELLING TUDOR very good Typing
E036 BASIC TUDOR learn about Amiga basic Prog

EDUCATION & 21 GAMES PACK

Collection of the very best of education programs and a 21 games pack, a very popular combination for kids (run on any Amiga) 5 disks pack only £4.95

E038 AMIGA TUTORIAL 7 part tutorial
E039 COMPUTER CARE Look after your about AMIGA
E040 GUIDE TO LOWER BACK PAIN tutorial the
E041 How to avoid back problems recommend
E041 KID ALPHABET display all alphabet letter
E042 FRACTION & SILOUEST maths & games excellent
E043 MATHS TUTOR Superb tutorial on maths
E044 STEAM ENGINE V2 graphic & tutorial
E045 ENGINE tutorial & animate graphic
E046 GAS TURBINE ENGINE tutorial & animate graphic
E047 STIRLING ENGINE tutorial & anim graphic
E048 ANCIENT EGYPT Excellent learning of dream
E051 INVISIBLE WORLD brilliant recommend
E052 FISH TANK turn your amiga into a FISHTANK
E054 DOMOLITION MISSION simple but addictive
E055 WORD POWER solve crossword puzzle ect good.
E056 WORM HOLE simple game ideal for children.
E057 SPELL CATCHER catch the correct spelling
E058 CROSS MAZE & CRYPTOKING 2 excellent kid games
E059 AMMING ENGINE-word the word & it related. Brii
E061 KING JAMES BIBLE (C64) complete bible excel
E066 TARROT clairvoyant in a instance
E068 SUPER 3D Superb 3 d game to learn ?
E070 MATH DRILLS teach all basic math skill Vgood
E071 ERROR INFO give info why your amiga crash
E075 WORLD-WAR 3 great strategy game. WORLD-WAR
relaese program eg simulate Starprobe/ molecuber ect
E076 SCIENCE an excellent collection of science
ideal for all who interested in science. Highly recommend. this pack conte on 4 disks
E080 KIDPRINT great children paint programme.
E081 ASTROMY PACK- This is a large collection
of programe relate to astromy, can help to locate
certain or star position ect. must for anyone
who studies astromy or hobby. great (4DISK)
E073 PICTURE & LETTER learn to reads- first step
E074 AMIGA BEGINER GUIDE tutorial on Amiga
E085 NODDY PLAYTIME demo >Very good
E080 KID PIX more excellent paint programes
E081 D.T.P FOR KID easy to use, excellent
E092 SING & RYHMES sing a song
E094 HIGH WAY CODE TUTOR question on highway code
E096 READ & LEARN (2D) THREE LITTLE PIGGY Story
E097 BACK TO SKOOL vol 1 collection of the best
E098 BACK TO SKOOL vol 2 in education programe
E099 BACK TO SKOOL vol 3 & games. RECOMMED

E100 LITTLE TRAVELER information on world wide
E101 WORLD GEOGRAPHY world with map & text.
E103 DISCOVERY OF THE ATOM. tutorial on the Atom
E106 TYPING-TUTOR GUIDE Excellent typing tutor
E107 TRUMPTY FIREWORK ALPHABET. Very interesting
way to teach your child the ALPHABET
E108 MATHS-TUTOR (2)(3) Excellent
E109 MR MEN OLYMPIC (2D) many event to complete
E110 MR MEN (2D) info on early TV series
E112 HOW TO DEVELOPE PHOTOS Excellent
E115 ELETRONIC WORLD(3D) Complete KJames BBS
E116 HOW TO DEVELOPE PUZZLE (2) Solve all type games
E122 WORD FACTORY Brilliant, teach kid words

KID DISKS 1,2,3,4,5

Excellent collection of education programs. Ideal for teaching kids various subjects while retaining the fun of a game element. 5 disks pack only £4.95 or buy individually for only 99p per disk. Order Code KID DISK & No. 1-5

E125 JURASSIC PARK lots of info on dinosaurs
E126 CHILDREN SONG 2 contain 5 excellent song
E127 CHILDREN MENU (A500 version) Astrology
E128 ASTRO 22 PRO.V3-The latest astrology program
that answers questions on the position of the planet,
eclipe, zodiac position etc. RECOMMEND
E130 FRENCH VERO TESTER should help you with fre
E131 EARLY ADULT DATA BASE (2 DISK) Info on early TV
E132 WORLD HISTORY BOOK
E133 LITTLE TRAVELLER II (2) Infomention on world wi
E134 ALL ABOUT ANIMALS TV series encyclopedia
E148 CHESS & TUTOR - FULLteach you how to play ch
E150 BIBLE QUIZ A quide to internet & superhighway
E161 CLI & SHELL TUTOR Excellent tutorial
E162 DELUXE PAINT GRAPHIC TUTOR V 3 & 4 RECOMM
E163 MAGIC SQUARES Excellent learning aid
E164 PAINT IT (not A500(1.3) latest COLOURING BOOK
E165 KEY BOARD TRAINER An excellent typing tutor.
E166 MEMORY ENGINE Excellent memory exercise
E168 CROSSWORD CREATOR-design crossword
E169 CHESS II & TUTOR brilliant Chess II games
E170 HISTORY OF AVIATION Excellent disk
E171 CHILD FAVOURITE-Education prog
E172 ANIMAL ENCYCLOPEDIA about animal
E175 FRANTIC GUIDE TO COMPUTER(2D) brilliant & fu
E177 CYBER PUNK 2 for cyberPunk freak only
E178 ASTRO CATCHER catch the correct ASTRON GL
THE COMPLETE GUIDE COME WITH HUNDRED OF SCR
SHOTS TAKEN FROM THE STAR-TREK SERIES. SUPER
E181 STAR ENGINEERING Excellent collection of engin
E182 VIRUS WORKSHOP V4 comprehensive guide
E184 MATHS VIDEO 2 disks
E185 WORKBENCH 3/3 GUIDE On line help/Complete
E210 LEARN & PLAY 3 Latest Education & Games
E240 ANIMAL-WEATHER (2d) ANIMALPHIG (2d)
Brilliant teach your child about animal
E241 COMMS GUIDE V1.1 beginner modem user
E242 SAILING - WEATHER (2d) superb computes
guide to the weather, recommend
E249 MATH ATTACK- Maths relate games for kids
E242 ANIMAL-LAND-Ideal for young kid. Exce
E243 PICTURE-MATHS-Maths program for kids
E246 BEGINNER GUIDE TO WB 3 (A1200 only)
E247 GLOBE FACT(2) fact about planet earth
E248 KID ONLY. 6 excellent game to play with
E250 BANTAMS Sends latest present games
E251 BIRSTHDAY HISTORY V2.2-
E252

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

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. Compatible 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 LEFT FOR DESCRIPTION

1000 SPECTRUM GAMES pack

Come on very large number of disks, twice more games than the SPECTRUM GAMES CD. Spectrum V2 emulator included, hurry order now, limited pack available only £39.99

C64 v3 PK4

Special offer C64 v3 and 45, 100, 200 games pack with extra 55 C64 games making 400 C64 games & utilities disks. Comes on large number of disks + games list and loading leaflet. Only £24.99.
See C64 or Spectrum advert box for more details

AGA A1200 & A4000 ONLY

THIS LISTING ARE FOR USE WITH AGA AMIGA

AGA001 EXTENSION DEMO Stunning demo, fast landscape anim and a rotating obj, regard the best AGA demo
AGA002 FRACTAL GENERATOR fractal in 256 colour.
AGA003 WORKBENCH HACK many hack/toy/blanker etc
AGA008 NEW SUPER KILLER know know & kill over 310 type of virus must for all A1200 owner
AGA007 WINDWARP very first demo for the A1200
AGA008 KLONDIKE DELUXE AGA (3D) the best A1200 card game with glamours lady as cards face 18 + only
AGA011 SLEEPLESS NIGHT 3
AGA012 PLANET GROOVE Truly A1200 Demos
AGA013 MOTOR INVADER 2 (2D) Brilliant INVADER game
AGA015 POINT OF SCALE Great A1200 only demos
AGA016 CHROMAS- Fairly good demo.
AGA017 WORLD OF MANGA (4DISK) magnificent Japanese comic slide show include Japanes Chick etc recommend
AGA021 MAGIC WORKBENCH Improve the look of your WB & add some function to your WB really BRILLIANT
AGA022 WB 3 UTILITIES load of Wb 3 only utilities
AGA023 U-CHESS the best chess program games so far but require 4 meghytes. Brilliant graphic
AGA024 WORKBENCH 3 SCREEN Great back drop
AGA041 ADULT SLIDE Vol 1-9 (2 disk each) *see below
AGA042 BODY SHOP VOL 1-7 (2 disk each) *see below
AGA043 ITCHICK vol 1-3(2disk each) *see below
To order any disk above just state disk code & volume no? (remember 2 disk per volume)

DEGRADER

AGA006 A1200 FIX DISK COLLETCION 1
AGA001 A1200 FIX DISK 2 COLLETCION 2
AGA004 RELOCKIT V1.4a latest. run A500 SOFTWARE
AGA005 A1200 FIX DISK VOL 3 (new July 95)
All disk above are design to make any old A500-A600 Amiga programs/games etc to run on your A1200/A4000 MUST FOR ALL AGA AMIGA OWNER. RECOMMEND

AGA067 A1200 UTIL - AGA TESTER, SYSINFO etc
AGA068 ACTION REPLAY V4 Complete ACTION REPLAY.
AGA069 BIADFIGHTER 2 brilliant street fighter clone
AGA100 AGA BLIT2 SCREEN BLANKER
AGA101 FAST GIFF 2 display GIFF pic in Workbench.
AGA102 AGA DIAGNOSTIC - NEW system tester
AGA103 BLACK BOARD AGA decent Image processor
AGA105 QUICK GRAB AGA -grab AGA screen PICTURE
AGA107 WORLD BEYONDS 1 (3) stunning 256 COLOUR fantasy art. leave atari user breathless
AGA114 SMELL LIKE CHANEL NO5 brilliant demo very trace picture ever release on the A1200
AGA121 MAGIC FACTORY 1 STAR TREK (5 disk)
AGA130 AGA UTIL v1&2 (2) AGA util compilation
AGA135 AGA UTIL V3 &4 (2) more of above
AGA137 MULTIBOOT- 4 various version A500 EMU
AGA139 OFFICIAL WORKBENCH 3 HARDDRIVE INSTALLER
AGA139 WB3 HARDDISK PREP & INSTALLER installing
AGA140 CROSS DOS PLUS v5.1 read/write PC files
AGA142 SUPER LEAGUE 3 -latest manager games
AGA144 SPEAK & SPELL - educational software for kid
AGA145 BIG TOPS (18 + only)HMMmm
AGA146 KELOG LAND -brilliant platform games
AGA150 ACTION REPLAY V5 - NEW UP DATE TO V4
AGA155 GIGER TRIZ very playable 256 colour tetriz
AGA162 FATAL-BLOW new STREET-FIGHTER 2 clone
AGA164 CINDY CRAWFORD Vol1 (2 disk) latest release
AGA166 INFESTATION (3 disk) The ultimated AGA demo
AGA170 CINDY CRAWFORD Vol II (2disk) amazing
AGA172 VIDEO TRACKER AGA-ultimate demo maker
AGA178 MAGIC WB EXTRA vol 1 & 2 (2disk)
AGA180 GIF BEAUTIES Vol (11-18) 8 more girls disk
AGA189 FRIDAY AT 8 another brilliant AGA demos
AGA193 ASSASIN MULTIVISION AGA pic viewing util
AGA195 ALIEN FRENZE 2 player blasting +power up
AGA194 BIG TIME SENSUAL (2disk) SPACE BALL 2
AGA203 B4SQUERADE 2disk brilliant puzzle games.
AGA205 RAM JAM 64 it cat be done (2disk)
AGA220 EXPLIXIT 2 DEMO more AGA sexdodone.
AGA254 COMPLEX ORIGIN 2disk require 2 diskdrive
AGA255 TREASURE OF TUTANKHAMUN- eductaion tool
AGA260 LOVE 2 disk-simply brilliant DEMOS
AGA261 AGA UTIL 7 & 8 (2 disk) .More USEFUL util

AGA234 KNOTTY-Stunning AGA sliding pictre puzzles
AGA240 LOTTERY WINNER hope fully will improve your chance of winning a jack pot..GOOD-LUCK
AGA241-258 AGA GAME-GALORE AGA 01-18 lot of games
AGA251 PACKMAN AGA -the best pacman yet
AGA252 ROCKET PD - Super thrust clone brillant graphic for 1 or 2 player
AGA253 REAL DEMO stunning special effetc
AGA254 DIRT AGA Brillant 256 colour effetc.
AGA255 DELIGHT EXPLORE excllent demo
AGA256 KEFEREN AGA Demo lot of effetc
AGA257 MINOMIST RAVE great rave music.
AGA258 OXYGENE Fantastic demo
AGA259 INTEL-OUT another very good demo
AGA260 SOMEJUSTIC94 Demo of the month brillant whirl effetc. RECOMMEND
AGA262 TO THE DEATH very good STREET-FIGHTER clone with very good graphic.
AGA263 GEORGE GALAXO (2disk) brillant multilevel shoot/platform game. RECOMMEDN
AGA265 MISSILE OVER ZENON (2disk) Brillant 3D missile commander with fantastic graphic
AGA266 TEAM-HOI DINO PLATFORM excellent dino platform Note:this disk was a commercial games
AGA274 MUSIC 2 SURVIVE 2disk 8 excellent music master piece. well worth getting
AGA271 RAVE MAXIMUM OVERDRIVE II (2disk)
AGA278 CHANNEL Z ISSUE 1 (AGA) (2disk)
AGA base disk magazines. RECOMMEND
AGA disk magazine topic.demo/music
AGA285 WORKBENCH BACKDROP VOL 3
AGA295 DE-LUXE MONOPOLY- Board game.V addicted
AGA296 DONKEY KONG Arcade classic conversion
AGA297 BOMB PAC Extreamly good to play
AGA298 ROCKET 2 sst deep underground brillant graphic. better with 2 player
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 PAMSHOP VB (3) more bikini beauties
AGA305 TIMEZONE (2) V.Good graphic adventures.
AGA307 DENTAWOLF dooms demo
AGA308 NAXIS -Really show what AGA graphic co do
AGA310 FEARS (2bl- doome clone demo
AGA312 JINX (2d) Fantastic arcade puzzle
AGA313 RAM JAM THE TASTE DEMO.very wicket demo.
AGA315 ILEX MYSTIC. New AGA demos
AGA320 KLONDIKE 3 (4disk) Hd require & 2meg +we also have a list of 25 cards for above
AGA321 HOT-BABE 1 (2) MUST BE OVER
AGA322 HOT-BABE 2 (2) 18
AGA323 HOT-BABE 3 (2) BEFORE
AGA324 HOT-BABE 4 (2) ORDER ANY
AGA325 HOT-BABE 5 (2) OF THE HOT-BABE PACK
Hundred of quality Magic wb icon & back drop
AGA388 DESK-TOP MAGIC- 32 animated screen blanker
AGA389 WAR OF THE WORLDS -full 3D games
AGA390 FEAR 2. Brillant 3D graphic games like
AGA391 PSSST Amiga version of Spectrum games
AGA392 CHILD MURDER(4)Horror graphic adventure
AGA390 FEAR II -Brillant 3D game play just like DOOM on the PC Garrenteed you impress.
AGA398 PD EMULATOR V3- Latest PC emulator
AGA400 HYPER RACE (2) Super racing games
AGA410 CINDY CLAWFORD (3) new
AGA411 ELLE MACPHERSON (3)
AGA412 CLAUDIA SCHIFFER (3)
AGA413 BIG GIRLS II (3)
AGA414 GIRLS GIRLS (2)
AGA415 NIKY TAYLOR (2)
AGA417 KYLIE MINOUGE (3)
AGA418 FEMALE BODY BUILDER (3)
AGA419 EXCELLENT CARD GAMES 3 latest
AGA420 POKER & BLACK JACK DELUXE (3)4MEG
AGA421 COLOUR WB make your WB more colourful
AGA422 PINBALL CRACER Demo on the Amiga,
AGA423 DRUG STORE DEMOS (2disk)
AGA424 DREAM WALKER (2) Demos
AGA425 MYSTIC DEMOS(2) 95 excellent demos
AGA426 ORIGIN 2 (2 DISK), Amazing

←— SEE PAGE 1 FOR MORE SOFTWARE FOR YOUR AMIGA

SOFTWARE 2000

PD LIBRARY NOW AVAILABLE ON A DOUBLE CD SET

This double CD contains the most complete range of PD software ever released. Our CD collection is unique, just look at our double page advert for titles list and software packs. Excellent

Nearly 1500 disks, Many Pack List on this advert & many more etc

Release Dater September 95 ... Double CD Price £34.99

£5 off

£5 off RRP the Software2000 double CD on all advance orders received by 29 August 95

Compatible With All Amiga Equip With CD Rom

This Software2000 Double CD contains all the original disks from the Software2000 Library & all the packs in the current and previous adverts & many more (just see our advert). No lucky dip or unknown software. Only the best and most popular from our library

18 DEMOS

MUST BE 18 AND OVER

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
X30 MEGA-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 CINDY CALENDAR '95
X96 HOT BABE 1
X97 HOT BABE 2
X98 HOT BABE 3
X99 HOT BABE 4
X100 HOT BABE 5
X101 BIG GIRL II
X102 FEMALE BODY BUILDER
X103 GIRLS GIRLS
X105 ELLE MACPHERSON
X106 CLAUDIA SCHIFFER

CHANGE YOUR WORKBENCH TO MAGIC WORKBENCH

WE NOW HAVE THE NON AGA MAGIC WB FOR THE A500-A600 etc

AGA 21 MAGIC WB ... FOR A1200

MAGIC WB 1.3 for non AGA Amiga

Now it is possible for A5000/A500 plus/A600 etc to run MAGIC WB on their Amiga. They can even use any Magic WB extra ICON below run in conjunction with your existing WB config will improve it by 500% no additional memory required.....MAGIC WB only 99p

MAGIC WB EXTRA

Hundreds of brilliant Magic WB Icon/Backdrop 8 or 16 colour. Must for all Magic Wb users. Only £1.98 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 MagicWB on (WB2 use Nickpref) (WB3 WB pattern)

MAGIC WB.29 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)

Hard drive user
TAKE MAGIC EXTRA WB VOL 1-6 IN LHA FORMAT FOR ONLY £7 DECRUNCH TOOL INCLUDE

NEW

UFO THE CLOSE ENCOUNTER

A Disk pack with hundreds of real life document of UFO sighting, kidnaping etc., many so secret that only recent law made them available. This pack comes on 6 disks and only costs £5.95 run on all Amiga

UFO THE CLOSE ENCOUNTER II

Like above but with even more document on UFO, ALIEN etc.
THIS PACK COMES ON 4 DISK SET ONLY £3.96

U.F.O. – THE UNKNOW

Even more fascinating document 100s case of kidnaps, aminals, mutilation etc., some with actual photos to back up the claim. Compatible with all Amiga, request Special AGA version if required.
Full pack comes on 9 disks only £8.99

BUSINESS SOFTWARE

U007 TEXT PLUS 2.2b easy to used word processor
U020 BANKING Home account program
U028 LABEL Printer design your own labels
U057 CALV 1.3 Excellent Database prog. RECOMMENDED
U058 DISKCATALOG Disk Catalog the best PD DTP available
U126 BUSINESS CARD MAKER (not A1200) brillant
U127 DISK BOX LABELLER very handy. Get it now
U011 BUSINESS CARD MAKER - can Print in color
U013 DATA BASE WORKSHOP (2) brillant FACK
U021 SPREAD SHEET very easy to used spreadsheet
U022 DISK BASE Very powerful Database. Easy to use
U112 RM DATABASE powerful database + full DDC
U114 AMIBASE (2disk) The best database yet
U027 TEXTRA Can edit serval document at once
U029 FLEXI-BASE Small easy to operate database.
U030 PENNY WISE Very powerful database.
U031 LOCAL C Great base for lots of fuctions
U096 TEXT ENGINE V3.4 - full feature wordprocessor
U095 LITTLE OFFICE (2disk) database/spreadsheet/wordsheet
U040 HOME BUSINESS JOURNAL - Easy to use database
U060 BOOK KEEPER GATABASE many other packages.
U066 HOME ACCOUNT-Account program
U068 ABACASH one the best account prog. Excellent
U069 JOURNAL full feature account program
U070 LOGICAL MOTE Database & world map.
U086 DATA BASE completation - best seller to date
U087 MORTGAGE calculate mortage repayment rate etc
U088 MONEY PROGRAM very good account program
U089 CASH FLOW MANAGER V2.9 new account program
U090 HOUSE INVENTORY for home insurance
U091 ADDRESS PRINT V2.1 Store & print addresses
U092 TEXT PLUS 2.2b pro requires HD & 2meg
U093 TYPE ENGINES V4.1 latest 36,0000 word spelichecker.
U094 SEVEN FILES PRO records, for insurance
U112 EDWORD PROFESSIONAL truly the best wordprocessor
U113 Spreadsheet spreadsheet max 65843 cells
U116 FAT ADVICE ANALASER - money prog.
U117 ADDRESS PRINTING print addresses on labels
U118 PAY ADVICE V2. account program
U119 LABEL-Much labels etc. New
U120 THE MONEY PROGRAM - Accounts
U121 LOANS ACCOUNT
U124 UNIFORM One of the best invoice makers
U125 ACCOUNT MASTER V3.2 (latest) programe up to 1000 entries per account

CLIP ART

Very high quality clipart suitable for any PAINT or Desitop Publishing package

C01 Accents
C02 Aircraft
C04 Alphabet1
C06 Animals1 (5)
C07 Babies & Children
C09 Bears (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)

SAMPLES

All samples below are in standard IFF format which will load into SO Protracker, Octamed etc.

S141 RIPPED MODULES No 1-10s Rip music from various top demos
S142 TECHNO MODULES No 1-4 Brilliant Technomusic
S144 INSTRUMENTS No 1-14 Up to 180+ various instruments per disk
S511 ABERCROMBIES INSTRUMENTS
S512 DRUM SAMPLES SOUNDS (2 disks)
S514 HOUSE MUSIC INSTRUMENTS
S516 PSYQHOSIS INSTRUMENTS
S517 BACKING INSTRUMENTS (4 disks)
S521 HOUSE MUSIC INSTRUMENTS 2
S525 SOUND FX INSTRUMENTS (2 disks)
S526 KRANGS INSTRUMENTS (3 disks)
S528 CLAYS INSTRUMENTS VOL 1-10
S536 VOCAL INSTRUMENTS Vol 1-4
S144 PIANO INSTRUMENTS
S546 WINDSTRING INSTRUMENTS
S547 PERCUSSION INSTRUMENTS (2)
S548 RAZISH HOUSE SAMPLES (4 disks)
S549 TERMINATOR SAMPLES (4 disks)
S550 RUNNING MAN SAMPLES (2 disks)
S141 PREDATOR SAMPLES (2 disks)
S144 TECHNOTHONIC SAMPLES
S146 F1 INSTRUMENTS Vol 1-4
S149 STAR TREK SAMPLES
S170 SHAMEN SAMPLES
S171 KLF SAMPLES
S172 BOMB THE BASS SAMPLES
S173 C&C MUSIC SAMPLES
S174 RAZISH SAMPLES (2 disks)
S175 ELECTRONIC SAMPLES
S176 RAVE SAMPLES VOLUME 2
S178 SILLY SAMPLES
S740 HORROR SAMPLES (2 disks)
S146 HYBRID INSTRUMENTS
S140 X1 SOFTWARE RAVE SAMPLES 2
S181 MEGA-MODULES (1-4) 6 disks full of auto play music/songs. Brilliant
S171 HOUSE SAMPLES (3 disks)
S176 KONGE SAMPLES (3 disks)
S186 SPECIAL FX VOL 1 (1-10 disks)
S210 SPECIAL FX VOL 2 (1-10 disks)

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 (2 Disks)
Brilliant instant on line help/tutorial on every Imagine command. RECOMMENDED.

100 VARIOUS IMAGINE OBJECTS
100 all sorts of objects ranging form disk box to a Starship Enterprise. Only £7.96

60 IMAGINE - Aliens
61 IMAGINE - Star Trek
62 IMAGINE - Babylon 5 1
63 IMAGINE - Babylon 5 2
64 IMAGINE - Manga Babe
65 IMAGINE - Dalek
66 IMAGINE - Dinosaure
67 IMAGINE - Robocope
68 IMAGINE - Human Body (4)

LITTLE OFFICE 2

New Release includes
Mail Business Letters
Word Processor
Calendar
Name & Address Database
All this for only £1.99
COMPATIBLE WITH ALL AMIGAS

HARD DRIVE & DISK DRIVE

Space Doubler
Epic 1.1 to double the size of your HD or Disk Drive storage capacity. Recommended:
U971 EPU V1.6 ONLY 99p
SUITABLE FOR WB2/3

MANGA AKIRA

Brillant 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

PLEASE ORDER A DISK CATALOGUE ADD 70P OR 3 X FIRST CLASS STAMPS WITH ORDER

acas

AMIGA COMPUTING ADVICE SERVICE

ACAS is here to solve all your embarrassing personal Amiga problems

Final Writer woes

My situation has now reached desperation stakes and I am in serious danger of taking a hammer to my Amiga 1200 and the HP520 that is attached.

I am running Final Writer 2.1, and the problem is that I cannot print past 10.5 inches – anything after this is being ignored and not carried over to the next page. I have exhausted all the options in the program and in the Workbench preferences.

Also, I would like to expand my memory via a trapdoor board. I recently acquired a 4Mb SIMM from an old 386 PC. Could you please tell me if it is possible to utilise it in any of the current A1200 memory expansions. Finally, the button menu utility you gave away is marvellous, but certain programs will not run, even though the path entered is an exact replica of opening the program using the mouse. Why is this?

John Cleator, Liverpool

I would be inclined to say you do not have enough memory for Final Writer to create the entire page, but if this was the case it would simply produce an error message. All I can suggest is you reduce all the margin values in the page and section menus to zero. Set the page size to A4 and draw a couple of boxes, one inside the other, in the bottom two inches, and see how much you are then losing. I use Final Writer with an HP550C and find it will allow me to print up to 11 inches. After that the printer cuts the rest off.

Unfortunately, the SIMM you have appears to be a 30-pin SIMM, so is only 16-bit and cannot be used in any of the A1200 expansion cards.

As for your last query, many programs require what is known as an Assign to be made – simply just running the program is not enough. They use the Assign to find other files that they require to run. Galaga, for example, uses a Music assign which points to the directory containing all its music modules.

Assigns are not very nicely implemented on a basic Amiga, being hidden away and only changeable via the shell. A program such as MCP or

A600 keyboard

I have recently acquired an Amiga 600 and I am annoyed by the lack of a numeric keypad and would like to attach one. I have several PC keyboards lying around. What I need to know is if the A600 will support a real numeric keypad?

R Ried, Fife

The A600 has the same type of ROMs as used in the A500+, so will support a numeric keypad. I do feel, however, that the biggest problem is how you will attach the PC keyboard.

As the A600 uses a ribbon cable the same as the A1200, it will be quite a task to convert the PC keyboard's 5-pin connector to the Amiga's ribbon. If you do manage it, there is a program on Aminet to help remap PC keyboards for use with the Amiga.

CD Dilemmas

In the near future I am going to upgrade into the world of CD by adding a CD drive to my computer. I have taken a fancy to Power Computing's dual drive, but have just noticed the price drop in the CD32.

I am now wondering which to buy, as I know the CD32 can be attached to the A1200. Will the CD32 act in the same way as a CD drive? I do not want to use the two separately for CDs and floppies, but want to use the two as one.

I have seen some CDs that are only CD32 compatible, and also know about the FMV option, which inclines me to buy the CD32. I will be using the CD drive for CD32 games, audio CDs, public domain, and the odd encyclopaedia. Which would give me the greatest access to the huge world of CD?

Just one more quick question – how do I get OctaMED sound files to play from my startup-sequence?

Andrew, Northamptonshire

As with most things in life, which ever decision you make will involve compromises. If you must have 100 per cent CD32 compatibility, then the only real option is to buy a CD32. You can then use something like the CommunicatorII to allow you to access the CD32 via parnet.

Basically, you get an icon on the Workbench and can access the CD32 like a normal device, such as a floppy or hard drive. The major down side to this is you will only be getting around 20 to 40K a second transfer, which is not much better than floppy access.

Your other option is to go for the Power Computing offering. That consists of either a dual or quad-speed CD, and the excellent Squirrel SCSI-II interface. The CD32 emulation might not be perfect, but most recent CD32 games, and hopefully all future releases, will be written with these CD32 emulators in mind. Therefore, future compatibility should be much better.

The other thing you should keep in mind is that with the last option you are getting a SCSI CD-ROM and a PCMCIA SCSI-II adapter. This means that there is a good possibility that they could be used on a future Amiga, or any other computer, with the right software, and the fact you have a SCSI interface means it is possible to fit up to another six devices onto the SCSI chain.

The biggest benefit, however, is that you can access the CD at its maximum transfer rate – 300k a second for a dual-speed drive. That is around 15 times faster than the Communicator II, and if you are planning to use PD discs a lot then this could be quite an important point.

I would go for the Power Computing system. You get a SCSI CD-ROM that could be used with any other computer with a SCSI interface. The CD access on the A1200 side is infinitely faster, and on top of all that you have got a SCSI-II interface.

When you say sound files, do you mean samples or complete modules? To play a module, edit your user-startup file, found in the S: drawer, and add 'Run >NIL: <NIL: OctaMEDPlayer -Path and Module Name-'. Make sure a copy of the OctaMEDPlayer is in your C drawer, or on the path list.

If you mean a sample, do exactly the same but instead of the OctaMED player you will need to use a sample player.

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. Or e-mail us at ACAS@acomp.demon.co.uk

Any questions?

AssignPrefs gives you a nice GUI front-end to add, change and remove assigns, which makes looking after your assigns a lot easier.

A500 expansion

I have an A500 and would like to know what is involved in upgrading to OS 2.04 or 3.1. I know you can buy ROM kits and that they come with fitting instructions, but are they easy to understand by a complete novice like me? Do they need special tools, and do they come with the Workbench disks as well? Is it also possible to use the 3.1 ROMs in conjunction with a ROM switcher?

At some point in the future I would also like to fit a hard drive, but there seem to be so many different sorts I don't really know which one would be best.

Rose Hasted, Oxon

With regards to upgrading your A500's Kickstart chip, I would suggest you went for the OS 3.1 kit. How difficult this is depends on what revision your A500 is. Basically, if your Amiga is no more than six-years old it should be a revision six machine. The only way to find out for sure is to open your machine up, remove the metal shield by carefully bending all the tabs up, and somewhere on the mother board, normally on the right-hand side, there will the revision number.

If it is an earlier version than six you are going to have to do a bit of amateur electronics, and depending on how adventurous you are it may be best to get a qualified electrician to do the job. If, however, you have a revision six machine, fitting the ROM is a case of carefully prising the old ROM out of its base – a flat head screwdriver pushed carefully between the chip and the base at each end should do the trick – and then replacing it with the new ROM, making sure you place it the correct way around. There are clear markings on the chip and its base, so this is obvious.

It is possible to use a ROM switcher, but why do want to? I am sure once you use 3.1 you will wonder how you ever managed using 1.3. When OS 2 first appeared there was a legitimate use for ROM switches, but nowadays every program will run under OS 3.

As for fitting a hard drive in the future, five years ago you could not move for Amiga 500 hard drive adverts, but now A500 stuff is getting pretty thin on the ground. The easiest way to add a hard drive to an A500 is to choose any of the ones that fits into the side expansion slot. You should also consider getting some extra memory, as each hard drive partition uses up some memory and you will be stretching 1Mb to the limit. You can normally fit extra memory into the hard drive, but it is something worth checking before you buy one.

A1200 ethernet

Is there an ethernet adapter available for the A1200 which plugs into the PCMCIA slot or the parallel port? I know these are available for the PC, but I have not seen any advertised for the Amiga. I hope to buy an A1200 when I go to university and would like to connect to the campus network, if I can.

Philip Chung, Cambridge

You will be glad to hear that there is such a card available called the i-Card. This is only half the story, as you have to find out what type of network the university uses so you can purchase the correct network and driver software. Unfortunately, the card is expensive at £249. If you give White Knight Technology a call on 01920 822321, I am sure they can help.

There is another option, but this involves more work. You could get hold of a PC PCMCIA ethernet card, which is much cheaper, but you then need the driver software and a copy of AmiTCP. The problem here is the driver software for the card. Apparently, Erik Quackenbush has written a driver, but I have been unable to get hold of him – I'll keep you informed.

Workbench blues

I have an Amiga 500 and a ROM switcher fitted with Kickstart 1.3 and 2.05. I have just increased my hard drive from 40 to 350Mb and have a Megachip installed. My problem is that on the initial start up I am getting the message 'pure bit not set'. What is this pure bit and how do I set it?

If I switch to 2.05 and boot my system, everything becomes very slow and jerky. I am told this is because it is still booting Workbench 1.3. How can I get my system to detect which ROM I have selected, and automatically boot the correct Workbench?

Finally, when using Pen Pal I find it very useful to use the CMD function to redirect the output to my hard drive, and then print later. This always worked fine, but since changing the hard drive, every time I use it I get a blank screen and a redirecting data message. When I then quit Pen Pal I am left with just the blank screen and Workbench cannot be found.

M Dennett, Somerset

Bigger, better and faster. Every aspect of Workbench 3.1 is an improvement over the now decrepid 1.3

Normally, the pure bit error is associated with the pure protection bit of a file not being set. A quick cure for this is to simply type from a shell, 'protect C:#? +p'. This will set all the pure bits of all the programs in the c: directory. However, running the 1.3 files under Kickstart 2.05 should not make any difference to the speed of your computer. The error message you are getting, and the fact your computer is running slower, is indicative of a keyboard problem.

It could be that when fitting the Megachip you dislodged the keyboard connector. Does your caps lock light flash when you boot your computer? If it does then this definitely means you have a keyboard problem. All I can suggest is that you check the keyboard is correctly connected and make sure none of your keys are trapped by the computer casing. As for your problem with CMD, are you running Pen Pal under 1.3 or 2.05, and which OS version of CMD are you running? Earlier versions of Pen Pal do not run under version 2, but it is possible to upgrade to either the last version of Pen Pal, or the much more recent Final Writer.

I do wonder why you are still using 1.3. If it's just to run Pen Pal then you really should upgrade and dump all the 1.3 stuff on your hard drive. If you have to run 1.3 then there are a number of small CLI utilities that can detect which ROM you have running, and then execute the correct startup-sequence.

ACTIVE SOFTWARE

Dept AC91, P.O. Box 151, Darlington, County Durham, DL3 8YT

01325 352260

sales@active2.demon.co.uk

HOW TO ORDER

Public Domain Prices

Each Public Domain Disk 99p

Postage On All Orders 75p

Residents outside UK but in E.U. add 10% to TOTAL

Residents in Rest of World add 15% to TOTAL

Catalogue Disk 50p

Contains full listing, F1 Licenceware, CD's etc

Key

[WB2+] Workbench 2+ Only
[WB3+] Workbench 3+ Only
[2D] Number of Disks
[1MB] Minimum Memory
[AGA] For AGA Machines
[030] Minimum Processor
[HD] Hard Drive Needed

BUY 10 PD DISKS GET 1 FREE!!

Make all Cheques and Postal Orders Payable to

ACTIVE SOFTWARE

NEW TITLES

LATEST UTILITIES

U631 TRANSITION v1 powerful graphics conversion package which will even allow batch conversions! [WB2+]

U634 FRODO v1.5 The very best C64 emulator for the Amiga. Relive the old games with this. [WB2+] [2DD+]

U635 DOPUS UTILS 2 Loads of utils for Directory Opus 4/5. More scripts, Arexx routines etc etc! [WB2+] [Dopus]

U636 TYPING DEMON Learn how to type very quickly !

U638 ESSENTIAL AMINET 7 Aminet utilities. [WB2+]

U645 FINAL WRITER v3 PCH REV 7 For 030+ processors - speed increase Final Writer version 3.

U647 LOTTO LUNACY Lottery program. [WB2+]

U648 HD GAMES INSTALLER 4 loads more installers for your favourite games. Obsessesion Pinball, Powerdrive etc [WB2+]

U649 enLOCK Lock program for a hard drive [WB2+]

U650 BOOKIE BEATER Beat the bookie at his own game! [WB2+]

U651 VIRUS CHECKER v6.55 famous virus killer. [WB2+]

U652 ZXAM SPECCY EMULATOR v2 NEW Spectrum Emulator. You need an **AGA Amiga or 020+ processor**.

U653 SKIDMARKS 2 CARS 4 cars for the **AGA** Skidmarks [2 D]

U655 AUTOSTEREOGRAM v4B New version of the popular stereogram maker. [WB2+]

U656 SUPER DMS v2 A powerful interface for DMS. [WB2+]

U658 DOPUS v5>>>>v5.11 UPGRADE Upgrade your **original** DOpus to v5.11.

U661 PAGESTREAM v3G>>>>3F [2D]

U662 MUI v3B Beta version of MUI version 3. [WB2+] [HD]

U663 TURBOSUITE v3.3 Turbo Cat and Turbo View v3.1. Easily catalogue your disks into lists for viewing. [WB2+]

U664 BASIC ELECTRONICS v1.1 want to learn the basics of electronics? Here is a disk to show you how. [Not AGA]

U665 REMDATE v2 a program to remind you of dates [WB2+]

U666 IMAGE DESK v1.60 Image Desk is the best picture thumbnail program on the PD market. [WB2+]

U667 IMAGE ENGINEER v2 a PD image program [WB2+]

U668 VIRUS WORKSHOP v5.3 virus killer [WB2+]

U669 VIRUS CHECKER v6.57 another virus killer [WB2+]

U670 TERM v4.4 00 Term is the most comprehensive communications package in PD, rivals any commercial release. [3D]

U671 TERM v4.4 030 version for 030 processors [3D]

LATEST GAMES

GM194 BATTLE DUEL AGA battle duel is a SUPERB multi-player artillery type game. [AGA]

GM195 BATTLE DUEL ECS ECS version of the above [WB2+]

GM226 GLOOM A demo version of the forthcoming Doom clone. [AGA]

GM227 WAR OF THE WORLDS 4 A virtual reality program! [AGA]

GM228 KING HIGH A new card game

GM230 DOMINOES A game of dedication and a little cunning.

GM233 SUPREME FIGHTER Beat-em-up with Spectrum style GFX.

GM234 TOMMY TANKERS 2 Player overhead tank warfare game.

GM239 ULTIMATE STAR TREK Quite old but a great strategy game by Tobias Richter. [2 Disks]

GM242 PSYCHUEL Alien Breed style shoot em up [WB2+]

GM243 LAST LAP v1 Excellent racing game for one or two players.

GM245 THE PYRAMID GAME A puzzle platform game. [2 Disks]

GM247 KLONDIKE III This is a special version of Klondike for disk users only! [6 Disks] [3MB]

GM248 DELUXE PACMAN AGA Wow a pacman game by the author of Deluxe Galaga.

GM249 DELUXE PACMAN ECS

GM255 BATTLE TRUCKS

GM258 BATTLESHIPS A very playable game by the Assassins.

GM259 EGG SCRAMBLE Mad, mad game. Very colourful platformer.

GM260 GEMZ

GM263 CODENAME NANO superb thrust game. Get it!

GM264 SCORTCHED TANKS v1.85

GM265 DATASTORM [2 Disks]

GM266 BLITZ BOMBERS

GM267 NIMBLE!

GM268 EXCELLENT CARD GAMES III A set of different card games on here. [AGA]

GM269 MASTER BLASTER II decent bomb game

GM270 TRONICS tron/light phasers game. Addictive

GM271 SUPER COMBAT 3 this is a two player version of cannon fodder. Superb graphics - Object to kill other player. [3 D]

GM272 DR. STRANGE 2 top notch platform romp which is a sequel to Dr. Strange 1.

GM273 REBELLION an asteroids clone with a difference

GM274 R3 is a 1/2 player smooth scrolling thrust game

GM275 MARATHON

GM276 THE DEVILS ABODE written by the author of War of the Worlds. This is a 3D horror adventure. Decent.

GM277 DOOMER 2 version 2 of the Doom clone. More graphics, finer detail (walls etc) and much faster scrolling.

HOT NEW DEMOS

D203 MYSTIC "IMPOSSIBLE IMPOSSIBILITY" Winner of the Primavera party 95. Get this! [2 Disks] [4MB+][AGA]

D204 TRSI "ANHALONIUM LENINI Quite a decent demo from TRSI, this time! [AGA]

D213 PARALLEX/CCN "DEEP" Winner of the Gathering 95 [AGA] [2 Disks] [HD] [4MB+][AGA]

D214 AVALON "RESPONSE"

D216 FACULTY "MAN ON MOON" Very good demo from Faculty - needs loads of Mem! [4 Disks] [HD] [6MB+][AGA]

D217 ABYSS "DRUGSTORE" [2 Disks]

D218 OXYRON "TEMPLE OF DECEASE"

D219 SANITY "ROOTS II" [020+]

D220 FREEZERS "DREAM WALKER" [2 Disks]

D221 FREEZERS "LECH" AGA won the Ram Jam charts "best demo in 1995". Loads of the same routines - tunnels etc.

D222 ARTWORK "GREENDAY" Won a recent party in Germany - very decent all round. [AGA] [HD] [3 Disks]

D223 IMPACT DK "MELCHOIR" [HD] [6MB+]

D225 GIGATRON "BOSNISK METALL" [AGA]

D226 SUPREME "CHAOS" [HD]

Latest demos continued.....

D227 SCOOPEX "ALIEN" Scoopex are BACK in the '90s with a good demo release! [AGA]

D228 STELLAR "HUMAN" Stellar release "Human excrement in ....", lets say no more!.

D229 VIVIAT "SLOVIAK" [2 Disks]

D230 MELON "PLANET M" another classic release from the guys at melon. Released at a party in the Netherlands recently.

D231 AXIS "PICTURE BOOK" must be one of the best demo releases for many months, comprehensive. [AGA] [4 Disks]

D232 GUNNERS "MD9" another recent party release

D233 AIDSYNTHETIC DESIGN "TENEBRA"

D234 INTERACTIVE "ABSTRACT" another release from the party in the Netherlands. Excellent routines. [HD] [4 MB]

MISCELLANEOUS

GRAPEVINE 21 superb disk magazine from LSD [2 Disks]

GRAPEVINE 22 call for date (September?)

DEADLOCK 9 superb disk magazine by Anathema/Narcosis

DEADLOCK 10 disk magazine - call for date (September?)

NFA WORD 5 disk magazine from NFA [AGA]

NFA WORD 6 disk magazine from NFA [AGA]

NFA WORD 7 call for release date and details (August)

NFA BODYSHOP 8 [AGA] [3 Disks]

SHERILYN FENN SLIDESHOW [AGA]

PHEOBE CATES SLIDESHOW [AGA]

ERIKA ELENAIK SLIDESHOW [AGA]

NIKI TAYLOR SLIDESHOW [2 D] [AGA]

TINY TOONS CLIPART superb hand drawn clipart

NFA BIG GIRLS II [AGA] [3 Disks]

X-FILES GUIDE guide to the TV Show

GCSE MATHS EXAM PAPERS GCSE help

TRAVEL GUIDE guide for avid world travellers [2 Disks]

UFO : FINDING THE TRUTH [2 Disks]

UFO : FINDING THE TRUTH 3 paranormal and UFO stuff

ALIENS CONFIDENTIAL 2 UFO and paranormal guide

ALIENS MULTIMEDIA UFO mega-guide! [AGA][9 D]

WEATHER GUIDE [3 Disks]

LUCIFERS "UNHOLY INNOCENCE" [2 D]

LUCIFERS "WICKED GRIMOIRE" bizarre cult stuff

LUCIFERS "BOOK OF SHADES" [2 D]

STAR TREK GUIDE learn about Star Trek [6 Disks]

MISC23 NFA "DA KILLERS" info about muders [18+]

ED060 KIDS DISK 7 another under 5's program

MAIN LIBRARY

MORE UTILITIES

U076 WB3 HD INSTALL DISK Prep, format and install WB to your Hard Drive. [WB3]

U230 TOOLS DAEMON V2.1 Adds tools to your WB Menu. [WB2+]

U239 RE-ORG v3.11 Re-organise your disks/hard disk. [WB2+]

U302 VIEWTEK v2.01 Viewtek can show many picture formats including JPEG and the AGA screen modes. [WB2+]

U317 ACTION REPLAY PRO Action Replay for the A1200 [AGA]

U318 VIDEOTRACKER DATA Loads of data files for use within Videotracker. [4 D]

U349 LIBRARIES + DATATYPES Do you ever need a library? Here's a collection!

U352 MAGIC WB v1.2P The lastest version of the 8-colour icon replacer. Use this with our Extras disks for superb results! [WB2+]

U359 TELETEXT v1.20 Create a teletext receiver [WB2+]

U376 POWERCACHE v37.115 Speed up your Hard Drive access with this cache program. Versions for 00, 020, 030 and 040. [WB2+]

U379 DESKTOP MAGIC v2.0 This program allows you to assign sounds to Workbench functions like mouse clicking etc. [WB2+]

U408 DISK SALV v2.31 This is the best disk/file repairer in the Public Domain. Undelete/salvage files and repair disks.

U416 AMIGA DOS GUIDE v1 Learn Amiga DOS with this program.

U426 EPU STAKKER v1.70 double your hard drive space! [WB2+]

U434 EDWORD PRO v5 Edword Pro is the most comprehensive and easy to use word processor on the PD market. [WB2+]

U440 SNOOPDOS v3 Use Snoopdos to monitor program activity. An ideal tool to find out what libraries are needed [WB2+]

U453 MAIN ACTOR v1.55 An excellent module animation player. Buy it. [WB2+]

U454 VIDEOTRACKER 2 AGA The AGA demomaker.

U467 T. U.D. E. v1.0D The Ultimate Degrader and Enchancer can be used to degrade A1200/4000's to use WB1.3, remove fast mem etc.

U475 RELOKICK v1.4A FINAL Relokick is the most popular degrader around. Forget the fake v1.41, this is the real thing.

U479 MSDOS FOR AMIGADOS Allows you to use the MS DOS commands on your Amiga. Also use the MSDOS star ":" [WB2+]

U480 HD GAMES INSTALLER II Install Jungle Strike, Aladdin, Mortal Kombat II, Ruff 'n Tumble and about 12 more!!

U487 BIRTHDATE HISTORY v2.21 Check events that happened on your birthday!

U499 M.U.I. V2.3 Create GUInterfaces. Needed for Mosaic. [WB2+]

U502 GBLANKER V3.6 020 An optimised version for 020/30/40/60 CPU's. [WB3+]

U510 FINAL FAX/SUPER DUPER v3.13 Final Fax allows you to control GPFax from Final Writer, sending a fax from a normal document.

U512 ADDRESS PRINT v4 Store addresses and print them to labels.

U514 DISK STICK v1.1 A disk labelling program.

U517 FINAL WRITER 030 PATCH Excellent! A patch which turns the release 3 Final Writer into an optimised 030 version. Get this!!

U523 DOPUS MAGIC COMPANIAN Loads of buttons, AREXX scripts for Dopus. [WB2+]

U532 ALL NEW FINAL WRAPPER v3 Final Wrapper was the utility that hit Final Writer users last year. This is the very latest version.

U533 CAR DATA ANALYST Monitor and test your car's performance. First for the Amiga.

U543 TOOLS MANAGER Allows you to have a "dock" of icons on Wbench. [2 Disks][WB2+]

U550 VMM v3 Virtual memory program. [WB2+] [NEEDS MMU] [020+]

U553 GFX CONVERTOR v1.7 Decent graphics convertor. Loads about 10 different file formats and saves GIF, ILBM, PCX, POSTSCRIPT, JPEG. [WB2+]

U554 SOUND BOX v1.97 Coverts sound samples from IFF, RAW, WAV, MAESTRO, VOC, AIFF and MAUD to any of the supported formats. Ie, load in as IFF save as WAV or load as WAV andsave as IFF. [WB2+]

U560 DELITRACKER II v2.1 A great module player. [WB2+] [2 D]

More utilities continued.....

U564 EXOTIC RIPPER v3.1 module and sample ripper. [WB2+]

U565 IMAGE STUDIO v2 All new version 2. Loads of new features present in this: Arexx capabilities, speed increase etc. [WB2+] [2 Disks]

U568 LOTTERY WINNER V2.0 good lottery predictor. [WB2+]

U576 BLITZ BLANKER V2.5 Blitz Blanker is another tool that requires the services of MUI (U499). Modularised screen blanker. [WB2+]

U581 PAGESTREAM 3F>G PTCH This patch vastly improves Pagestream 3F. If gives you landscape non-postscript printing! [2 D]

U588 PC-TASK V3.10 All new PC Task v3. Demo version.

U589 MP LOTTERY V2 Another good lottery program.

U592 VARK CLI UTILS 7 All the latest CLI utilities here!

U594 AMIGA FAX V1.42 Send/receive faxes on your Amiga. [WB2+]

U595 EASY LIFE V1.10 A set of AMOS extensions [3 DISKS]

U601 SPONDULIX MARK 5 An excellent finance program. [WB2+]

U602 MAGIC EYE KIT This kit allows you to produce your own Magic Eye stereograms. [3 DISKS]

U606 ESSENTIAL AMINET 5 recent Aminet uploads. [WB2+]

U607 ESSENTIAL AMINET 4 more recent Aminet uploads. [WB2+]

U617 HD GAMES INSTALL 3 Over 20 games such as Super Skidmarks, Sensible World of Soccer to be installed. [WB2+]

U618 TEXTURE STUDIO v1.02 For Imagine users - adapt those textures. [WB2+]

U619 BALLS! Superb and powerful Lottery program. [AGA]

U623 AMIGA CD-ROM GUIDE Guide to loads of Amiga CDs - Amigaguide doc. [WB2+]

U626 VIRUS WORKSHOP v5.1 powerful virus checker. [WB2+]

U628 ICONIAN v2.91 Superb AGA icon editor. [AGA]

U629 DIY REKO v2 Design and construct Klondike cards. [WB2+] [IMAGE FX 2]

MORE GAMES

GM58 BLACK DAWN II a popular 3D adventure

GM67 SCRABBLE the classic board game

GM78 STARWOIDS thrust and oids mixed [1MB] [2 DISKS]

GM97 TOP HAT WILLY an Amiga "Jet Set Willy" rip-off. Addictive!

GM105 DYNAMITE WARRIORS 2

GM118 CHANEQUES yes, two please!! A Lemmings type game. Direct your little man (with different skills) to the end. [2 Disks]

GM123 MEGABLOCK V2 the best Tetris games on the Amiga.

GM125 KELLOGS LAND WOW! The very best PD platform game ever! [AGA]

GM126 SUPER MEGA FRUITS a good Fruit Machine game.

GM127 ZAXXON superb! The C64 classic now comes to the Amiga!

GM130 FISHY FISHY eat the small fish, avoid the sharks and grow!

GM132 SAMURAI SHOWDOWN this is an amusing Street Fighter clone. Good! [AGA]

GM133 HYPER RACE super-sprint clone. Multi-player racing. [2 D]

GM136 CYBERMAN wow! A 3D pacman clone. Very decent indeed.

GM138 INTERNAL COMBUSTION great skidmarks-esque multi-player racing game

GM141 MADHOUSE a graphical adventure game [2 DISKS]

GM147 DELUXE GALAGA v2.51 must be the best PD shoot-em-up ever made!

GM148 CLASSIC PUCMAN classic Pacman as it was originally designed

GM149 AMIGA DEMON v1 poker card game for the Amiga

More games continued.....

GM150 ROCKETZ V2.25 superb AGA only 2-player thrust/shoot-em up game. One of the most addictive multi-player games ever! [AGA]

GM151 INFECTION very hard to explain. 4-player game with playab

GM152 JUMP 'UM guide Spud through the levels to reach his chea

GM153 BOING V3 decent thing-on-a-spring type platform game

GM157 MASTER BLASTER similar to Dyna-warriors - 2 player bomb game

GM158 THINK A MANIA snap game with excellent graphics [WB

GM161 OOZE AGA ooze is so addictive. 2 player infection game! 2

GM162 OOZE ECS ECS version

GM164 CYBERGAMES excellent! A street-fighter clone with guns! This is probably the best beat-em-up games in the Public Domain. [2D]

GM165 PUNTER v1.0 Animated horse racing betting game.

GM166 GRAVITY FORCE 2 Compulsive 2 player split screen blaster. Great!

GM167 ACE THE SPACE CASE Top notch platform romp, commercial standard.

GM168 SCAVENGE 2 player screen blaster within a maze. [WB3+]

GM169 MASH Similar to Team 17s new Wormz game. A subtle cross between Lemmings and Cartoon Fodder.

GM173 POWER WALLS a decent bat 'n ball game

GM174 TANKS! excellent tank-war sim

GM176 ALIEN GENOCIDE err. A Operation Wolf clone? [2 Disks]

GM178 DOOMER a good Doom clone for the Amiga [AGA] [HD]

GM179 SLIDER AGA little puzzle game for AGA only

GM180 CARNAGE blood, guts and gore and more!

GM183 PSSST AGA remember Pssst on the Speccy? Well this is the Amiga version!

GM184 SCREECH another car racing game

GM185 BOARD GAMES Cluedo is the main game here

GM187 FEARS 2 AGA wow! Much better. This is a demo of the finished commercial version! More aliens.

GM188 CARD GAMES DELUXE A program that allows you load and use your Klondike cards! Blackjack and another on here [3 Disks] [2M

GM191 CHILD MURDERER AGA not as bad as it sounds! A graphical adventure to solve the mystery to clear your name [4 Disks]

GM192 CHILD MURDERER ECS [3 Disks]

GM193 SPRINGTIME

MAGIC WB EXTRAS

These contain icons, backdrops, drawers, tools manager brushes and docks and much much more!

Magic WB Extras volume 1	**[2 Disks]**
Magic WB Extras volume 2	**[2 Disks]**
Magic WB Extras volume 3	**[2 Disks]**
Magic WB Extras volume 4	**[2 Disks]**
Magic WB Extras volume 5	**[2 Disks]**
Magic WB Extras volume 6	**[2 Disks]**
Magic WB Extras volume 7	**[2 Disks]**
Magic WB Extras volume 8	**[2 Disks]**
Magic WB Extras volume 9	**[2 Disks]**
Magic WB Extras volume 10	**[2 Disks]**
Magic WB Extras volume 11	**[2 Disks]**
Magic WB Extras volume 12	**[2 Disks]**

Buy all 12 volumes for £21.99 or each volume at £1.99

KLONDIKE CARDS

KL002 Anime Cards
KL003 Cindy Crawford Cards
KL006 Sandman Cards
KL007 Star Trek Cards
KL008 X-Men Cards
KL009 Fast Cars Cards
KL010 Empire Strikes Back Cards
KL011 Return of Jedi Cards
KL012 Dr.Who Cards
KL013 Marilyn Monroe Cards
KL014 Betty Page Cards
KL015 Elle McPherson Cards
KL016 Iron Maiden Cards
KL017 Pertheilon Cards
KL018 Star Wars Cards
KL019 Swimsuit Cards
KL020 Ranma Cards
KL021 Saikomoon Cards
KL022 Dungeons and Dragons Cards
KL023 Faces 2 Cards
KL024 Oriental Girls Cards 18+
KL026 Bikini Cards
KL028 Fractal Cards
KL029 Dragonlance Cards
KL030 Ripping Yarns Cards
KL031 Sherilyn Fenn Cards
KL032 Lion King Cards
KL033 Beauty Cards
KL034 Architexus Cards
KL035 Heroine Cards
KL036 Cindy Crawford 2 Cards
KL037 Photo CD Cards
KL039 Claudia Schiffer Cards
KL040 Star Trek TNG Cards
KL041 Space Cards
KL042 Pretty Women Cards
KL043 Normal Cards
KL044 Flowers Cards
KL046 Marilyn Monroe 2 Cards
KL048 Hired Guns Cards
KL049 Elle II Cards
KL050 Playboy Cards
KL051 Kylie Minogue Cards
KL052 Dragonslair Cards
KL053 Women Cards 18+
KL054 X-Dos Cards
KL055 Night Before Xmas Cards
KL056 Sherilyn Seymour Cards
KL057 NBA Cards
KL060 Mammals Cards
KL061 Everton Cards
KL062 Prehistoric Cards
KL063 Generations Cards
KL064 Madonna "Sex" Cards 18+
KL065 Erotica Cards 18+
KL066 Rufus "Hot Men" 18+
KL067 New Roses Cards
KL068 Fractasm Cards
KL069 Patricia Ford Cards
KL070 Record Covers Cards
KL071 Rein & Stimpy Cards
KL072 Dream Girls II Cards
KL073 Manga Maniacs Cards
KL074 Doom II Cards
KL075 Wallace & Gromitt Cards
KL076 Rosie & Jim Cards
KL077 Playboy II Cards
KL078 Pacific Coast Cards
KL079 Asterix Cards
KL080 Streetfighter II Cards
KL081 Fireman Sam Cards
KL082 Commodore 64 Cards
KL083 Venus Cards
KL084 Advanced D&D Cards
KL085 Kylie Minogue 2 Cards
KL086 GHawk Cards
KL087 Kathy Ireland Cards
KL088 Pamela Anderson Cards
KL089 Rosie and Jim Cards
KL090 Babylon 5 Cards
KL091 Hellraiser Cards
KL092 Beavis & Butthead Cards
KL093 Star Trek ART Cards
KL094 Sonyama Cards
KL095 Dream Girls Cards
KL096 Bikes and Cars Cards
KL097 Disney Cards
KL098 Kewl Cards
KL099 Premier League '95 Cards
KL100 Females Cards
KL101 Motorcycle Cards
KL102 Hired Girls Cards 18+
KL103 Dreams Cards
KL104 Dreams II Cards
KL105 VT Chicks Cards 18+
KL106 Erika Eleniak Cards
KL107 Wild Life Cards
KL108 Album Covers Cards
KL109 Wild Life II Cards
KL110 Landscapes Cards
KL112 Pleasure Cards 18+
KL113 Starkers Cards
KL114 Everton Winners Cards
KL115 NFA Mask Cards
KL116 Marine Fish Cards
KL117 Birds 1 Cards
KL118 Birds 2 Cards
KL119 Pinnocio Cards
KL120 True Lies Cards
KL121 Airbrush Cards
KL122 Harley Davidson Cards
KL123 Boris Hejme 2 Cards
KL124 Star Wars Galaxy Cards
KL125 Renders Cards
KL126 Busen Cards 18+
KL127 Anna Nicole Smith Cards
KL128 Pulp Fiction Cards
KL129 Body Piercing Cards 18+
KL130 Real Beauties Cards
KL131 Raytracing Cards
KL132 Flintstones the Movie Cards
KL133 Gremlins Cards
KL134 Stargate Cards
KL135 Arnie Cards
KL136 Modern Life Cards
KL137 Time Cop Cards
KL138 Speccy 1 Cards
KL139 Speccy 2 Cards
KL140 Jap Anim Cards
KL141 Toonies Cards

Approx 5 New cards per week! Call

We will swap cards - call us!

F1 LICENCEWARE

F1-14 TOTS TIME £3.99 Ideal for younger users

F1-31 POWERBASE v3.3 £3.99 database

F1-33 POWER PLANNER £3.99 personal organiser

F1-41 GRAND PRIX MANAGER £3.99 run your own grand prix racing team. 1994 season. Recommended.

F1-50 GUIDE TO AMOS v2 £4.99 absolute beginners guide to Amos. Superb guide to help you understand!

F1-56 GIDDY 2 £3.99 Sequel to Giddy.

F1-62 JUNIOR ARTIST £3.99 Learn how to draw

F1-67 BUBBLE TRUBBLE £4.99

F1-68 AQUANAUTA £3.99 superb game. Get this!

F1-74 AMIGA ASSIST £3.99 beginners guide

F1-76 OBSTICKLE £3.99 superb platform romp!

F1-81 AQUAKON AGA £5.99 A little like Doom on water.

F1-83 IMAGE COMPRESSOR £3.99 for AMOS coders

F1-84 WORD PLUS+ PRO v1.3 £4.99 Want to know a word - get this! Used to sell for £14.95!

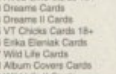
F1-86 LEGIONS OF DAWN £4.99 Sci-Fi Dungeon Master type game. Choice of several characters and loads of weapons.

F1-87 LEGIONS OF DAWN £4.99 hard drive version

F1-102 AURIGA £4.99 very decent Strider clone

BLACKBOARD 4 £8.99

Part of the new F1 GOLD range this excellent image processor now comes with an extensive fully featured ring bound manual. The new version contains an online help routine, new file formats, new edit facilities, rotate pictures to any angle in 3D, new buffer routines with upto 99 pictures in RAM, new extensive preference links, thumbnail images, mash functions and a new GUI frontend!

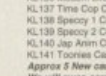


INTRO TO DOS 2 £6.99

WOW! Version 2 of the superb guide and introduction to Workbench and Amiga DOS. Version one obtained superb grades in a number of magazines - eg 90% in AUI and 92% in Amiga Shopper. Do you want to learn how to use your Amiga? This has twice as much information as the first version, with examples pictures.

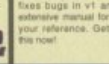
GRAC v1.10 £6.99

Do you admire the commercial game cush as Monkey Island and other adventure games and wish you could program your own version? With the Graphic Adventure Creator v1.10 you can easily make a point and click adventure game like Relics of Deldronaye. This version fixes bugs in v1 and comes with an extensive manual for your reference. Get this now!



MAGIC PAINT BOX £6.99

Magic Paint Box is a superb new program for all ages. Mainly aimed at children under 8 years of age this is suitable for parents to easily demonstrate their children its simplicity yet powerful features. Excellent front end, 84 different painting tools and the ability to print to any colour printer. Comes with full reference manual.



CD-ROM SOFTWARE

KLONDIKE GOLD

Have you entered the race to collect Klondike cards before your friends? Even the Amiga 'scene' has gone Klondike mad! This CD should contain over 200 cards (our aim is for over 250 with many exclusive cards constructed by scene members) all ready-to-run and in LHA format (for BBS and HD use). All categorised into sections all your favourites are here and many more. Also includes Klondike III, Card Games Deluxe, Cardz and tools such as DIY Reko, REKO GIO for Photogenics, REKO datatype etc. This CD is ideal for a collector, someone interested in buying Klondike or any card fan. Superb!

DUE OUT EARLY SEPTEMBER £19.99

F1 LICENCEWARE

volume one - F1-01 to F1-100

This CD contains the complete collection of F1 Licenceware titles from F1-001 to F1-100. Over 100 titles or more than 200 disks! This CD is worth well over £500, if the disks were bought separately. There is something for everyone on the CD - games, utilities, tools, professional clipart and music, beginners guides, educational programs and much more. Choose from the award winning Blackboard v3 to Junior Artist or from Tots Time to GRAC (the best ever selling F1 title with 100's of copies sold so far). You can blast some aliens with Aquanaut, learn about AMOS through theGuide to Amos, teach your kids how to draw with Junior Artist, make a adventure game with GRAC or use some of the professional music for your games. With a very easy to use interface with 99% of the programs running straight from the CD.

All programmers receive a royalty share for every CD sold.

£32.99

DUE OUT LATE SEPTEMBER

F1 LICENCEWARE

PHANTASMAGORIA

professional backgrounds and textures

Phantasmagoria are a professional graphics firm based in Bristol. They have provided textures and backgrounds for video, ray-tracing and image work for the last five years. Their entire collection, consisting of 520+ 24Bit backgrounds and textures, is present on this CD-ROM. There are the very high quality 24Bit JPEG files for video, graphics and multimedia work and 256 colour GIFS for Scala and raytracing. No wasted space on this CD-ROM! For instance, no multi-graphics files such as SCI, PCX or even more obscure formats that are found on other texture CD's. You will not find many tools on this CD either. Picture viewers are provided for Amiga, PC and Mac computers.

INCLUDES FULL COLOUR REFERENCES FOR EVERY IMAGE

new release - call for date! £29.99

HOW TO ORDER INFORMATION

Choose the CDs you want to order, add 75p to the complete cost to cover postage and packing. Then send your cheque or postal order to the address in the other page. You can also pay by credit/debit card.

As you can see from the advert we are working with F1 Licenceware to produce their CD-Rom. We also have a range of other co-operation CDs in the pipeline. If you have an idea for a CD then contact us as soon as possible.

MULTIMEDIA TOOLKIT II

1000's of clipart, fonts, samples, modules and midi files. Many, many tools and utilities to improve your multimedia presentations. All the items run straight from the CD. Octamed 5.04, the full version, is included (with Aura support), support files from many Octamed experts. Over 50MBs of Midicraft midi files, samples and modules (Midicraft are professional musicians working with the Amiga to create their music). 200 MBs of Imagine and Lightwave objects. If you are a Multimedia fan then you should not miss release volume 2.

£22.99

AGA EXPERIENCE vol. 1

NFA, famous for their Bodyshop series and Word disk magazine, present their first CD for the Amiga. This contains AGA PD from the last 3 years of which 90% will run straight from the CD! Contains the best WB3+ utilities and creative software, the greatest AGA games, high quality AGA slideshows, the most outstanding AGA demos, entertaining and informative disk magazines and the best of the rest. NFA have also compiled loads of exclusive wares for the CD: slideshows, Klondike cards and more. All this and contained in superb Magic Workbench icons makes the CD an absolute pleasure to use!

DUE OUT SEPTEMBER 1ST £19.99

ASSASSINS 2

In the follow up to Assassins Games vol.1, this CD contains 600 new games for all Amiga CD users. It contains a excellent interface which means that 99% of the games run straight from the CD, even on a CD32. If you want the best and the latest games then look no further!

£18.99

AMOS vol.2

This is an update to the first AMOS CD - the official library disks upto 638, general Amos PD over 200 disks. Also includes, ready to run, 1800 source files, 100 sprite banks, 260 Clext banks, 800 samples, music banks, several Amos and Amos Pro extensions. An absolute essential CD for any Amos programmer.

£18.99

FRESH FONTS

Volume 1 contains 628 MBs of fonts, Deco (71 fonts), Non-Latin (31), Pictures (17), Serif (33), Sans Serif (31), Script (27). Volume 2 contains 632 MBs of fonts. Deco (63 fonts), Sans Serif (29), Script (36), Thienen (19) and more!

VOLUME 1 £14.99 | VOLUME 2 £16.99

LIGHT ROM

Vol 1 contains 3D objects, many example images, image sequences, scene files, surface attributes, bump maps and textures. Light Rom volume 2 contains 100% Lightwave/Toaster material with over 300MB of data that didn't appear on vol.1.

VOLUME 1 £29.99 | VOLUME 2 £34.99

ZOOM

Released on the 29th of June, Zoom received some glowing reports: T. Cooper said that "It is the best interface I've used", whilst D.S. Duncan wrote to say "My most eagerly waited CD....get on with Zoom 2 NOW!!". Zoom contains the latest PD from all over the country, the Aminet and BBS sources within the Active Software library. The interface is a custom-written, GUI based design, coded by the author of the famous disk magazine Deadlock. Select the file you want to read about, read the information then click to de-compress! With an online help guide if you get stuck! Easy as that. Over 560MB of data, (over 1.5 GIGs of uncompressed files) offering the user access to 1000+ of disks! Must be one of the most comprehensive CD's this year! OUT NOW!

NOW INCLUDES SEARCH ROUTINE £19.99

CD-Rom Comparison Chart

	Zoom	Hottest 5	Phase 4
Over 560MB of Data	✓		
Easy to Use GUI	✓		✓
Over 1000 Disks	✓		
Very Latest PD	✓		
Outstanding Value	✓		✓
Free Booklet		✓	
AS Best Buy Award	✓		

* The latest PD from December to June: Utilities, games, demos, slideshows, education, disk mags and more! Disks up to U645, MISC22, D225, A138, KL88, ED059, GM256
* Over 80 Klondike/Card Games Deluxe Cardsets
* Ground Zero's Themed Imagine Objects
* Gathering '95 Demos/GFX/Mods, Other "Party" Demos
* Some Exclusive and New AGA Slideshows
* Over 21MB+ of Magic WB icons, backdrops, drawers etc

FRED FISH

Fred Fish has been serving the Amiga market since inception with his excellent disk compilations. The Fresh Fish (double CD) CDs continue the trend. The Gold Fish CDs are compilation of the best from the Fresh Fish CDs. The best on the market!

ALL CDs £24.99

SUBSCRIPTION SERVICE
Every time an Fred Fish CD is released (usually 4/6 months) we will send it to you for £21.99 - pay by credit or debit card. Card debited on despatch.

SUBSCRIPTION SERVICE
Subscribe to Gold Fish 3 for £23.99 (Xmas 95 release?) - pay by credit or debit card. Card debited on despatch.

THE AMINET COLLECTION

Aminet 5	March 95	£11.99
Aminet 6	June 95	£11.99
Aminet 7	August 95	£13.99
Aminet 8	October 95	[Pre-Order] £13.99
Aminet 9	December 95	[Pre-Order] £13.99

SUBSCRIPTION SERVICE
Every time an Aminet CD is released (usually bi-monthly) we will send it to you for £11.99 - pay by credit or debit card. Card debited on despatch.

Aminet Set £23.99

SUBSCRIPTION SERVICE
Subscribe to Aminet SET vol 2 for £24.99 and we will send you it on release (Xmas 95?) - pay by credit or debit card. Card debited on despatch.

MEGA BUNDLE ONE

LIGHT WORKS | PRO FONTS/CLIP | BEAUTY CHAOS

This Mega Bundle contains Light Works - a superb raytracing/3D CD by Tobias Richter, The Professional Fonts and Clipart CD from PD Soft and the Beauty of Chaos which contains loads of fractals.

GET 3 CDs for £34.99

MEGA BUNDLE TWO

LSD VOL 2 | MEETING PEARLS 2 | PHASE 4

The 2nd Mega Bundle contains the LSD II CD - LSD were "famous" for Grapevine, Meeting Pearls II and the classic 17Bit Phase 4. Four Aminet-thrashers for one price!

GET 3 CDs for £24.99

MEGA BUNDLE 3

ASSASSINS 1 | GAMERS DELIGHT | POWER GAMES

Mega Bundle 3 contains the Assassins Games CD vol 1, Gamers Delight - full of commercial games - and to complete this games compendium Power Games has been included!

GET 3 CDs for £29.99

HOTTEST 4

This is a PD Soft collection of their PD library during 1994. Games, demos, utilities, animations, slideshows, diskmags, pictures, samples, music modules and much more. Limited stocks left so get this CD at this low price while you still can.

£14.99

SPECCY SENSATIONS 2

A multi-platform CD with emulators for Amiga, Atari ST, Mac and PC. Loads of FAQs (Speccy related), technical FAQ, games lists, modified ROM, wallpaper (.BMP) pictures for Windows and ZIP for Amiga. Over 100 different Speccy computer screens and loads of tape covers. Not only does the CD contain all this exclusive data, it is also packed with over 150MB's of Spectrum games for a myriad of computers. Mainly .SNA but also a selection of .Z80 files. From Attic Attac to Exolon or Jet Set Willy to Arkada. Superb!

£18.99

THE COLOUR LIBRARY

From a graphics company in Basildon, this compact disc contains all things colour. Essentially 1700 colour files with categories such as Animals, Bikes, Boats, Buildings, Cars, Cartoons, Cats, Computers, Dinosaurs, Dogs, Fantasy, Fish, Flags, Flowers, Food, Helicopters, Houses, Insects, Maps, Medical, Military, Misc, Money, Photo, Places, Planes, Raytrace, Scenic, Sci-Fi, Sea, Space, Sport, Star Trek, Swimsuit, Trains, Wars and Women. 100% Colour!

£18.99

HOT AMIGA DEMOS

Do you want 1072 megabytes of the very hottest Amiga demos and megademos? This CD offers you hundreds of the finest demos. Spacedabs, Kefrens, TRSI, Complex, Scoopex, Sanity and Virtual Dreams are a selection of the bigger names here. 2000 floppy disks in DMS format with menu system to download LHA and DMS files the CD also contains loads of the latest music modules from around the world. Plenty on here to keep any user or even a demo freak going for ages!

£18.99

3D ARENA

A superb 3D CD that contains many objects for Imagine, Lightwave and Real 3D for the Amiga and PC computers. One exclusive aspect for this CD is the 24Bit Club's objects/images for Lightwave. You'll only find them on here! Also attribute files, tutorials, utilities.

£19.99

LIGHT WORKS

A superb compilation brought to you by Tobias Richter, reknown for his amazing spaceships of famous science fiction films. The objects are complex, highly detailed and seem very real due to the superb surface texture techniques used. Ideal for both experts and beginners.

£29.99

PRO CLIPART 2

This is a multi-format CD that contains data in IFF and PCX format for Amiga and PC users. Includes categories such as animals, boys, cultural, floral and natural, girls, holiday, literal, mythological, scenery, transportation and work images. For Amiga/PC computers.

£17.99

GFX SENSATIONS

A collection of the best graphics tools, 24Bit images, animations and a huge collection for Imagine and Lightwave users: Anatomy, animals, aviation, bathroom, botany, buildings, clocks, computers, food, kitchens, lamps, ships, space, sports and much more!

£16.99

CD BOOT v1

This allows you to use any CD32 game on your A1200 or A4000. You can create a config file for every gameComes with a complete English based manual and can run around 98% of CD32 games.

£26.99

SOUNDS TERRIFIC

This CD contains over 1.2 Gigs of sound and music data. It will form part of any professional musicians library or amateurs collection. 4,600 modules, 14,000 samples, 566 Sonix scores, 4500 instruments, 302 octamed modules and more!

£17.99

C64 SENSATIONS

CALL FOR DATE

This CD gives you almost 10000 C64 megademos and over 800MB of software. Mega demos, games, utilities for the Amiga and PC computers. Latest versions of emulators for both machines (the commercial version of A64 v3 for the Amiga). C64 experts have compiled a best of a CD.

£18.99

AMIGA DTV

Many original textures start this CD-ROM. Backgrounds in JPEG format, over 200 colour anti-aliased fonts, 3D object data for Lightwave, Imagine and Sculpt. It also contains many up-to-date utilities such as Main Actor, Ham Lab, Fractint, Anim players and more.

£13.99

UTILITIES 1-1500

The utilities 1-1500 CD contains the very best utilities and tools from PD Soft's library (mainly during 1994).

Education, business, sound utilities, hobbies, emulators, programming, printer tools, virus killers and much more!

£16.99

GIGA GRAPHICS

Giga Graphics is the ULTIMATE collection of graphics for the AGA Amiga. Over 10,000 images on this quad-pack CD. All images are in 24 Bit and HAM 8. Superb price for 4 CD's! Suitable for all AGA Amiga owners.

£34.99

SOUND WORKSHOP

Over 1 Gigabytes of data on this double CD. Includes MIDI files in over 20 formats (MDI, MIM), hundreds of MB's of music to listen to or change/edit for your own applications. Over 5000 modules, 1000 VOC files, 1000 WAV files, 1000 samples.

£17.99

HOTTEST 5

Hottest 5 contains some of the very best games, demos, utilities, animations, slideshows and more from October to early February this year. This CD also comes with a 50-page book and white booklet and BBS support on the compact disc itself.

£15.99

TEN ON TEN PACK

An Almathera collection, reviewed in this months magazine consisting of ten CDs. They are: Team Yankee, Pandora's CD, World Vista Atlas, Illustrated Shakespeare, CDPD1, CDPD2, Demo 1, Comms and Networking, Fonts & Clipart and Photo Library CD

£35.99

INTERNET INFO

17,420 text documents straight from the Internet. FAQs on every subject imaginable, discussions from Usenet, Internet guides and more. An ideal way for the novice user to understand the Net!

£16.99

ILLUSIONS IN 3D

Here is a CD with loads of 3D hidden pictures, the utilities you need to create your own images and also the objects needed to create the 3D 'hidden' effect! Programs such as Stereogram to produce the image as well as hundreds of source files in a myriad of gfx formats.

£18.99

ADULT SENSATIONS

This CD is for adults only. It contains soft porn material no worse than the Sun newspaper. If this material offends you in any way please refrain from purchasing the CD. Proof of age (18+ only) needed when buying this CD. No proof = no CD.

We do not condone or supply hard core material

£5.99

MEETING PEARLS 2

Carrying on the excellent tradition this entire CD is run from HMTL "internet" style pages. More utilities, games, tools, music and Midi, FAQ's, PasTEX files and MB's of other data. This CD is similar to the Aminet series except it could be classed as more technical.

£17.99

WS ANIMATIONS

A double CD animation extravaganza!

All the animations are ready to run from the CD, through an Amiga Guide file system. Some stunningly large animations, some over 5MB in size. Suitable for both the Amiga and PC.

£8.99

UPD GOLD

Contains over 4800 disks from the UPD library. Games, utilities, demos, slideshows, diskmags, animations, clipart, modules, samples and much more. Most of the PD was collected from 1990 to 1994 and early 1995.

£17.99

WS FONTS

Another popular Weird Science compact disc.

This CD contains 2000+ Adobe and CG fonts, some PS fonts, 500+ bitmap, 190 coloured, 240 IFF, 139 Pgs, 24 Prodraw, 500 Truetype, 132 PCX, 300 GDOS and more!

£28.99

WS CLIPART

Must be nearly third in the most popular CD ever produced.

Contains megabytes of B/W IFF bitmaps, colour IFF, procips, EPS, Pagesetter, Pgs, IMG, Corel Draw and coloured brushes for Deluxe Paint. Bargain! This CD-Rom is suitable for Amiga, PC and MAC computers.

£7.99

public sector

Your hard-up host Dave Cusick puts more low-priced lovelies under scrutiny

Having escaped some of the hottest summer weather in years by clearing off abroad for a fortnight of quality cloudbathing, I was greeted on return by a PD pile of office-swamping proportions. Fortunately, although wading through all the disks was an extremely lengthy process, the high standard of most ensured it wasn't too tedious an ordeal.

Better still, there were only three Lottery programs this month – and one of them wasn't even a predictor. Anyway, Public Sector has now received so many Lottery Predictors that next issue a brief comparative round-up could be in order – and then I'll hopefully be able to forget about them for a couple of months and concentrate on more imaginative offerings.

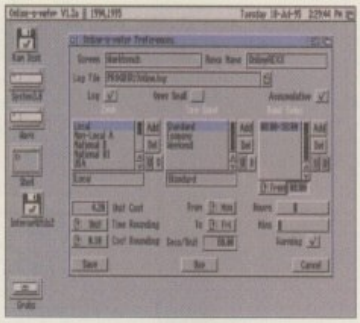
Internet Utilities

Programmed by: Various
Available from: 17 Bit Software
Disk No. 3724 (£1 plus 50p P&P)

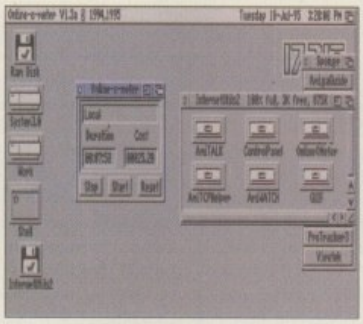
Unsurprisingly given the title, five of the six programs on this disk will only be of interest to comms' buffs. AmiTALK, for instance, is a Unix compatible talk program – which to two-thirds of the Amiga community will mean absolutely nothing but should prove useful for the rest. There's also AmiTCP Helper, written by *Amiga Computing's* very own Ben Vost, and Control Panel which offers a simple graphical interface for AmiTCP functions.

AmiWatch keeps track of when your friends or indeed enemies are logged on to the net, and when their name is listed, indicating they are on the net at that time, you can click a button to talk to them. Finally, GUIF is basically a graphical front-end to the AmiTCP Finger command.

However, while Comms' fans are the target of the sixth program too, its appeal is slightly broader. Online-o-meter tells you the cost of a phone call. It can either be used by simply clicking on the call start and end buttons, or from comms software using ARexx. It calculates the exact cost of each call, taking into account factors such as differing charge zones, minimum charges and time and cost rounding. It is supplied with British charge details for BT, Mercury, and Nynex, so getting the whole thing set up takes just a couple of minutes. Since this is also a useful program for anybody who happens to have a telephone near their Amiga, I'd recommend getting hold of this disk even if you aren't an Internet addict.



Configuring OnLine-o-Meter is a simple and swift operation...



...and then you can see exactly what each telephone call is costing you

Premier League

Programmed by: David King
Available from: F1 Licenceware
Disk No. F1-092 (£3.99)

This is a football game with a difference; it's actually a card game. After you've selected a Premiership football team to guide through a 42-game season, 18 cards are dealt out. You and the computer then take turns at selecting cards which signify match events taking place; fouls, free kicks, penalties, substitutions and goals. One of the cards also brings the half to an end.

What stops everything being totally dependent on luck is that prior to each half, the player gets a chance to sneak a peek at between one and six of the

Premier League: Premier Picks minus the buy

Magic Assistant

Programmed by: Various
Available from: KEW=II Software
Disk No. U1142

It's all very well, this computerised desktop lark, but doesn't everyone occasionally miss things like notepads, address books and so on? Not any more, because to the rescue in its very best underpants-outside-trousers superhero manner is this collection of six assorted utilities.

Let's start with the least impressive programs. TolleUhr is a resizable vector clock, with the option to twiddle the rather horrific default colours and suchlike. Slightly more useful is MegaNote, a multi-page notepad which would be a good dea

Duck Dodgers

Programmed by: David Worswick and Lee Martin
Available from: PD Libraries

It's a while since there's been a good PD platformer but it was worth the wait. Fans of tough arcade action will be at home here with plenty of taxing levels.

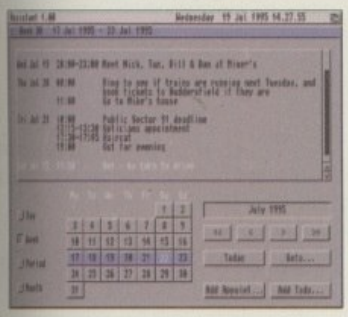
Duck has to toddle around each screen zapping beasties with his freeze gun and then pushing them into large vats before they thaw. Much be-billed bravery is in order because on some levels, new creatures are created as fast as you can trap the original ones. To top it all, each level has to be com

Take on the role of Duck Dodgers, space-age stamper-out of those guilty of fowl play

cards. This memory test aspect is what makes the game pretty enjoyable and addictive. Remembering where that Goal card was might be simple enough, but once you've snatched the lead you won't want to forget where the Full Time card was located.

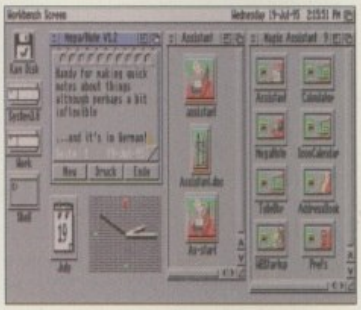
And that, in a nutshell, is Premier League. The author was apparently inspired by a PD game called Premier Picks which worked along the same lines – or rather, didn't work, having a tendency to crash on him with alarming regularity. Fortunately, far from scoring such Lee Dixon-type own goals, Premier League is a veritable Paul Ince of a game – dependable, frequently impressive and (much like Andrei Kanchelskis, if you happen to be reading, Fergie) quite hard to live without.

Manchester United back where they belong



Planning the week ahead with Assistant

easier to use were it not also still in German. Still, you can jot notes on it and print them out, and I can't imagine what other features a notepad program might need. IconCalendar basically displays the date in an AppIcon. Very nice, but I'm not quite sure what the point is – I expect most people who regularly want to check the date already have a titlebar clock which displays it. When I ran it on the 20 July I was informed that this is the author's birthday – fascinating, but why? A calculator program which runs as a commodity, ACalc is perfectly usable if a little simple.



MegaNote, Icon Calendar and TolleUhr in action

Right, that's the moaning over, because the two remaining programs are actually pretty good. AddressBook impresses because of its general simplicity, and because it is British it talks about Postcodes and not Zipcodes. It can store names, addresses and telephone numbers, and it can search for a record by name or address and then dial the appropriate phone number.

Finally, the most impressive program on the disk is Assistant, a computerised diary with the added advantage of being able to provide daily, weekly or monthly pages. Again there are no fancy features, but the emphasis is on functionality and as a consequence, Assistant is very pleasant to use. Coupled with Address Book, it should render the conventional office rather redundant.

Duck Dodgers: A multi-level platform extravaganza, or something

pleted within a strict time limit.

The presentation is excellent throughout, the visuals are attractive, and the sound isn't bad either. Occasionally, harsh collision detection aside, the gameplay is slick and addictive.

Duck Dodgers is quite an achievement, especially considering the fact that its programmer lives at one end of the country and its graphic artist at the other. Although the two have apparently never met, for over a year or so they have been sending one another stuff in the post and the end result is this rather playable platformer. Be warned, it's not easy. However, for gamers after an enjoyable challenge, I'd heartily recommend Duck Dodgers.

Lottery Player

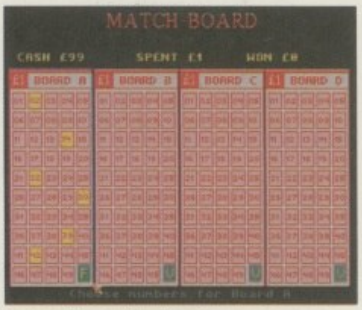
Programmed by: Don Darden
Available from: Darden Designs
(£4.50)

It appears that these days the world and his uncle have written Lottery prediction programs. Fortunately for my sanity's sake, Don Darden is keen to point out that this is not a predictor but a harmless bit of fun, being essentially two Lottery games in one package.

The first game is basically a straight copy of the National Lottery. Starting with anything up to £100, each week you can choose numbers from as many cards as you like and see whether you win anything. The second game works in reverse, so after you have selected seven numbers the computer will produce sets of six balls and if your selected numbers match these, you win.

The high score table can be saved to disk and if you aren't winning very often,

➤



Lottery Player: It's cheaper than the real thing...

...and you can tilt the odds in your favour

You are the everything...

I want to hear from you 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 magic address is:

Dave Cusick
PD submissions
Amiga Computing
Media House
Adlington Park
Macclesfield SK10 4NP

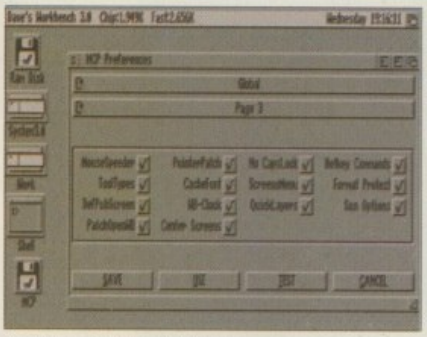
UTILITY of the month

MCP 1.04

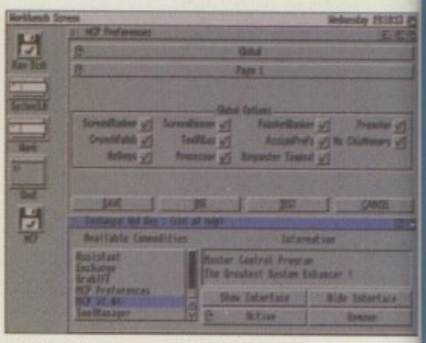
Programmed by: Alien Design
Available from: Pixel Digital PD
(£1 plus 50p P&P)

First there was MultiCX, the commodity that replaced your usual screen blanker and workbench title bar clock while adding numerous features such as the floppy drive click stopper, the black workbench border, a mouse accelerator, activation of the front screen, and so on. Now from Alien Design comes Master Control Program, which hopefully will prove rather less hostile to other programs than the MCP of Disney's Tron which presumably inspired the name.

All of MultiCX's most useful features are duplicated here, along with plenty of newies. These include AssignWedge which allows you to Assign or Mount whenever those "Please insert ??? in any drive" type requesters appear; AppChange, which allows you to change the workbench AppIcons that some programs cause to appear; and the option to change the workbench title bar message. Not all the features on offer are useful, and indeed I thought the animated Movewindow and Sizewindow were awful. But the beauty of programs like MCP and MultiCX is that they can be configured to suit anybody's tastes.



MCP is easily configured from its own Preferences program



MCP is brimming over with options – three screenfuls of them in fact

MCP also scores because the authors have selflessly made it Freeware rather than Shareware, meaning that once you've got it you don't have to pay a bean. And since it was actually on last month's *Amiga Computing* CoverDisk, regular readers will already have MCP.

It's not all roses though – it has to be said that MCP has caused a couple of crashes during the time I've been using it, which is something MultiCX is not guilty of. But this is only version 1.04, and stability is liable to improve in future releases. If the authors at the same time implement some of the features on the To Do list in the ReadMe, MCP could become the ultimate Workbench commodity.

➤

you can increase your chances by altering the number of balls in each draw. Leave things as they are, however, and you've got a cost-free National Lottery simulator which, while perhaps not matching the real thing for excitement, will certainly be a lot kinder on the wallet.

Play this for half an hour, take a look at the money spent and money won displays, and you'll realise, if you haven't already, that the Lottery is certainly not a good bet from a gambling point of view. A better alternative might be to buy this and give a few quid a week to charity.

Alien Bash II

Programmed by: Glen Cumming and Myles Jeffery
Available from: Pixel Digital PD

The Chaos – erm, Alienbash 2, a top-draw shooter if ever I saw one

A shameless copy of Bitmap Bros classic The Chaos Engine, Alien Bash II is undoubtedly one of the best PD shooters I have ever clapped eyes on. Although this is only a one-level demo of what will eventually be an eight-level epic, and features such as weapon upgrades and an equipment shop have not yet been implemented, there is enough here to see that this is an absolute corker.

The gameplay is beautifully simple, consisting of wandering around the huge map slaughtering all manner of alien beasties and rescuing their prisoners along the way. The well-drawn graphics are very much in the style of those of The Chaos Engine, but the lack of originality is, in this case, forgivable because the quality is so high. The frantic blasting action is accompanied by suitably meaty sound effects. These are to be further enhanced on AGA machines in the final version, but are nevertheless pretty impressive here and add considerably to the experience.

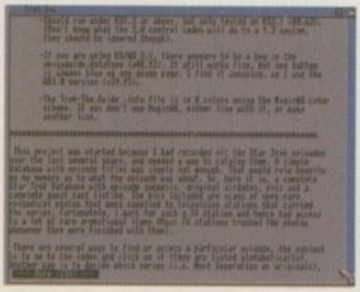
At this stage it doesn't look as if there will be a multi-player option in the final version, which was, in the long term, a very appealing aspect of the Bitmaps' hit. Still, that's a small omission and there is plenty here to keep shoot-'em-up fans occupied for a long time.

It's worse than that, he's dead Jim

Trekkies and Trekkers the world over seem eager to surround themselves in anything and everything Star Trek related. A selection of disks from OnLine PD may therefore be of interest if you have such an affliction.

The Star Trek Guide (Disks OL7A-F) is a six-disk extravaganza which requires a whopping 4.5Mb of hard-drive space but contains details in AmigaGuide format of scores of episodes and all manner of related prattle.

The Magic Trek Pack is a selection of Star Trek pictures intended for use as Workbench backdrops. The images show spacecraft designs and while they are hardly stunning, they beat a dull grey backdrop hands down. Finally, the Starfleet Ships Library (Disks OL13A-C) is a three-disk guide to, erm, Starfleet ships. Or at least it would be, if I could get it to work properly. Anyway, fans of all things Trekful could do a lot worse than beaming these up. AC



The Star Trek Guide is basically hundreds of screenfuls of text, but it'll excite Trekkies and Trekkers everywhere

Find the answer within...

17 Bit Software
1st Floor Offices, 2/8 Market Street,
Wakefield, West Yorkshire WF1 1DH
Tel: 01924 366982
Fax: 01924 200943

Darden Designs
Meadow Lane, Pitstone,
Bucks LU7 9EAZ
Tel: 01296 668184

F1 Licenceware
31 Wellington Road, Exeter, Devon
EX2 9DU
Tel: 01392 438802

KEW=II Software
PO Box 672, South Croydon, Surrey
CR2 9YS
Tel: 0181-657 1617

OnLine PD
1 The Cloisters, Halsall Lane,
Formby, Liverpool L37 3PX
Tel: 01704 834335
BBS: 01704 834583

Pixel Digital PD
Stanley Dock Market, Regent Road,
Liverpool S4
Tel: 0151-259 4017
E-mail: Paul@Pixel.u-net.com

Roberta Smith DTP
190 Falloden Way, Hampstead
Garden Suburb, London NW11 6JE
Tel: 0181-455 1626

BRIAN FOWLER
Computers Ltd

Commodore AMIGA

11 North Street, EXETER, DEVON, EX4 3QS

brian_fowler@cix.compulink.co.uk

compuserve 100072,1536

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 IDE), floppy disk drives, multi-io cards, graphics cards, printers(impact, inkjet, laser), cables, adapters, printer and monitor sharer switches - just about anything Amiga!!!

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

Squirrel

A1200 SCSI Controller.

Now In Stock at only £69.95

JAM

12 Issues of Just Amiga Monthly from £25.00 Pay by credit/debit card. Phone for details!

Call for best pricing on Picasso II or the new CyberVision64

AMIGA

Imagine a drive which is almost [illegible] which takes disks similar to a flop[illegible]

Imagine filling this hard drive, [illegible] the cartridge and instantly having another [illegible] 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]

Want to accelerate *your* Amiga? Talk to us, we know the answers!

SyQuest 270MB SCSI only £399.00

270MB Cartridge just £65.00

External Case/PSU only £85.00

Vlab YUV or VLAB Motion. Excellent value in real-time digitising

---

Fusion Genlock with *free* SCALA500 just £99.00

ScalaMM400 £299.95

New!!! Panasonic PD *New!!!*

Combined Quad CD-ROM and 650 MB Rewritable Optical Drive.

This new system from Panasonic is the first in the world to combine a SCSI2 CD-ROM and a SCSI2 PCR drive in a single 5.25 half-height unit.

For Amiga, PC and MAC

Internal version only £589.95

External Version Also Available.

650 MB Rewritable media only £45.00

AMIGA

Contact us if you want an Emplant or a new mouse or 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!!!

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**

All our hard drives are brand-new and specially selected to work with your Amiga. Fully guaranteed! Phone for latest prices!

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

Quad Speed SONY £229.95

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. £229.95

PC Task 3.10 PC Emulator. Run Windows on your Amiga NOW! Only £79.95

Can't see what you want? Just ring (01392) 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

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.

Prices Correct At Time Of Going To Press. E&OE. Please Phone To Confirm Latest Prices.

bfcl032

Recapturing

Amiga owners are used to talk. In an industry that seems to thrive on hot air and unsubstantiated speculation, no-one knows better than they that certain promises should be taken with a pinch of salt.

So when Manfred Schmitt stood up at the Frankfurt press conference to announce the Amiga's new key role at the head of his ever expanding multimedia empire, it's not surprising if everyone's scepticism didn't evaporate overnight.

Escom's plan to build on the Amiga's technological superiority as a multimedia platform was obviously encouraging, but a number of questions remained. After all, in the Amiga's absence the PC had been marketed so successfully it was almost synonymous with the term multimedia in the eyes of the general public. With even Escom themselves pushing PC multimedia solutions, could the Amiga ever regain lost ground?

Fortunately the promises seemed infinitely more credible thanks to the contribution of two companies: Scala and Viscorp. Both could justifiably claim to have invented their own brand of multimedia, and both teams have experience from long before PC owners had even encountered the winning term. If any third parties were needed to kickstart the new wave, they were the ones. But are th really committed, or is it just more talk ?

To take Scala first, their decision last year to mo into PC development was so shocking to som Amigaphiles it was seen as a death knell. The relief having the company that invented computer televisi back at the helm of Escom's multimedia drive w understandably intense.

As reported in our August issue, the first good ne was the plan to bundle Scala's MM300 package with n A1200s. The fact that the software won't run on the ba machine, however, left some commentators puzzled. "What is t point," some said, "of giving away software that most new owne can't use?"

Barry Thurston, MD of Scala UK, thinks differently: "On t face of it it's a strange package," he conceded. "But it's forci the A1200 into the multimedia environment and almost trying encourage the purchaser to get interested – which is no b thing."

No bad thing indeed, since the A1200 certainly needs to of

something different than the similarly priced super consoles it will be up against this Christmas. But Thurston is aware that more will be expected from the Scala-Amiga Technologies collaboration if the Amiga is to become a really profitable multimedia contender.

Encouragingly, despite their move into the PC market, Scala believe the Amiga can still lead the way to a future of computer television. Thurston explains: "In market areas like distributing information onto TVs, which is what we're about, the Amiga will still be the best machine. It's PAL compatible as standard, plug and play like they say Windows 95 will be, and once Amiga Technologies start producing the machines they'll still be the most cost-effective solution in the area."

It would be fair to wonder, however, how much this commitment is backed up by new Amiga developments from Scala, which currently seem rather thin on the ground. Thurston explains that they've only really started pushing MM400 following the buy-out, as they've been building EXs which expand on the current product's functionality – most recently they've created drivers for the PAR card and Sunrize Studio 16.

The key to Scala's vision of the long-term future, however, is a multimedia standard that will thrive on all platforms, including the Amiga. Far ahead of the faddish approach that some PC developers have adopted, Scala have designed a state-of-the-art, object-oriented operating system called MMOS.

"Object-oriented programming," Thurston elaborates, "basically means that each function in a program is a separate object with hooks which allow it to link with other objects within the program. So whereas before with a Scala product the main menu would be a whole series of things stuck together, now virtually every item is a separate object. It makes it a lot more flexible, pliable and easier to add to."

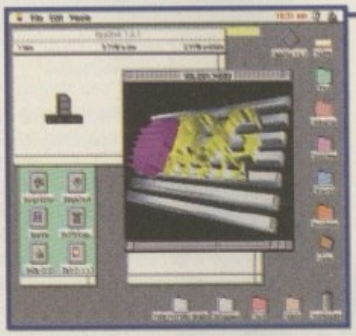
In fact, MMOS is so flexible it can grow to meet new requirements with the minimum amount of difficulty. Thurston gives the example of a customer that wishes to incorporate Scala into an editing suite; previously Scala would have written an EX for it, but now the customer could be given a development pack to create one themselves.

The good news is that though MMOS was developed for the PC, it adapts to the AmigaDOS environment much more readily. According to Thurston, the developers one day decided to port it back to AmigaDOS and were amazed by how quickly they did it. "If we talk in terms of man years to get it onto PC, it took a day to put it back ➤

the vision

The Amiga has been promised a new multimedia future by the men at Escom, but they can't deliver the dream alone. Gareth Lofthouse talked to the third parties that will lead the way

Scala's InfoChannel, an Amiga multimedia champion



They say the Amiga in its current form is too slow, but using Shapeshifter it can run Mac's Quicktime faster than a LC III

This is ED, a Viscorp set top currently doing well in trials in American homes. Gilbreath believes its Amiga-based successor will be even better

The future of interactive television is Amiga based – or at least it will be if Don Gilbreath gets his way

Don't believe the hype

Everyone knows the Amiga was the firstborn multimedia machine. If you were to believe the hype, however, it would seem that it has been left far behind by the PC's dominant brand of multimedia, CD-ROM.

Magazines have trumpeted PC interactive CD as if it were the dawn of a new age, with writers making huge claims along the lines of CD redefining the boundaries of entertainment. And if you asked the developers of such software about the Amiga, the best you could hope for was a patronising smile expressing sympathy.

But while the talk has definitely helped retailers push multimedia PCs into the family home, the actual product is often disappointing. Anyone who's seen the average fare will know there's a lot of clichéd, bland material lurking behind arty interfaces.

If this sounds like the bitter whine of someone who's missed the boat, then you might be interested to hear a few statistics. According to CTW, the computer trade weekly, 90 per cent of the thousands of multimedia CDs that went on sale in the US last year sold less than 100 copies. Now that speaks volumes.

Even makers of acclaimed CD titles are finding it surprisingly difficult to survive, with Medio Multimedia, the makers of the almost benchmark CD called JFK Assassination, recently having to announce it was laying off 40 of its 75 employees. With so many of the CD companies being small start-up businesses, some commentators believe that many will be hard pushed to survive.

Which all seems to suggest that a certain amount of the CD multimedia is not really impressing the public. Dressing encyclopaedias and cookery books up in hi-tech clothing does not necessarily make them into a new and exciting medium.

It's clearly foolish and immature to be overly partisan on this issue. The fact remains that many Amiga owners would jump at the chance of getting products like Microsoft's Encarta, and both hardware and software developers should be striving to match the PC's talents in this field. But it is equally important that we build on the Amiga's unique strengths, rather than jumping on a bandwagon heading for fool's gold. AC

onto Amiga," Thurston explained. "Which says an awful lot for AmigaDOS as an operating system."

"What that means for us," he continued, "is that cross compatibility between scripts will be easier, and it's highly likely that our next generation of Amiga products would be based around MMOS." Which, he went on to point out, will fit in very nicely with RISC Amigas that can emulate MS DOS.

The question remains, however, of what will give the Amiga an edge over PCs already running the system, but Thurston is confident. "It will be superior because it'll run AmigaDOS as well, and from *that* there will be a whole new range of products that are smoother, faster and more fulfilling."

It appears, then, that creative tools are still the key to Scala's vision. Now they're involved in the PC market, however, you'd think they might move in on the supposedly booming interactive CD scene as well. Thurston, however, is nonplussed by most PC CD-ROM.

"Somebody hit upon the idea of sticking a CD-ROM drive in the PC and including a sound card, and they said that was multimedia," he said. "Now, if ever there was a killer application that was it, because it's made an awful lot of companies an awful amount of money."

"But in truth it *isn't* multimedia," he continued. "It just means you've got large storage device that you ca retrieve information from and you ca play sound files but – oh, by the way while you want to access informati your sound is going to stop becau your PC can only do one thing at a tim I think the general public on the PC h been cheated from true multimed because of what various manufacture have done."

Thurston does concede that the P has certain advantages, the main on being the quality of games from which, his view, the PC owner gets their on taste of true multimedia. But it's still rel tively expensive. "The Amiga is still t best machine affordable on the marke Thurston emphasised. "It's multimed for the masses, if you like. Hopeful Amiga Technologies will be able t maintain that."

Scala success stories

Scala's record of success has put the Amiga home computer at the heart of some of the world's biggest corportions:

Ford, Esso, Trust House Forte, SAS International Hotels and Co-op Supermarkets.

High hopes

If Scala can take almost sole credit for inventing the multimedia software environment on the Amiga, Don Gilbreath has an equal claim on pushing the hardware in a similar direction. Now Chief Executive of the American-based Viscorp, the inventor of the CDTV and CD32 is back with high hopes.

Following a deal struck shortly before the Frankfurt press conference, it is Viscorp that stand to benefit first from Escom's liberal approach to licensing by incorporating Amiga technology into a new set top box.

Interactive TV in the US is at a far more advanced stage of development than in Europe. Like his numerous rivals, Gilbreath is hoping to bring video on demand, home shopping and interactive entertainment into the family living room all under the control of a TV top unit. Unlike his competitors, however, he thinks he can do it at an affordable price – thanks to the Amiga.

Gilbreath explained that using Amiga technology would cut down costs thanks to the way it used and encouraged writers to use memory economically. "What happened was that a lot of the entertainment writers didn't have the luxury of 16Mb main memory like you got with a PC," he said. "In a way it forced them to write efficiently and it forced applications to be efficient."

He continued: "That helps us because memory is the highest component cost in any set top box. You look at some of the set top offerings in this country: There were requests for bids for machines to be made at a certain price, but people were coming up with units that needed a crazy amount of memory – ten times what the Amiga would need! Which, of course, just killed the whole thing."

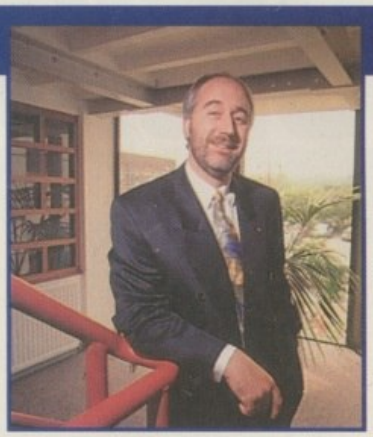
In general, it seems the whole issue of price could be the decisive factor in terms of who wins the race to bring multimedia to the masses. Outside the set top box field, Apple Mac's Pippin is just another example of an impressive spec machine that's been indefinitely delayed because they can't deliver the goods at an affordable level for home use.

The lesson is clear to Gilbreath. "To be successful the initial cost is the key. We feel that with the Amiga we can reac these target costs."

In Europe, the concept of the set to box is largely unheard of, so what cou purchasers of Viscorps model expect According to Gilbreath, the TV-base technology will incorporate a voic phone, a fax, Internet access, plus an al in-one access point to a variety of diffe ent network services with everything co trolled using icon-based menus via you remote control.

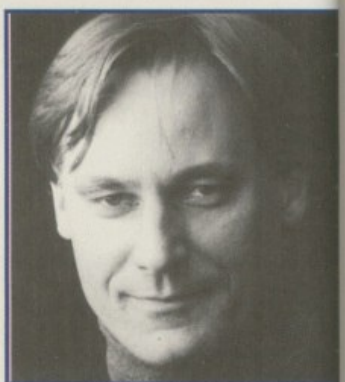
Clicking on one icon will allow the use to jump into a multimedia, potentiall graphical, vivid world. Since it's Amiga based, Gilbreath also forsees the poss bility of incorporating CD and authorisin synchronised CD-based games.

Up to this point, however, the produc sounds like an extension on typical com puter-based product's technology. In fac the project is rather more radical tha that. "We see a computer world which well versed in interactivity," Gilbreat



Barry Thurston, MD of Scala UK, outlines his vision for the future

Elegant interfaces are the key to information access



"Scala lets us promote ready-to-use multimedia solutions. Escom now turns from a PC manufacturer and retailer into a multimedia company – we see this as a key to success." Manfred Schmitt at the Frankfurt Press conference

Tinkering with the engine

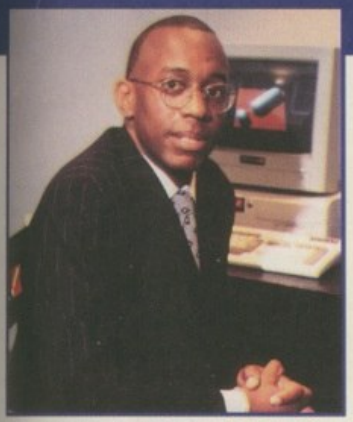
Positive though Viscorp and Scala are about the Amiga's prospects, the new machines have some catching up to do with other platforms if they're going to have a chance of competing. Fortunately, it seems Amiga Technologies are well aware of this – hence the commitment to a RISC-based Amiga.

In the nearer future, Barry Thurston agreed that bundling a CD drive with the Amiga was going to be important, and he added: "Hopefully it could spawn true multimedia products along the lines of Encarta, but obviously a lot more accessible and quicker." But though a CD-inclusive package was mooted at the conference, how long before it appears is another matter. Ideally, Escom need to get it ready for Christmas, but by the sound of things we could be waiting until Spring 1996.

If Amiga users are going to get products like Encarta, however, a more fundamental change would have to be made at the heart of the Amiga. PCs and Macs are able to show video footage running in a small window next to text and other graphics, whereas the Amiga would have to cut to a different screen.

The reason for this is that the other computers use chunky pixel graphics which make 256 colour images move as fast as two colour images. By contrast, the Amiga uses bitplane graphics which become slower the more colours you use.

It's argued that the Akiko chip, which was incorporated into the CD32, was a way around this problem, but since nobody has exploited the technology, that remains to be seen.



Dennis Phillips, the joint MD of Scala's UK division

explained. "Then there's a whole community of TV people who may not have a computer. What we are driving towards is more TV centric hardware and software."

Thus, Viscorp's previous set top experiments typically had built-in genlocks to make them very television friendly. And if you think TV centric software sounds like no more than another empty buzz term, it's an eye-opener to see what Viscorp have already achieved with a non-Amiga-based box named ED.

MAX ED-ROOM

For example, ED already has an unusually convenient on-screen TV entertainment guide. It differs from a facility like teletext because users will be able to select programmes that interest them, and automatically set the VCR up to record them at the same time.

Then there's the matter of Viscorp's license to NTN, a company bearing rights to a number of key sporting events. NTN actually transmit live action to ED and users are given the opportunity of betting in a 'What happens next?' game.

"It's a way to get involved with the sporting event you're watching, and over the whole country you could be playing with 20-30,000 people," Gilbreath said. "We see that happening with a lot of different TV shows."

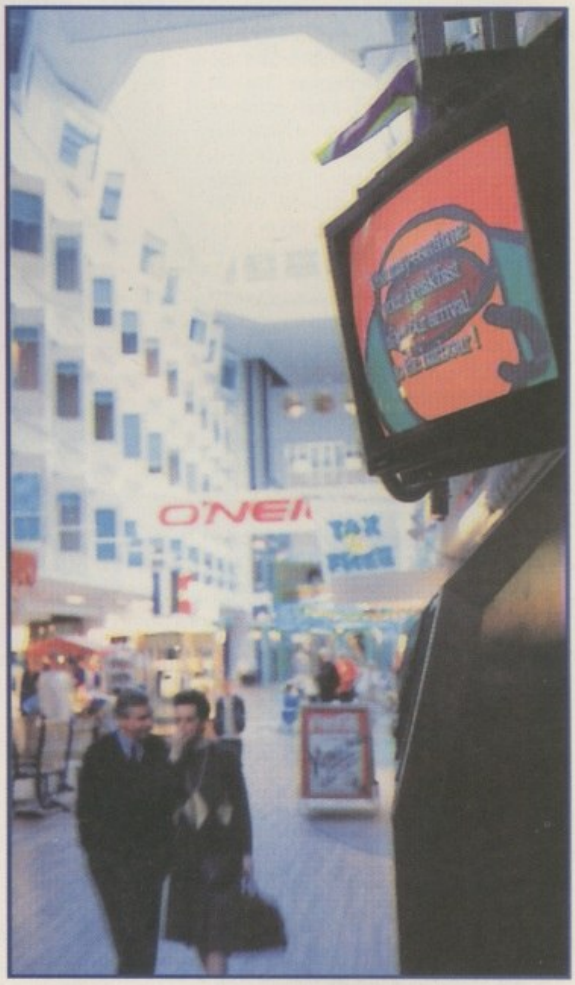
All of which sounds impressive, but one would expect that the new Amiga-based set top box would be a long way off in development time. According to Gilbreath, however, making the new product is the easy part. "Electrically, the Amiga-based product exists but we've not deployed it yet," he said. "Before we can do that it's about lining up a sufficient amount of roll out developers to have titles ready. The product itself is not a problem since it's based on a merging of our previous experience."

Gilbreath has seen radical technology flop before, including his own CD-TV, so he realises having a good base product isn't enough. "This is a very expensive business to be involved in," he explained. "If the battle was just about technology this box would be a very strong winner. But it comes down to content; if you bring out a new player you need enough supporting software on launch."

If anything gives the Amiga a fighting chance, it's not the hardware but the talent that can exploit it to the full – a fact stated by both Scala and Viscorp. Barry Thurston called the Scala programming team heroes of the Amiga world. Gilbreath is equally adamant that Amiga people are smartest in the set top field.

"There's a base of software writers that know AmigaDOS **and** know television and entertainment," he argues. "We know of other computer-based companies doing similar stuff and television is not their normal playback medium. We think our people are better equipped to do the job."

A lot of promises have been made over the last few years, and lot of promises have been broken. With teams like Scala and Viscorp leading the way, maybe this time things will be different.



Computer television will become an everday part of life, and the Amiga leads the way

Slowcoach myths

If people moan about one area in which the Amiga has been superseded by its rivals, it's processing speed. New PCs and Macs are just so much faster, it won't be possible to do half the things they're capable of until the RISC machines come through – or so they say.

Of course speed is very important, but for multimedia the Amiga is a lot more capable in this area than many realise. Interestingly enough, the Shapeshifter Mac emulator ran animations and video faster on an Amiga 030 processor than on many of the Macs in our office.

The fact that Escom have dropped the IDE-based A4000 desktop in favour of the SCSI equipped A4000T will also prove a big help. Barry Thurston points to faster transfer rates as being vital when planning for the playback of motion video. Add to that the fact that it allows the connection of better quality peripherals, and more of them, and this will give the Amiga access to some very powerful multimedia tools indeed.

Four wheel drive

Ben Vost beefs up his Amiga with the new Panasonic PD drive

At the start of this year, Panasonic announced a new dual-function quad-speed CD-ROM drive. So what? Well, it was a quad-speed CD-ROM drive and – this is where it gets good – a 650Mb magneto optical drive all in the same box, but for not that much more than a standard quad-speed drive. The adverts started appearing and eventually we got one to look at for ourselves. So is it any good?

Let's start with the way it is built. The drive looks like any standard CD-ROM drive from the outside with the exception of the PD logo on the front panel. When you open that panel you will notice another difference. It has a tray within a tray kind of affair, one for the PD cartridge and one for a normal CD. Because of the height difference between a standard CD and one of these cartridges, this tray within a tray thingy becomes necessary – the interior tray moving upwards when it retracts if there is a normal CD in it.

The PD cartridge itself actually shares many of the same dimensions as a CD-ROM caddy – which you should have some familiarity with if you own an older CD-ROM drive. However, the PD cartridge will not work in caddy-based CD-ROM drives which is a great shame as it would certainly put this drive into my all-time top ten list of products.

SITTING PRETTY

The drive is nice and easy to install with jumper-based termination (rather than resistor packs which can be awkward to remove and replace) and sits quite happily in the top bay of my machine. Software installation is certainly a lot less complicated than the many disks of installation software for the PC and Mac included in the box would suggest.

If you are using an Amiga with a SCSI interface built-in like an A3000, nothing needs changing. However, the drive isn't particularly happy with all controllers – it does work on a GVP controller and also on our A2091, but it didn't like the A4091 SCSI II controller we use in our A4000 at work. If you do get it working then all you need do is load up HDToolbox, or its equivalent on your machine, and partition the cartridge the same way you would with any new hard drive. As for the CD-ROM side of things, using AmiCDROM is extremely simple and you can set up the PD drive as a CD-ROM unit with the same ease that you set up the cartridge side of things.

How well does the drive perform? According to SysInfo the cartridge runs along at a nice steady meg a second, although copying files to and from the drive in DOpus puts the lie to those figures. In a test I did copying roughly 10Mbs worth of 24-bit pictures, it took six minutes and 40 seconds to write all 10Mbs to the PD drive, and just one minute and 50 seconds to copy them from the PD drive back onto my hard drive (which, incidentally, is rated as giving me a little over three megabytes a second).

This obviously means that in real world terms the drive only writes at about a meg every 40 seconds, not quite as fast as SysInfo suggests. On the plus side it does mean that the drive reads at about a meg every eleven seconds – still not a great speed but at least better than its write speed. I should point out, though, that the speed for reads and writes does vary quite a lot and is not always as slow as the figures I have printed. The CD-ROM's speed is a lot more predictable. Seeing that the drive is supposed to be a quad-speed drive, you'd expect to get around the 600k a second mark. And, no surprises here, that's exactly what you do get.

In conclusion, I would have to say that I wouldn't use the Panasonic PD drive as an everyday replacement for a hard drive, but if you are going to use it for archiving or as a final step before mastering a CD then this unit provides significant value for money. For users out there that haven't yet bought a CD-ROM drive, it is perhaps worth waiting for a bit and saving up that extra cash to get your hands on an additional 664Mb of hard drive space at the same time. As each additional 664Mb cartridge only costs fifty quid it remains probably the cheapest way of beefing up your Amiga at the lowest possible cost AC

Compatibility crossroads

It is a shame, as I already said, that the cartridge system isn't a little more compatible. If it worked in the same way as standard MO drives there would at least be some cross-'platform' compatibility. As it is, the only drive you can read a PD cartridge in is Panasonic's own drive. It also has to be hoped that the PD drive is going to be more compatible in the future with hard drive controllers. Some of the SCSI controllers the PD drive does work with include the GVP hard card, HiSoft's Squirrel controller, the embedded SCSI controller in A3000s and thus Commodore's own A2091, and the new DataFlyer SCSI controller for the A1200.

SYSTEM ESSENTIALS

RED = Essential **BLACK** = Recommended

SCSI controller

The bottom line

Product: Panasonic PD drive
Price: £569.95
Supplier: HiQ Ltd.
Tel: 0181-909 2092

Ease of use	**9**
Implementation	**8**
Value for money	**9**
Overall	**9**

BOOK YOUR NEW AMIGA 1200 NOW!

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

DS/DD Grade A+ DS/HD

50 3.5" Disks	£15.99	£18.99 + 100 cap lockable box	Add £4.00
100 3.5" Disks	£27.99	£28.99 + 100 cap lockable box	Add £4.00
150 3.5" Disks	£38.99	£41.99 + 2 x 100 lockable box	Add £8.00
200 3.5" Disks	£48.99	£51.99 + 2 x 100 lockable box	Add £8.00
300 3.5" Disks	£73.99	£76.99 + 3 x 100 lockable box	Add £12.00
400 3.5" Disks	£98.99	£101.99 + 4 x 100 lockable box	Add £16.00
500 3.5" Disks	£104.99	£126.99 + 5 x 100 lockable box	Add £17.50
1000 3.5" Disks	£189.99	£234.99 + 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

AVAILABLE HERE VERY SOON

NEW A1200 PACKS

CALL NOW!!

ON FREE PHONE 0500 737 800

TO BOOK YOUR PACK

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

AMIGA 1200 CD ROM DRIVE

Overdrive Double Speed CD	£174.99
Overdrive Quad Speed CD	£234.99
Overdrive Double Speed CD Including space to install a hard drive	£194.99
Squirrel SCSI-2 Interface Plugs into your PCMCIA & allows you to connect 7 SCSI devices	£69.99

AMITEK HAWK RAM BOARD FOR A1200

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

FREE DELIVERY

INKJET CARTRIDGES & REFILLS

HP Deskjet Black Dual Capacity Cartridge	£20.99
HP Deskjet Black Dual Capacity Refill	£15.99
HP Deskjet 500C/560C Colour Cartridges	£23.99
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
Epson Stylus Colour	£35.99

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

EXTERNAL OVERDRIVE HARD DISK

Provides games and data portability to A600/A1200.

260Mb £204.99 560Mb £234.99

INTERNAL 2.5" + CABLE + SOFTWARE

80Mb 2.5" £89.99 250Mb £199.99
170Mb 2.5" £139.99 340Mb £209.99
210Mb 2.5" £174.99 520Mb £284.99

INTERNAL 3.5" + CABLE + SOFTWARE

420Mb 3.5" £159.99 840Mb £239.99
540Mb 3.5" £174.99 1000Mb £284.99

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, Sony)	£49.99
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	£8.99
3.5" Disk head Cleaner	£1.99
Python 1M Joystick	£8.75
Maverick 1M Joystick	£10.99

ADD £2 FOR DELIVERY

NEW PRINTERS

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

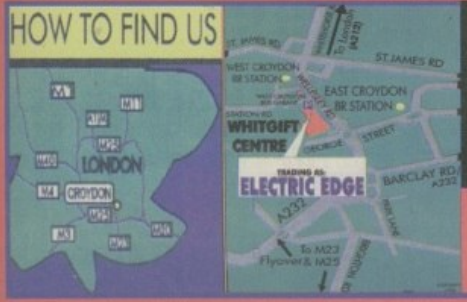
Amitek Monitor 1084S

£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.

VISA AMERICAN EXPRESS SWITCH

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

LAND AIR SEA

VISAGE COMPUTERS

27 Watnall Road, Hucknall
Nottingham NG15 7LD.
Tel: (0115) 964-2828
FAX: (0115) 964-2898

AMIGA HARDWARE

HARD DRIVES

WESTERN DIGITAL

3.5" IDE

540MB	12ms	£149.99
630MB	10ms	£189.99
850MB	10ms	£189.99
1.2 GIG	10ms	£289.99
1.6 GIG	10ms	£479.99

QUANTUM

3.5" IDE

170MB	12ms	£89.99
270MB	12ms	£99.99
420MB	12ms	£129.99
540MB	12ms	£149.99
1 GIG	10ms	£259.99

3.5" SCSI-2

270MB	12ms	£169.99
540MB	12ms	£199.99
730MB	10ms	£249.99
1 GIG	12ms	£449.99

CONNER

3.5" IDE

420MB	12ms	£129.99
540MB	12ms	£149.99
850MB	10ms	£179.99
1.2 GIG	10ms	£259.99

SEAGATE

3.5" IDE

420MB	12ms	£129.99
540MB	12ms	£149.99
850MB	10ms	£199.99

HITACHI

Amazing Prices

2.5" IDE

340MB	12ms	£169.99
510MB	12ms	£229.99
850MB	12ms	£399.99
1.2 GIG	12ms	£649.99

EXTERNAL HARD DRIVES

A500 ALFA POWER

170MB	£179.99
270MB	£199.99
420MB	£229.99
540MB	£249.99

EXTERNAL HARD DRIVES

A1200 OVERDRIVES

270MB	£199.99
420MB	£229.99
540MB	£249.99
850MB	£289.99
1.2 GIG	£389.99

PRINTERS

EPSON

Stylus Colour inkjet printer offers photographic like quality when used with optional 720DPI printer drive (coated paper required). Built in auto sheetfeeder.
Only £429.99
Coated 720DPI paper

STUDIO 2 - PRINTER S/W

Professional print studio for the Amiga. Enhance the output of your printer inc. 720DPI on Epson Stylus Colour.
Only £49.99

SEKOISHA SL-96

High quality 24 pin colour printer. Scalable fonts, tractor feed. Rated 86% CU AMIGA.
Only £149.99

SEKOISHA SP-1900+

9 pin dot matrix printer. Single sheet or Tractorfeed.
Only £114.99

MODEMS

14,400 EXTERNAL

BABT approved FAX/Modem. Complete with all leads, PSU and Comms software.
Low Price £114.99

28,800 EXTERNAL V34

Super-fast BABT approved FAX/Modem. Complete with all leads, PSU and Comms software.
An unbeatable £174.99

GOLIATH 200WATT PSU

Solve all your power problems with the Goliath. Three times more powerful than a standard PSU £44.99

ACCESSORIES

240 CAPACITY DISK BOX

The Logic3 stackable storage box holds up to 240 disks. Easy to assemble includes metal lock and keys.
Only £12.99
ASK FOR QUANTITY PRICES

ALFA DATA PRODUCTS

Megamouse-400dpi	£12.99
Megamouse-3 Button	£14.99
Auto J/Mouse switcher	£12.99
AT-Bus 2008/IDE	£79.99
AT-Bus 2008/SCSI	£109.99
AlfaPower/A500/IDE	£89.99

CDROM DRIVES

POWER CDROM

External SCSI CDROM for the A1200. Plugs into the PCMCIA port, Fast 300Kb/Sec transfer rate. Connect up to six other SCSI peripherals.
Dual Speed £199.99
Quad Speed (600Kb) ... £299.99

A400 version, as above but without PCMCIA interface (Dual Speed) £169.99

MITSUMI FX400

Internal IDE CDROM unit for the A400 (requires tandem CDROM controller). Super-fast 600Kb/Sec transfer rate.
FX400 CDROM £149.99
FX400 Plus Tandem CDROM controller card £199.99

NEC 512 X6

Internal SCSI CDROM DRIVE. Incredible 900Kb/Sec transfer rate.
Only £349.99

VISAGE ATAPI CDROM

Please request your free news sheet regarding this amazing new product. External Quad-speed CDROM unit that plugs directly onto your internal IDE port (requires no additional interfacing).
Only ..... £CALL

All 3.5" IDE drives require a 2.5" - 3.5" cable only £15.00 when fitted into a A600/A1200. Drives come prepped, formatted and installed with 100MB of FREE Public Domain software. All carry a 2, 3 or 5 year warranty.

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

APOLLO ACCELERATORS

APOLLO 1240/33/SCSI2

Call For Details

The worlds fastest 1200 is on this page...
Superfast 68040 running at 33MHz, Built in 68882, MMU & SCSI2 controller (3.5MB SEC). One 72 pin simm socket Estimated speed (30+ mips).
Available September for only £499.99

APOLLO 1230/50/SCSI2

The fastest 030 card available for the A1200 uses a 68030RC50 running at 50Mhz. Built in MMU & SCSI2 controller (3.5MB SEC). Two 72 pin SIMM sockets.
Price £279.99

APOLLO TURBO 1220

Awarded a 90% CU AMIGA SUPERSTAR the 1220 combines the best Price/Performance ratio for any Amiga accellerator. 68020 running at 28Mhz, integrated 68882 FPU, one 72pin SIMM socket (1-4MB) Realtime clock.
Price £99.99

APOLLO A4000/040/28/33/40

NEW

The new APOLLO A4000 accellerator cards fit into the CPU slot of your A4000 (A3000T). Comes in 28, 33 and 40Mhz versions, 4 x 72 pin SIMM sockets, SCSI-2 controller.
Price.....£CALL

Please call for your free information pack for the Apollo range of products.

32BIT MEMORY SIMMS

4MB	£129.99	16MB	£399.99
8MB	£269.99	32MB	£799.99

The above SIMMs are 72pin industry standard PS2 70ns.

AMIGA TECHNOLOGIES

PLEASE CALL FOR THE LATEST NEWS AND PRICES ON THE NEW A4000T/040/06

VISAGE COMPUTERS

WE'RE BACKING THE AMIGA!!!

HOW TO ORDER

BY POST - Please make cheques and postal orders payable to *"Visage Computers"*. Please allow 5 working days for cheques to clear.

WE ACCEPT ALL MAJOR CREDIT CARDS INCLUDING SWITCH & VISA DELTA

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

CALL (0115) 964-2828 OR (0115) 964-2898 TO PLACE YOUR ORDER

Four animators and an Amiga

After looking at 3D animation in past issues, Adam Phillips talks to four 2D artists who are making Amiga animated art

Computer 2D animation has been having a rough time of it over the last few years. After the eye candy niceties of LightWave, Wavefront and 3D Studio and its professional users, 2D is seen as something from the past that should remain there indefinitely unless produced by Disney. There's no lens flare, no 2,400 lights illuminating the undercarriage of a space freight and no 3D chases through 24-bit deep space.

Indeed, computer animation is inherently seen as a 3D format of polygons, bitmapped textures and splining because the medium lends itself so well to the genre and for the last few years has been seen as the best option for achieving the impossible. The likes of Jurassic Park and Lawnmower Man to Babylon 5 and SeaQuest DSV have created a myopic view of computer's potential throughout all areas of silicon art.

After this initial flux of enthusiasm in one area, it's now becoming more apparent that artists and animators from all walks of life are finding ways of turning the 3D legacy into something else far, far removed.

Amiga Computing thought it was time to turn the spotlight on the unsung heroines and heroes who are making real waves in the animation scene to ask them what makes their Amiga such a vital component in the production process, and what techniques they use to turn the ordinary into the extraordinary.

An anim for all seasons

Artists have an image problem. Judging from the media, it appears that there are two distinctive types. The commercial artist who's in it just for the money (to eat, clothe, live and so on) and the individual artist whose work apparently shouldn't be funded because it only appeals to a minority. While there are extreme cases of stereotype in both areas that inflame public contempt and do more damage than good to the arts scene as a whole (witness Camelot's award of £55 million to the Royal Opera House and the subsequent backlash that has people muttering that money should be given solely to charities, never mind the Arts Council), many artists are genuinely trying their best to bring something fresh, original and individualistic to the small and big screens.

Despite the supposed black-and-white nature to the arts, the majority of people operating in the grey areas in between are working in both arenas and creating original and exciting work simultaneously.

Take Jonathan Hodgson. He's been animating for the past 15 years using a variety of media. His commercials include SAAB, Kilmeaden Cheddar and program intros for White Heat (BBC1), Kersplat (Channel 4), Nelson Mandela (Channel 4) and Classic Trucks (Channel 4). Originally an illustrator, Hodgson came across animation while studying at Liverpool arts school and decided that the moving image was far more interesting. As with many art schools, the slant was very much on the experimental – a tradition that Hodgson still swears by today.

He had his first introduction to computers, specifically the Amiga, only a year ago when he applied to the arts council for funding for a short experimental animation that'll be screened as part of the FourMations series on its completion. Since that time, the computer has become a vital part of his animation process. He has since produced an intro animation for Channel Four's Classic Trucks series (detailed below).

MENTAL GRAFFITI

Meanwhile, Hodgson continues to work on his animation. Described as 'mental graffiti', using a variety of different medias from charcoal to video, the basic theme behind the film is what goes on inside someone's head while doing something as mundane as walking to work. The Amiga is being used as a vital part of the production with the now famous PARcard taking centre stage for the management and playback of all images (detailed below).

So impressed is Hodgson with the Amiga that he's planning to produce another film created solely on the machine. The appeal of using the Amiga is the speed of adding a variety of effects: "You can turn a photographic image into an outline image within seconds. Also, the potential for the likes of morphing is very exciting" commented Hodgson.

"While uses so far have been very obvious, there's lots of stuff yet to be ➤

done. Take typography – a hundred new typefaces can be created by morphing a single typeface and creating subtle differences and changes. The same could be done by morphing two pictures together. There's an endless resource that's just waiting to be fully exploited."

Furthermore, the price of the equipment compared to the likes of a Quantel paintbox plus the hire charge of an operator has proved a strong selling point to many animators including Hodgson: "It's amazing that you can do so much on a system now. It costs a fraction of the high-end systems – it's a crude Harry (Quantel)."

There is a downside to all this enthusiasm though – at present, he sees the use of computer graphics as a little limited: "There seems to be too much emphasis on style and techniques and how realistic you can make something. A lot of 3D stuff bores me – there's a real lack of content usually and the concepts behind the images are generally science fiction-based."

Like any tool as well, he knows it takes time to get used to the computer: "There are so many options available that you can frequently find yourself disappearing up a blind alley and wasting time. The good side to this, though, is the potential for discovery as well."

Despite his own success using the Amiga, Hodgson can never see himself moving solely onto a computer platform. "Personally, the future of computer graphics is how they fit in with other techniques – that's when things are going to start getting really interesting."

Sounds like a recipe for multimedia to me.

Classic Trucks

For anyone who saw the Classic Trucks series on Channel 4, Hodgson designed the vivid intro sequence. He was helped by Dan Arnall who works for Marjut Rimmenen, also interviewed here. What follows is a breakdown of the intro and how the various effects were achieved.

All the images here have been taken from different sources. The flyover, clouds, and trucks were taken from various books. The man walking across the frame is a friend of Hodgson and as his feet step into the post-production-added puddles, splashes are formed. These were created in Brilliance and the whole scene was composited together using the package.

Hodgson took the shape of the fender and mapped on the reflection of the man as he appears to walk past the truck. The actual truck image was bent slightly to give the illusion of perspective. The bright palette was painted afterwards. All the work was done with Brilliance.

Big CU of the wheel was taken from a photograph. After putting the page on the computer, the live action of a man climbing into a truck was mapped on to the hub cap and wheel nuts. All the shots used in the intro were converted into a 16-colour greyscale instead of 256 which slowed down the hard drive and used too much space.

The blue in the top right-hand corner was added frame by frame using Brilliance's filled shape option to create the pulsating palette. That whole section was masked off to achieve the effect.

The various areas of different colours were traced off separately and filled. Brilliance was used to add more contour and shape to the splash. Finally, hard edges brought about by importing images were removed the using smear and smooth options.

Two shots were taken here – one out-of-focus on the window and the other in-focus. After the frame of the window had been stencilled out, a variety of transparency layers were added using Brilliance – a man ordering inside the café, a building, a truck passing and in the section which becomes the Classic Trucks logo, a video of a lorry approaching the camera, its lights painted in and its number plate removed.

Hodgson morphed using Morph Plus to the in-focus shot because he felt that simply mixing would have seemed highly unrealistic as a focus pull. As we pull focus, the Classic Trucks logo comes into view. The shot took a week and a half to complete – there are seven different layers in all.

Feeling My Way

The film that Hodgson is working on currently, 'Feeling My Way', is an experimental piece shot on Hi-8 and will last about seven minutes. Charting the mental outpourings and process of a worker on his way to the office, the whole thing is shot from his POV. Hodgson knows that the basic premise is hardly gripping, but from what I've seen of his animation additions the piece looks excellent. The process firstly involves shooting the Hi-8 material and then adding the effects on afterwards. What follows is a breakdown of that process.

What she always wanted

Channel 4's FourMations series has shown some of the leading work produced in the field of animation and, last month, featured a program dedicated to the computer animators. One artist showcased was Ruth Lingford, a one-time occupational therapist turned professional animator. For those who saw her short animation entitled "What She Wants" they can hardly have failed to notice the sometimes shocking and sexually-oriented content.

Lingford's uncompromising style has won her acclaim and work on an increasingly large scale. Her love for animation didn't blossom during her teen years though – while she studied on an art foundation course after leaving school, her career before animation was dealing with mentally ill old people as an occupational therapist. One day, she realised she was simply running out of care – with a husband and two children to look out for in the evening on top of the already stressful day job, Lingford decided that an alternative and permanent career move was needed.

With the financial support of her husband, she undertook a Fine Art degree course at Middlesex Polytechnic in the mid-'80s and came across animation quite by accident in the course syllabus. "It was one of those life experiences – I knew what I wanted to do when I grew up. With animation, you can make things do whatever you want. There are no restrictions" enthuses Lingford.

Because of her animation work, she was accepted into the prestigious Royal College of Art to do an MA in animation and in 1992, graduated. While there, she had spent some of her time using the high-end Macs and software to create work and experiment. The first immediate problem on leaving was where to find a computer that could replace the more costly methods of traditional animation.

In 1988, an Amiga 500 was bought for the children to do a spot of word processing. At the time Lingford had a brief look at Deluxe Paint 4 but had not been impressed initially by its primitive look and design. On experimenting further, though, she realised the Amiga system did offer enough to make creating animation at home a viable proposition. The next

Video footage – starting in a house and then on to the streets of London, Hodgson has tried to capture exactly what you would see and look out for on the way to work – passing shops, looking at your shadow, moving through a busy crowd on the way to a train, and reading signs. After shooting a mass of material, it was all transferred on to the...

...PARcard – where a logging sheet directory was created with times of the footage's position on each tape next to the file name for easy reference. All shots are loaded in a low Q factor to save memory. Hodgson's original plan was to shoot on film and then get full size photographic prints of the appropriate shots. It proved to be impractical and costly. He heard about the PARcard and the rest is history.

He creates an assembly edit of all the shots he wants to use and then reloads those chosen ones in on a high Q factor. Using Batch Factory and Image F/X to organise and convert the images into IFF/24, he then uses Studio software to print out each scene frame by frame on his HP1200C printer. Each frame takes 4-5 minutes to print out

...Animation – with each frame printed out on special punched paper to fit an animation peg bar (holds the sheet in place on the rostrum), it's time to add the various effects with a variety of different media. Hodgson wanted to convey how we see the world as a series of focal points. In this example, a white stencil is placed over a road scene obscuring everything other than the sign. He then draws in, using pencil, outlines of key objects in the scene as passing impressions – as if we don't really take any notice of what we see unless focusing directly on to it. Once done, the frame is recorded by the...

...Hi-8 camera – and straight onto the PARcard, producing the finished animated scene

In this scene, we see the walker looking at his shadow as it changes and turns into a bizarre landscape

Jonathan Hodgson: "Personally, the future of computer graphics is how they fit in with other techniques – that's when things are going to start getting really interesting"

Animate!

Anyone interested in possible funding for their animation should contact the Arts Council. Focusing on innovation in animation, Animate! was set-up six years ago by the council, with support from Channel 4 to fund artists producing risk-taking work. Currently there are 30 projects either underway or finished, and six of those involve digital technology – three specifically the Amiga.

For further information, contact Gary Thomas, the assistant film and video officer on 0171 333 0100 ext. 410.

step was to apply to the Arts Council for a grant to start work on her first animated short created entirely on a computer. The application was successful and with part of the money, she invested in a second-hand 1500 and a SummaSketch III tablet board. DP4 was selected as the package to do all the animation on and What She Wants (detailed below) was started.

The attention the finished piece received won her a place at the Museum of the Moving Image as an animator in residence. Akin to being put under a microscope, Lingford sat in a room working all day while the public watched in from the other side of pane of glass.

The bonus to the experience though was a proper commission with real money and development time to work on her up-and-coming project, Death and The Mother, an adaptation of a lesser-known Hans Christian Anderson story. In fact, Channel 4 liked her storyboard so much that production begins in September with a budget in the £40,000 area.

Her other work shows the diversity available to animators. From producing short animated sequences for the CD-ROM version of the best-selling Griffin and Sabine trilogy now being produced by Peter Gabriel's Real World multimedia company, to a 20 minute training animation on how to deal with the problems of glue sniffing, her work is varied but boasts her own individual style. In the meantime, she has upgraded to a 4000 and the PARcard.

With a healthy portfolio of animation tucked into one video cassette, she sees computer animation as an ideal media: "What's happening now is very exciting. Back in the old days, we were all terribly scornful of computers. People at college now find they can do what they want with computers and aren't having their work affected by clumsy technology."

FUTURE THOUGHTS

As for the future, Lingford is equally optimistic: "Anyone will be able to animate – I don't find that thought threatening. At the end of the day, it's all about the idea behind the animation not the technique, and computers offer an ideal platform to get started."

She still believes, though, that people must learn the fundamentals of animation creation to give them the necessary knowledge to make a solid start. Her advice for budding animators is simple: "I'd just use DP4/5 and draw using the light box. Draw the movement first to get a feel of what animation is all about. The look can come later."

She also sees computers as offering an excellent way of learning the ropes. In between her animation work she has been teaching at the University of Humberside and some days at the National Film and Television School.

"With something like walk cycles, you're always going to get it wrong to begin with. It requires lots of practise and I noticed while teaching that students have a tendency to be very precious when drawing with pencil and paper" Lingford explains.

"It takes them a long time as they painstakingly draw out each frame. The majority, though, end up with a walk cycle that doesn't work. With a computer, the investment required to produce a result is so slight that you're not as precious and can rattle off example after example. It's a very good learning tool."

What She Wants

For her first animation, Lingford wanted a challenging subject matter. The theme behind What She Wants is twofold. Firstly, she wanted to create an erotic animation – there has always been a school of thought that believes it's impossible to create such a thing because animation doesn't allow the viewer to become fully involved with the animated characters. Secondly, it was reaction against the apparent increase in sexually-related material in the media – she felt as if she was being told that everyone should be having sex and thinking about it, almost as if a form of control. "It's a paranoid attitude to a certain extent but it seemed that sexuality was being manipulated to make us bigger and better consumers."

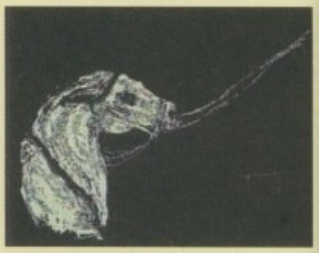
With this double-edged sword in hand, What She Wants took nine months to fully complete and proves to be an animation that doesn't pull any punches. Her main process was to put a series of seemingly unrelated images together and come up with new ideas and connections – she feels the project was successful on the whole. What follows is a breakdown of the two main processes featured in the anim.

Black and white sections

Each image in this section was copied from a painting by Delacroix. The process is simple – this Romanesque man was created using the unbroken and broken line option in DP4...

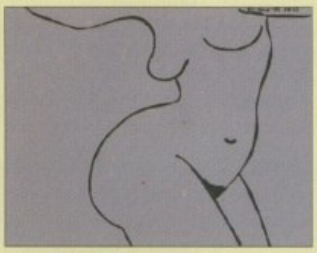
... and Lingford drew in the relevant changes to turn the image into...

... a woman. Lingford didn't want to cut and copy in between because the end result would have appeared jerky. Also, morphing was ruled out simply because it would devoid the animation of any real style

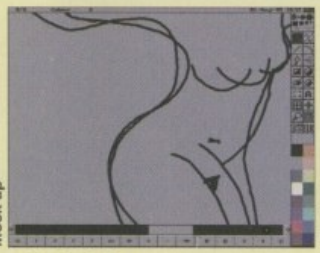


The arm and body of the woman turn into a horse's neck and head. The process is very similar to the old tradition of painting on glass – take parts away and add new ones

Colour sections



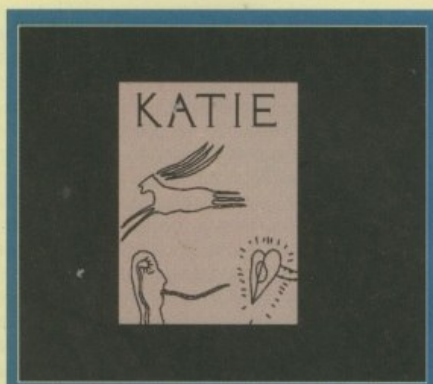
The starting point was on DP4's lightable facility. The image was drawn up using the thick black line...



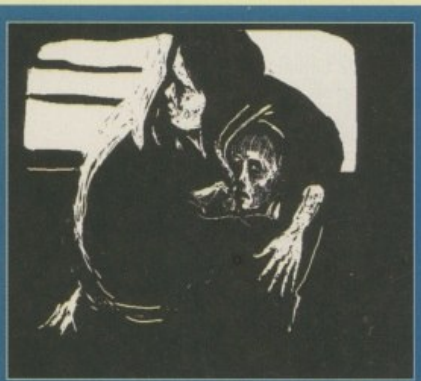
...Lingford then moved ahead by two frames and drew in the next step...

...Once done, she'd play the end result to see if it worked. If successful, she returned to the intermediate frames and drew them in

Finally, she would add colour and go over the black lines with the relevant background colour to produce an uneven and more hand-drawn effect



Lingford is currently working on the CD-ROM version of the best selling Griffin and Sabine trilogy being produced by Peter Gabriel's Real World multimedia company – unfortunately, the title won't be available on the Amiga on its release in Spring '96



A preview of the up-and-coming Death and The Mother, Lingford's Channel 4 funded animation is presently in pre-production. The visual style is based on German woodcuts of the early 20th century – note the lines left by the character's movement

Ruth Lingford: "With animation, you can make things do whatever you want. There are no restrictions."

Rimminen and son

Tucked away in a London terrace house on the top floor is an Amiga 4000 and Silicon Graphics side by side. The owner, Marjut Rimminen, has been producing animation for the last 20 years. An animation director by trade, computers have only just begun taking a very active role in her work. On board is her son Dan Arnall, a computer operator and animator whose expertise has also helped Jonathan Hodgson.

It was in 1974 that she had her first experience with a computer: "I was in London to shoot a commercial with Electronic Arts and became involved because the media was interesting and new. Unfortunately at that time, the whole computer operation was in the hands of the engineers not the creatives due to the inaccessibility of the hardware and software" commented Rimminen.

Subsequently, she didn't return to the computer scene for another 20 years. In the meantime, she continued with her commercial work and has had various animations shown on Channel 4. Her next foray into computers was the Amiga 500, owned by her son, which came with Deluxe Paint 3. So impressed with the standard possible, she quickly invested in a 4000 and a PARcard. The machine is currently being used on another Channel 4 Four Mations anim in conjunction with the Silicon Graphics. With the mock-up created on the Amiga already, the bulk of the final version is being produced on the SGI.

RISKY BUSINESS

While some Amiga owners maybe fuming at the thought, Rimminen is quick to point out that one of the reasons for bringing in the SGI was the cloud of doubt hanging over Commodore's future: "We had planned to go with Amigas solely, but with such an investment in something that was looking decidedly shaky it was just too much of a risk."

Indeed, she sings the Amiga's praises: "I've worked with Macs as well and it has lots of interesting programs but it's still not a great machine. If the Amiga was developed in the same way as the Mac – easy to use in other words – it would be ideal."

Star of the show though, yet again, is the PARcard. While shooting the live footage at hired studios, they used a Hi-8 video camera and stored each frame directly onto the card which was set up nearby. The Amiga has also helped her puppet skills as well – while shooting a particular scene, Rimminen needed to film a doll rolling out a handbag. Instead of the usual painstaking set-up required to perform such an animation feat, she simply held the doll in the relevant position for each frame and then took out her fingers using Brilliance in post production. "I find the system very tactile which is unusual for a computer... it enables me to use my puppet skills and help in the process" she commented.

While the SGI takes centre stage in this production, Rimminen is obviously a true enthusiast: "While at a show recently, I met dozens of animators all singing the praises of the machine. Even after all this time, there's a real community spirit for the Amiga. If Escom succeed, I think the future for the Amiga in the animation sector is excellent."

Many Happy Returns

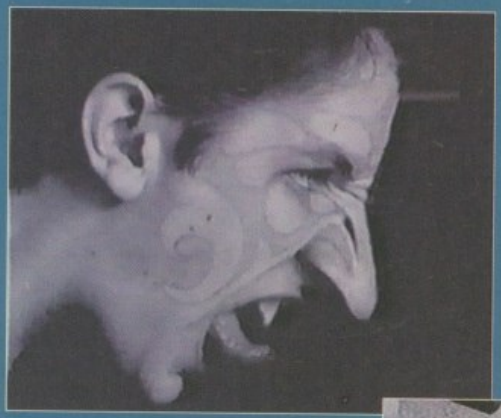
A theme-heavy animation portraying how the present is both formed from the past and the future – because of our experiences and hopes, there's no such thing as objective reality. The anim explores this with a mixture of computer and live action.

Dan Arnall and Marjut Rimminen: "I find the Amiga very tactile which is unusual for a computer... it enables me to use my puppet skills and help in the process."

Rimminen was placed on a spinning chair in this shot. The live action was then altered and turned into an animbrush. The palette was changed and the final image stencilled into the live action foreground with... Brilliance!

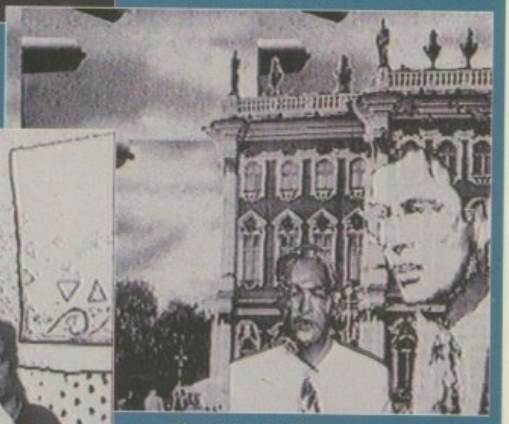
In this scene, the birds in the venetian blind take off and fly across the screen. Rimminen's face was put over the top as a 30 per cent transparency with Brilliance. The birds themselves started as dots mapping their flight plans and then were subsequently drawn in with Brilliance with a slight transparency.

Other work



Morph Plus was used to distort the face into a vamparic image. The tattoos on the face were sketched on with Brilliance by digital artist Jack Schulee

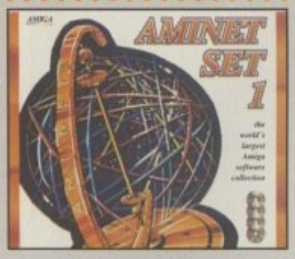
In the background, bombs can be seen dropping – this effect was achieved by simply shooting a book page on video while tilting the camera down. The Houses of Parliament were composited over the top and edges were blurred to seem lifelike. The broadcasters were taken from the video recorder and picked up as an animbrush and placed on top of the action



After using MultiFrame as a compositor and drawing an alpha channel for each live frame of the actor, the rest of the shot was image processed with the line art option using AdPro and Multiframe

Aminet 7

Aminet CD 7, dated August 1995, consist. of approximately 1,1 gigabytes of software in 3600 archives. Since the release of Aminet CD 6 more than 540 MB new software has appeared. The current edition has a special focus on images, more than 10000 images from Aminet were included. User friendly access software makes the Aminet CD 7 a pleasure to use. £14.95

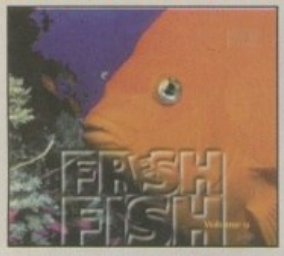


Aminet Set 1

Aminet is the world`s largest collection of freely distributable Amiga software. Up to 10.000 users access the vast archives erverry 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 10

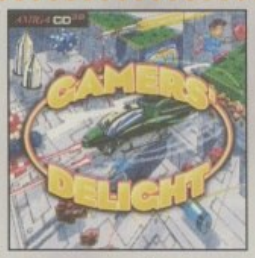
The FreshFish CD-ROM-series, produced directly by Fred Fish, provides Amiga users with hundreds of megabytes of the latest freely redistributable software. Published approximately every two months, each volume is a two CD set containing new submissions since the latest volume, as well as an ever growing 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 2

The LIGHT ROM 2 CD contains almost 650 megabytes of 3D objects, images, images equences, scene files, surface attributes, bump maps and textures in IFF and TARGA formats, DEMs, and Lightwave relo- ted 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

da capo

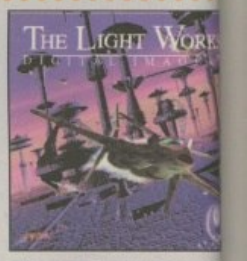
The da capo CD-ROM is a source for high-quality music, both for listening enjoyment and for samples to use in creating your own music. This is not just another random collection of modules. Many modules and samples are exclusively to da capo. Included are more than 1400 of the best available modules and 2000 high-quality samples. €27.95

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 netsurfing 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 V

The Meeting Pearls Volumé II contains 650 MB of the ware via a special user interface, which has been cre you to find the program of your choice with ease. The MB of selected html-pages - 50 MB graphics program MB games - 10 MB from "The Party '94" - 13 MB of CD-ROM and SCSI tools - 19 MB various other tools tional software - 25 MB terminal programs - 25 M mainly from Eric Schwarz - 40 MB developer tools (e.g compiler (DICE, Oberon, Modula), Commodore-Includ - 9 MB music programs - 10 MB midi programs - 27 M MB texts, FAQs, CD contents files, etc. - 40 MB linux fo MB TeX installation (PasTeX incl. 600 dpi and fax fo movie data base - 50 MB archives for Psion - 18 MB MB NetBSD for Amiga, ... £9.95



The Light Work

Raytracing - A fascinating area of the computer gra from the computer, perfectly rendered, fascinate peop world. The Amiga was the first computer to be used t and today it is still a leader, with many high quality pro artist of raytracing is Tobias J. Richter from Colog whose detailed-objects stun the people. Especially his famous science fiction films are used to demonstrate th of a raytracing program. The objects are highly extremly realistic due to the application of complex su of the models. Until now it was difficult to acquire th order to create ones own scenes or animations. £29.95

Texture Galler

Texture Gallery is a 2 CD-ROM set containing over 1 textures designed for graphic artists. Included are hund textures in several different formats, including: IFF, J PICT, SGI, and TIFF. These textures are perfect fo programs like LightWave 3D and can be used to crea All of the textures are represented in thumbnails read previewing. £44.95

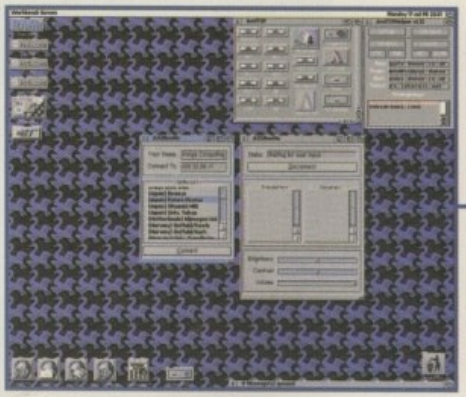
All products are available in your local Amiga-s
or through national mail-order-companies

International Distrib

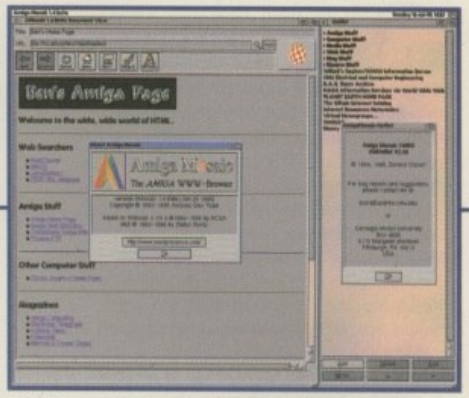
GTI
Grenville Trading Internationa
Zimmersmühlenweg 7
61440 Oberursel · Germa
Tel +49-6171-8593
Fax +49-6171-8302
EMail: Compuserve 100336

SCHATZTRUHE

CHIARI OFFICE - 1995



ACUSeeMe steadfastly refusing to connect to a reflector site



The latest versions of AMosaic and AMHotlist looking gorgeous and groovy on a 1024x768 screen

Net novelties

Ben Vost looks at the latest gizmos available for net users

At last! Amiga net surfers have a graphical world wide web browser that is capable of dealing with forms. AMosaic v1.4ß was launched onto an unsuspecting public in the early days of July and has a revamped GUI with a nice bouncing ball progress animation (much better than the pulsing radio button or the spinning clock hand) and Netscape-like gadgets for progress through the world wide web. Also included in this latest version is the ability to type into the URL address line, rather than having to open a requester and a built-in, hierarchically organised hotlist.

My overall impression is that this version is actually ever so slightly slower than AMosaic 1.3, but given its added benefits I'm willing to forego that extra speed. Funnily enough, given that AMosaic now includes a truly animated progress button, graphical navigation buttons and the ability to construct forms, the executable's size is actually less than that of its predecessor.

The way AMosaic now supports forms does seem slightly clunky, but I would imagine this is down to the way MUI and AmigaDOS work. What happens is that when you get to a URL that has a form, say the registration form for HotWired, The Electronic Telegraph or Yahoo, the AMosaic window disappears to be replaced by a little window telling you that AMosaic is constructing a form. The AMosaic window then reappears with the form in place, voilà!

When you leave a forms page, exactly the same thing happens. Scrolling within a forms page is a bit grinding, so some work obviously still needs to be done on that front. Another thing I miss from using Netscape at work all day is the MailTo: CGI script. This lets you click on someone's e-mail address on a home page and send them some mail, but I guess you can't have everything all at once.

Next up is a related bit of software, Berend Ozceri's AMHotlist. This now also supports the hierarchically arranged hotlist entries. You can create sub-menus and simply put your existing entries within those sub-menus by clicking on the 'move' button and then clicking where you want the entry. No more shuffling through an endless hotlist trying to find the page you want – stuff them all inside descriptively named sub-menus and all your cares simply fly away.

Well, perhaps not, but I do recommend using AMHotlist v2 instead of the hotlist in AMosaic itself because it is much nicer to use and can have a lot more entries visible at one time. Of course, if you are having to use AMosaic on a native Amiga screen, you might not have enough room to display them both and still have adequate room for the main AMosaic window.

VERSION UPGRADE

Lastly, there is a new version of the Amiga's sole videoconferencing tool available on the net. At the time of writing, ACUSeeMe was at version 2.01, but I know that version 2.02 at least will be available by the time you read this. CUSeeMe is a standard for Internet videoconferencing which gives you 'realtime' video and audio communications with another machine. This works great if you have a whole load of Unix boxes with cameras and mikes linked into an ATM network, but definitely leaves a little to be desired over a telephone line.

Because the Amiga doesn't have a camera or mike as easy system add-ons, ACUSeeme will probably only appeal to lurkers because you have no way of replying to anything that is said or done at the other end of the link. This version actually interprets the reflector list that it comes with so you no longer have to type the addresses of the reflectors into a text gadget, you can simply select them from a scrolling list.

Reflectors are sites that carry CUSeeMe traffic, be it solely audio or both audio and video, and behave somewhat like IRC servers in that they act as central gathering points for people to call into. ACUSeeMe is also written by the prolific Mr Ozceri who seems to have no end to his talents. AC

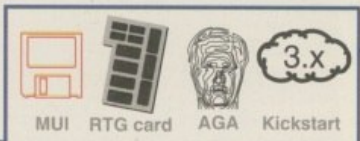
Don't forget the MUI

All three of the programs I have talked about require Magic User Interface – MUI – to work, which is why the screenshots always look so groovy, but is also responsible for slowing down the programs somewhat. Ever since AMosaic was launched, there has been a backlash against MUI slating its size and slowness. The programmers of AMosaic and Mr Ozceri retort that what they created would have taken much longer by normal means and certainly wouldn't look as good.

I have no problem whatsoever with MUI. It has rarely crashed my machine, certainly no more than any other program, and provides a very good-looking interface for the numerous programs on my machine that require it. With *Amiga Computing* having given a registered version away with the July issue, there should no longer be any complaints about users having to pay to use it, so perhaps people should give MUI a break.

SYSTEM ESSENTIALS

RED = Essential **BLACK** = Recommended



The bottom line

AMHotList2_00.lha 16k
ftp://src.doc.ic.ac.uk/aminet/comm/net

acuseeme2_01.lha 64k
ftp://src.doc.ic.ac.uk/aminet/comm/tcp

AMosaic14beta_AmiTcp.lha 146k
http://www.omnipresence.com/amosaic/

Not so long ago, the Amiga games market was awash with high-quality, innovative titles that sold in abundance. But after the collapse of Commodore, software companies unsurprisingly became very cautious when it came to releasing Amiga games. Some, after years of supporting the machine, were only too ready to abandon it and desert to the PC camp, others took a toe-dipping policy, releasing a couple of titles or even worse – second-rate PC port-overs while many titles were 'put on hold.'

But now, the latest news from Escom is that the Amiga is going back into production and an A1200 is promised for September. But with a higher than expected RRP announced at £399, a lot of people are going to take a fair amount of convincing that developing for the Amiga is once again going to be a viable option.

And, not only have Escom got their work cut out for them in this respect, but the vicious circle of developers not making the games until retailers stock them, and retailers not making shelf space available until they see widespread commitment, must be broken.

GENERAL CONSENSUS

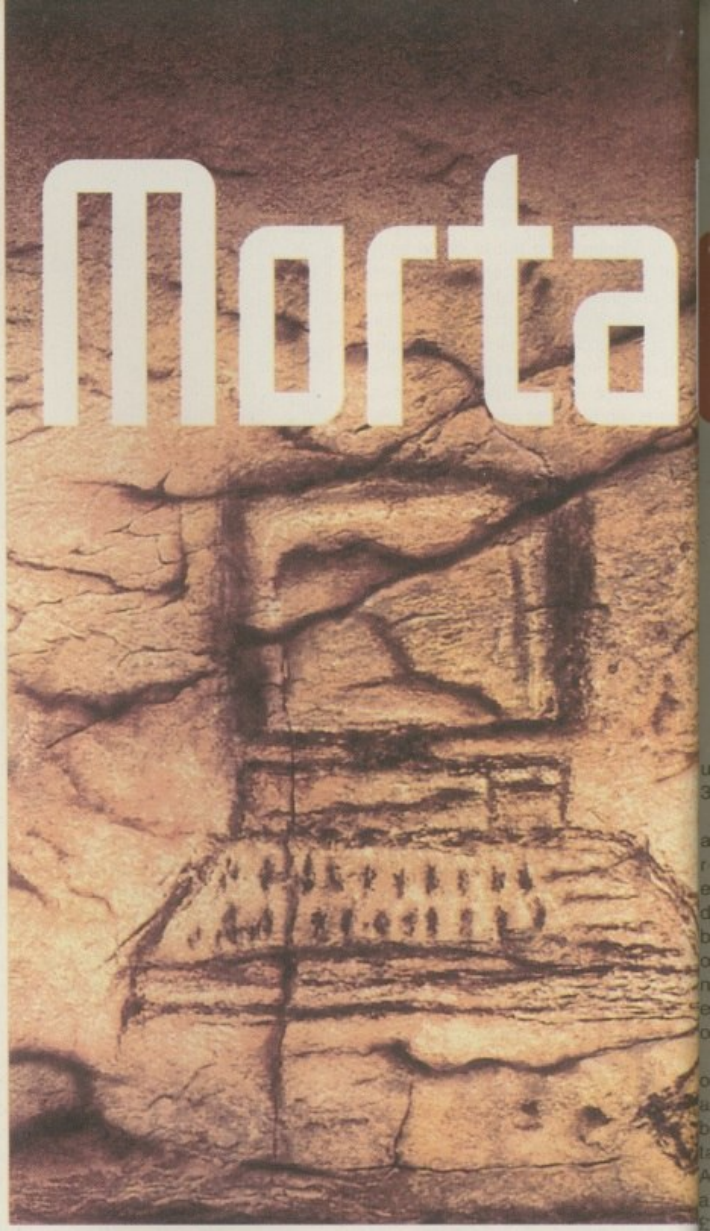
Amiga Computing talked to key industry sources to get the general opinion about the future of the Amiga games market and what they'd like to see from Amiga Technologies.

The Amiga has always been the cheap, yet quality home computer that not only could you buy the latest games for, but you could also create music on, compile a database and write a letter. The PC has always been priced over three times as much as the Amiga. The consoles, while available for the same price, were merely toys that could do no more than play games. But after a year off the market has it still got what it takes?

As it stands, the Amiga still has many strengths which the supportive software developers are only too keen to point out. A strong and loyal user base already exists and Escom need to cultivate this. As Chris Warrender from Grandslam points out: "Escom must listen to the users, both past and present, and give them what they want in relation to the machine rather than telling them what they need. They have a ready-made installed base to start from – they should not ignore these users, but should foster the relationship between user and developer and this base will, undoubtedly increase."

Amiga users have proved themselves extremely loyal, especially with a generation who have grown up the machine. Marcus Dyson, he Multimedia at Team 17 states: great thing about the Amiga was t taught a whole generation of ga players the fun of graphics, music ing and coding." Dyson also poi the Amiga being a user-frie machine that is easy, even fo novice to use.

"The Amiga comes out of a box is ready to run in seconds. No tires and troublesome sound cards, gra accelerators, I/O cards and mouse vers to install. And Workbench 3 i superior to Windows '95, which is being steeped in praise becaus



Tech spec

There has been a lot of speculation about what the new Amigas will be like and the price at which they will retail. Incidentally, the interviews were conducted before Escom announced the price of the new A1200, and at £399, it's a lot more than everyone was hoping for.

Marcus Dyson, Team 17: "A1200 with an 030, 4Mb RAM (2 fast, 2chip) and a 120Mb hard drive for £299. This may sound a little unrealistic, but PC's are now so well specified and so cheap that Amiga has to really offer good value for money."

Andy Jolly, Binary Emotions: "The A1200 has to be around the £200 price range."

Michael Crook, Guildhall: "If the A1200 can re-enter the market at £349.99 or less they will immediately grab a healthy chunk of consumer spend this Christmas."

Simon Reynolds, Inter-mediates: "I would like to see a cheap (sub-£200) A1200 in the marketplace, to kickstart interest in the Amiga."

AMIGA

Amiga Technologies their work cut for them again all the tough competition

combat

There is a worrying trend in the Amiga games market with fewer titles being released. Tina Hackett investigates whether anything has changed now Escom have unveiled their plans

users have had to tolerate Windows 3.1 for so long."

Vulcan Software's Lisa Tunnah agrees: "The PC has a habit of doing really scary things when you least expect it, whereas the Amiga sits there displaying a very friendly looking workbench environment. Running software on the Amiga is so easy, whereas you need a degree in computer science just to install Windows on your average PC."

The Amiga has many other positive factors and having a good budget market certainly helps matters. As well as those available for around £10, the full price titles are also competitively priced. With cartridges and PC CD-ROM titles still costing around the £40 mark, and with full priced Amiga titles averaging around £25, the Amiga will still provide value for money on that score. A triple A title on the Amiga can still sell in abundance, and some developers are ready to point the finger at some of the bad-quality games being released that are giving the machine a bad name. Jolly believes: "I think Amiga owners are fed up with paying out for poor quality software and are only willing to buy quality. For instance, Skidmarks 2 sold twice the number of the top console games in its first month."

Dyson: "Any company developing for the Amiga but isn't doing CD32 stuff is out of its mind"

However, distribution always plays a crucial part and if the retailers aren't convinced, then the software companies' hard work will go down the drain. Vulcan Software have found a way around this by distributing their games themselves through mail order. "We have decided to distribute our own products for several reasons. One is the declining confidence in Amiga products at wholesale and retail level. Vulcan couldn't change this sad fact so we simply adapted."

Neil Boote, Head of Non-Music Product at Virgin Our Price, defended the retailers by saying: "Virgin Retail is committed to all games formats and as such, we stock Amiga products in the Megastores. Amiga was a very strong format three years ago and recently had a very successful Christmas in 1994. Demand has diminished since then, and as such we are keeping a close eye on the Amiga market and any developments that might affect it. We are aware that the Amiga still has over 1.5 million machines in UK households, and any decision we make will take this into consideration."

Binary Emotions, developers of Speris Legacy, believe that Amiga owners are fed up of buying poor-quality software

Simon Reynolds for Special Reserve is rather more pessimistic: "The demand for Amiga products is dwindling down to the fact that there has been no new hardware sales for a year, and after a year out of the market, and with the Saturn and Playstation looming, Escom are going to have to do something really special to succeed."

This time factor is also seen as a major problem that Escom will have to overcome. A year out of the market is a long time and in its absence the PC has taken the major foothold in the home computer market. Simon Jeffery, Vice President of Marketing at Virgin Interactive states: "Those who require a future-proof computer for education and a bit of gaming will be driven towards a DOS-based PC. Intel and Microsoft have increased the profile of the PC to the non-hobbyist consumer to the extent that people equate the term computing with the names of those two companies. This delimits the Amiga to the hobbyist and design sectors, plus niche areas like video. So pricing has to be extremely aggressive."

After a meeting with Escom, Virgin Interactive will continue to develop for the Amiga

The Amiga is also limited by being mainly a European platform – the Superconsoles will be international: "Their problem will be that the other platforms are truly international whereas the Amiga will be very much a British/European platform," said Michael Crook of Guildhall. Jeffery believes, too, that the Amiga will never be seen as a serious business machine: "DOS and Windows-based applications rule this area. Sixty million PCs will be sold this year – and ➤

Will other platforms prove too much competition for the Amiga?

that's conservative. Sadly, I can't envisage the day when Microsoft publishes Amiga-specific apps." He finishes: "The Amiga is a wonderful hobbyist machine. To pretend it's anything more will be its downfall."

Apart from the hardware not being on the shelves for a year, the Amiga has also faced other problems. Piracy is cited as one factors that has led to the situation. One way around this would be to increase the amount of development on CD format. As Dyson puts it: "Any company that is developing for the Amiga but isn't doing CD32 stuff is out of its mind. Because CD piracy is still (relatively) uncommon, Amiga CD software sells in larger amounts than the CD32's marketshare would suggest. More Amiga owners are getting CD-ROM drives and if companies will release enhanced CD software, I'm convinced they will see that effort rewarded with sales.

"Personally, with faster loading times, less disk swaps and no need to take up hard drive space with full installs, I'd rather see all software issued on CD only."

ENHANCING

However, the CD32 in its current form is another bone of contention. Most games available for the CD32 have been port-overs from the Amiga with little or no enhancements, and the general feeling seems to be that the machine needs vastly enhancing and CD-specific titles need to be developed – especially with the imminent arrival of the Sony Playstation. Jolly backs this up: "We think that the CD32 in its present design will have a hard time if it goes back into production – unless Escom intend to focus it on a different market, i.e. a set-top box. They must produce an upgraded CD32, re-styled and renamed would be a good move, complete with a tight development schedule."

What software developers would actually like to see on the Amiga itself is wide and varied, but most seem to be in agreement that they'd like to see increased specs. Warrender replies: "I would like to see high-capacity hard drives, built-in CD-ROM, cross platform compatibility, a new high resolution monitor to coincide with a higher standard video output, a portable version, and a newly designed Amiga mouse!"

Binary Emotions' Andy Jolly adds to this: "I'd like to see 2Mb FastRAM, new 32-bit blitter, fast 3D chip for polygons and texture mapping, 68030 25MHz base processor, sound improvement, and multi-player facilities."

Another possibility that some would have liked to have seen is the new Amiga put together as a complete package, much like how the PC is sold. Tunnah states: "The Amiga would benefit from 6Mb of RAM as standard, with an accelerator, CD-ROM and a large hard drive accompanied with a monitor. This would provide the end user with a state-of-the-art machine which could run the most sophisticated software."

As with all new machines, in-house development is very important, and unless Escom have some softwa... teams in-house then it could be ve... damaging for the future of the Amig... Jolly stresses this: "You simply can... rely on third-party development, may... in the '80s it was possible but in the... days of intense competition you have... be crazy not to release exclus... in-house titles."

Taking all these points into accou... Escom have a tough job on their han... and only time will tell if the Amiga c... be born again. What is for sure, thou... is that no-one wants to see the Am... go, and for a machine that has been... the market for a year there's sti... faithful following. And as Vulcan's L... Tunnah summarises: "They [Am... users] are loyal people and deser... only the best."

Team 17 are still developing for the Amiga because they are all huge Amiga fans

Super Skidmarks proved that quality titles will still sell well

Vulcan Software have made the decision to distribute their own products through mail order

> there has been no new hardware sales for a year, and after a year out of the market, and with the Saturn and Playstation looming, Escom are going to have to do something really special to succeed

In the pipeline

We take a look at what the software companies have in store now that Escom have revealed their plans.

Vulcan: "Our policy is to continue to develop for the Amiga regardless of Escom's plans. We sincerely believe there is a strong user base out there." **In development**: 'The Mini Series'.

Grandslam: "Our policy on the development for the Amiga has only been strengthened with the Escom news. We have always been an active supporter of the Commodore range since the early machines, and will continue to develop titles as long as Amiga users are still out there to buy them." **In development**: Basejumpers CD32, International Test Series Cricket, Gamer Gold, Ruffian, 7th Sword of Mendor

Virgin Interactive: "We had an important meeting with Escom recently, discussing our future Amiga development plans. Escom have certainly assured us of a future for the Amiga, so appro... priate projects at VIE will continue." I... **development**: Sensible Golf, CD3... titles and Renegade's Z.

Binary Emotions: "Our plans hav... always involved the Amiga simpl... because it's such an easy platform t... develop for, so Escom's buyout ha... enhanced matters." **In development**: Minskies Furr Balls, Nemesi... Syndrome, Speris Legacy 2

Team 17: "Escom's plans haven't re... lly affected Team 17's attitude to th... Amiga yet. They haven't approache... us directly, we have had to approac... them. This was always a problem wi... Commodore, who really had quite ... shoddy attitude towards developers... We are still developing for the Amig... mainly because we owe much of o... success to the machine and becaus... many people here are huge Amig... fans rather than it being a particular... profitable market at present." **In deve... opment**: Speris Legacy, Final Ov... Alien Breed 3D, Worms

'060 SPEED FOR YOUR A1200/1500/2000 and A3000‡/4000 TODAY!

CYBERVISION 64

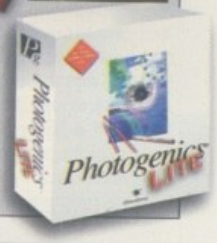
LIMITED OFFER
FREE PHOTOGENICS LITE SOFTWARE WITH CYBERVISION 64s FOR A LIMITED TIME!

64-BIT ENGINE A3000/4000 24-BIT COLOUR ACCELERATED GRAPHICS CARD.
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)

Cybervision 64... 2Mb - £329.95 4Mb - £439.95

Request your FREE Technical Brochure

FREE PhotoGenics LITE...Powerful software for image manipulation - the ULTIMATE 24-bit graphics package for A3000 or A4000! Includes 27 effects for processing photo images such as Emboss, Solarize, Texturize, Add Noise etc. as well as Paint Tools inc. Chalk Pastels, Crayon, Felt Tips & more - Brilliant! (Packaging is shown for illustration purposes only and is not included)



THE PERFORMANCE ADVANTAGES OF OUR BOARDS ARE SUPERSONIC!

COMPARE THE SPEED GAINS YOU'LL GET!

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

THE WORLD'S FASTEST... NO QUESTION!

CYBERSTORM

- Up to 128Mb of standard SIMMs can be installed and you can even transfer the 72Pin SIMMs from your A4000 straight onto Cyberstorm.
- Options include a SCSI-2 only module, or a SCSI-2 and combined Ethernet expansion module. *Request your FREE Technical Brochure*

The World's Fastest Amiga!
CYBERSTORM - THE FIRST and ONLY **68060** ACCELERATOR FOR THE A4000 (*Ask for details about A4000 compatibility too‡*).
When Cyberstorm, a 50MHz 68060 board, renders a test graphic with Imagine 2.0 software, the processing time is FAST... Just 2.45 minutes - Compare this with 10.34 mins on a standard A4000 040/25!

Cyberstorm 68060/50
50MHz 68060, 0Mb (Exp. to 128Mb)
£PHONE!

BLIZZARD 1220/4

28MHz 68EC020 A1200 TURBO 4Mb, 32-Bit RAM Expandable to 8Mb

Multi award-winning BLIZZARD 1220/4 4Mb TURBO...
Offers by far the best price/performance ratio of any A1200 32-Bit RAM expansion on the market incorporating everything a good memory expansion should - such as a Real Time Clock, RAM expandability, optional FPU etc. And, with its Motorola Processor running the 32-Bit FAST RAM at an amazing 28MHz, the 1220/4 has broken all the barriers! Check the facts for yourself and fit the BEST Amiga A1200 Turbo Memory board.

Request your FREE Technical Brochure

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

1220/4 Turbo 28MHz 68EC020 4Mb 32-Bit Fast RAM, expandable to 8Mb	£199.95
Add-4 Board - extra 4Mb for 1220/4 4Mb 32-Bit Fast RAM add-on	£169.95
Motorola Maths Co-processors 68882 PLCC type FPU, 25/33MHz	£Call

THE AWARD WINNING A1200 RAM EXPANSION!

1st Place Amiga Shopper Dealer Awards

Amiga Shopper said "in short if you want the fastest Amiga in the World, you have no option." Amiga Computing "...Amigas can now do anything Pentiums can" Amiga Format "...buy one as soon as you get chance" - 95% rating

BLIZZARD 1230-IV

NEW... 50MHz 68030 A1200 TURBO ACCELERATOR - 0Mb Expandable to 128Mb

THE highest performing A1200 68030 Accelerator!
The NEW 1230-IV is the successor to the market leading 1230-III board. Not only has there been an INCREASE in specification, but at the same time, a DECREASE IN PRICE! With its 50MHz 68030 and MMU, the new 1230-IV offers EVEN MORE for LESS! Up to 500% performance gain is achieved and options via its Fast Expansion Bus include Modules such as a SCSI-2 Controller. A standard SIMM socket provides for up to 128Mb auto-configuring 32-Bit FAST RAM (or 256Mb with SCSI-2 option).

- Easy Trapdoor Installation
- Battery Backed Self Recharge RT Clock/Calendar
- High performance DMA expansion with full 32-Bit wide DMA
- 68030 may be disabled with a simple keystroke on boot up allowing full games compatibility - even badly programmed, older software!
- PGA FPU Socket allowing optional 50MHz, 68882 FPU

1230-IV Turbo[1] 50MHz 68030 & MMU 0Mb 32-Bit Fast RAM, Expandable to 32Mb	£199.95
SCSI-2 Module[1] for 1230-IV Turbo (with additional 128Mb SIMM socket)	£89.95
Motorola Maths Co-processors 68882 PGA type FPU, 50MHz	£79.95
4Mb SIMM RAM Expansion 32-Bit, 72 pin *(Call for Larger SIMMs prices)*	£134.95

THE WORLD's FASTEST A1200 '030 ACCELERATOR!

Blizzard and Cyber products have lead the way for Amiga add on boards, extending performance for the home and business user alike. They've consistently achieved the highest magazine accolades & awards! Not surprising then, that for the introduction of the World's FIRST series of '060 technology add in boards available for YOUR Amiga, Blizzard and Cyber are again the name to innovate!
A new range for A1200/1500/2000/3000‡ & 4000 Amigas look set to earn even further recognition.

[1]*Available 3rd Quarter '95* [2]*Available 4th Quarter '95*

BLIZZARD 1260

NEW... 50MHz 68060 A1200 TURBO ACCELERATOR - 0Mb Expandable to 64Mb

The '060 revolution is here NOW for YOUR A1200!
The NEW Blizzard 1260 Accelerator gives you the World's fastest A1200! With its 50MHz **68060** and MMU, the new 1260 offers unsurpassed performance 4 to 5 times faster than an Amiga A4000/040! Options via its Fast Expansion Bus include Modules such as a SCSI-2 Controller. A standard SIMM socket provides for up to 64Mb auto-configuring 32-Bit FAST RAM (or 192Mb when utilising the SCSI-2 option).

- Easy Trapdoor Installation
- Battery Backed Self Recharge RT Clock/Calendar
- High performance DMA expansion with full 32-Bit wide DMA
- 68060 may be disabled with a simple keystroke on boot up allowing full games compatibility - even badly programmed, older software!

1260 Turbo[1] 50MHz 68060 & MMU 0Mb 32-Bit Fast RAM, Expandable to 64Mb	£599.95
SCSI-2 Module[2] for 1260 Turbo (with additional 128Mb SIMM socket)	£99.95

BLIZZARD 2060

50MHz 68060 A1500/2000 TURBO ACCELERATOR - 0Mb Expandable to 128Mb

The '060 revolution is here for YOUR A1500/2000 too!
The NEW Blizzard 2060 offers the same features/performance as the 1260 to the AMIGA 1500 and 2000 user, whilst allowing up to 128Mb RAM

2060 Turbo[2] 50MHz 68060 & MMU 0Mb 32-Bit Fast RAM, Expandable to 128Mb	£699.95

All Blizzard and Cyber products use brand new MOTOROLA 68030 series processors (not second hand as in some of our competitors boards!) They always run **WITHIN** the electrical timing specification laid down by Motorola to prevent any possible overheating/reliability problems. When you pay for a new 50MHz CPU for example, that's exactly what you get - not a 40, 33 or even a 25MHz CPU "clocked" to 50MHz! Look out for the **MOTOROLA MOTIVATED** logo - your guarantee of our commitment to quality and reliability - **BEWARE** of "clocked" CPUs!

gordon harwood computers
the UK's favourite Amiga Dealer

GORDON HARWOOD COMPUTERS LIMITED
Dept: ACO/B4 NEW STREET, ALFRETON, DERBYSHIRE. DE55 7BP

Tel: 01 773 836781
Fax: 01 773 831040

"Why not pay a visit to our Showroom where our Amiga products are on display".
OUR OPENING TIMES ARE... Mon-Sat, 9am until 5pm

BY PHONE: Simply call our order line. We accept Visa, Mastercard, Access, Switch, Connect, Delta and Lombard Creditcharge (most 'store cards' are Lombard eg. Dixons, Currys etc).

BY POST or FAX: Include your name, address and daytime phone number plus order details. If charging a credit/debit card include... number and expiry date (also issue number with Switch cards). Make Cheques (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.

DELIVERY: We ship promptly and 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.

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

Safe as houses

Nik Lines looks at a fast new filing system

Exciting! Interesting! Two words that really can't be used to describe filing systems on the Amiga. However, Fourth Level Developments have now released AmiFileSafe with the proud claim that it's the *new* de facto standard for the Amiga.

First off, a brief explanation of what a file system is: It's a bit of software that sits in the system and maps files onto a disk or suitable medium, servicing requests for data. The Amiga has used FastFileSystem for the past few years but this has its faults, including speed and fault tolerance.

If you reset your Amiga while writing to a disk you'll know about it when you boot again – the disk thrashes around trying to re-validate itself. The bad news is that occasionally it can't sort itself out, at which point it's time to start praying that some extra utility can recover your files. This can take an inordinate amount of time and still fail.

AmiFileSafe's main claims are to never become invalidated and also to be nippier, which does sound too good to be true. The first hurdle I suspected was that installation would be a pain, but thankfully the manual is excellent so people who have no experience of this sort of thing will be fine. You'll need HDToolBox to follow the manual's instructions but RDPrep can be used to do the same job – one should have been supplied with your system. Due to the nature of the product, your disks need to be reformatted after installing the new filesystem onto them, but you'll already have a recent backup of your data, won't you?

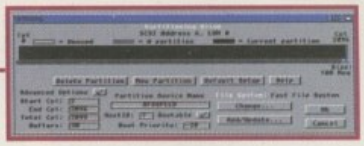
STILL WORKING

Once in place and with data reinstalled, I was glad to see that everything still worked and that my machine definitely booted faster. AFS's claim of improved parallel access certainly seems to be founded and the seemingly endless thrashing when ToolManager and EGS battled for bandwidth has pretty much become negligible.

Time for the reliability tests – close eyes, copy large file and reset half way through. No troubles with invalidation. Group delete files and reset? Nowt wrong. Okay, time for the biggie. Unplug the SCSI cable while writing data and up pops a requester saying Write Error. Cancel that a few times. Aha! Gotcha! Replug the SCSI cable and the light starts flickering again. After a second or two, my 3Mb file has been copied and the disk is valid. No data had been lost! Unbelievable, and a possible scenario for those with an external disk farm.

On the data security side of things, I reckon it's safe to say that this is exceptionally good, but maybe the real word to describe it is bulletproof.

Over to speed now, AmiFileSafe's other big claim. 'Instant Directory Listings' claims the cover of the manual. Maybe I'm just cynical, but I think I've heard this sort of thing too many times before so I was expecting disappointment. I was wrong; instant is the word to use. The first indication of this was when I typed 'list' and found that my graphics card was the bottleneck in displaying the data, despite the fact that it's a Zorro III 64-bit card! Benchmarking with DiskSpeed reveals that even on my humble A3000, 1837 directory entries are being thrown at the system per second. Good old FFS manages a stunning 198. FFS with directory cacheing manages 1421 but at the expense of data transfer speed.



Transfer speed is up on FFS too, whatever size file is being tested. On small buffers the write speed is up by a factor of five, yet the CPU availability is still at 44 per cent. Larger buffer sizes manage to return an increase in speed along with an increase in CPU availability, too! Suffice to say, AFS is significantly faster than FFS on paper.

The greatest difference, however, is seen in everyday use as FFS disks just keep on getting slower, whereas AFS keeps up its speed well. This supports the explanation in the manual that fragmentation is kept to an absolute minimum. Icons fly up all the time, not just on small, empty disks.

The only benchmark parameter that falls below FFS for AFS is a seek/read parameter which is around ten times slower than FFS. If this was relevant, I would have expected it to manifest itself in copying many small files (such as ENVARC: to RAM), but this operation is faster under AFS, reducing from taking three seconds with FFS to one and a half seconds with AFS. Perhaps it was just a spurious result or a parameter that really doesn't make much difference?

Testing directory manipulation speed		
File Create	116 files/sec	CPU Available: 9%
File Open	86 files/sec	CPU Available: 29%
Directory Scan	198 files/sec	CPU Available: 33%
File Delete	344 files/sec	CPU Available: 16%
Seek/Read	810 seeks/sec	CPU Available: 12%
Testing with a 262144 byte buffer. (LONG-aligned, MEMF_FAST)		
Create file	605928 bytes/sec	CPU Available: 83%
Write to file	863157 bytes/sec	CPU Available: 89%
Read from file	906176 bytes/sec	CPU Available: 88%
Average CPU Available: 55%		CPU Availability index: 754

Testing an FFS: device on a Workbench 3, 68030-based machine

Testing directory manipulation speed		
File Create	163 files/sec	CPU Available: 2%
File Open	283 files/sec	CPU Available: 0%
Directory Scan	1741 files/sec	CPU Available: 0%
File Delete	270 files/sec	CPU Available: 0%
Seek/Read	51 seeks/sec	CPU Available: 74%
Testing with a 262144 byte buffer. (LONG-aligned, MEMF_FAST)		
Create file	970903 bytes/sec	CPU Available: 84%
Write to file	1178647 bytes/sec	CPU Available: 89%
Read from file	1194950 bytes/sec	CPU Available: 89%
Average CPU Available: 52%		CPU Availability index: 714

Testing the AFS: device on a Workbench 3, 68030-based machine

MISSING FEATURES

At the moment, MultiUser users will not be able to fully work with AFS, but a free upgrade is promised to version 2.1 which will support this. The only other missing feature (which the manual draws your attention to instead of trying to hide) is that there is no 'undelete' feature, but this is promised in version 2.2 (released this month and free to registered users of 2.1).

This is an excellent product. I love the speed, reliability and complete transparency of it. As yet unmentioned is the fact that there's a floppy version and an optimised version for machines with an 020 or better. The floppy results are stunning (1800 directory entries a second compared to 37 with FFS-DC), but most will be interested in hard drive speed.

And now to the price. Seventy pounds may seem steep, but it's a small price to pay for pretty much guaranteed security. New Amigas need this reliability if they are to stand a chance in the commercial world. Are you listening Escom?

SYSTEM ESSENTIALS

RED = Essential **BLACK** = Recommended

2.04 Kickstart

The bottom line

Ease of use	8
Implementation	10
Value for money	8
Overall	9

White Knight Technology

THE PROFESSIONAL AMIGA SPECIALISTS

WITH THE REPUTATION FOR EXCELLENT SERVICE

PO BOX 38, WARE, HERTS, SG11 1TX

01920-822321

9.30am - 6pm Monday - Friday

FAX 01920 822302

VISA

2.5% Surcharge On Credit Cards. NOT SWITCH or VISA-DELTA

E&OE 03/08/95

OUR PRICES INCLUDE VAT

Except Where Otherwise Stated

NON-LINEAR EDITING With The BROADCASTER ELITE

This Zorro III card for the Amiga 4000 performs the major functions of a **Broadcast Quality, On-Line, Non-Linear, Digital** Video edit suite (CCIR601 720 x 576 PAL 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 supplied breakout box has YUV, Y/C and Composite in and out, and uses three seperate digitisers for each component of the YUV signal - it does not transcode from Y/C like some other systems. The board has full LTC and VITC timecoding. It also interfaces with the AD516 Studio 16 and other 16-Bit audio cards for simultaneous audio and video editing. It requires an Amiga 4000 with full 68040/060 processor, large SCSI-2 hard drives, and fast SCSI-II controller.

Complete Systems From £ 9,999 plus VAT

Typical System :-

Amiga 4000-030 (2 +8Mb,0.5Gb HD)
Broadcaster Elite with Producer 2.0 Software
Cyberstorm 060 with SCSI-II Controller
4.2Gb Fast SCSI-2 HD (For Video)
1.0Gb Fast SCSI-2 HD (For Audio)
Sunrize AD516 with Studio 16
Full Size 7 Slot Tower Case
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 prepaid telephone support. Technical support is available at an additional charge for purchasers of individual Broadcaster Elite 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

Voted "Best Workstation" by Digital News & Review. Lightwave Pro magazine recently said "and the winner is ... DEC Alpha 275MHz", when comparing value and performance of the ShaBLAMM, Raptor & SGI Indy.

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), Twin speed CDROM, Ethernet Card, Remote System Diagnostics and Windows NT.

All systems covered by 2 year return to base warranty (parts & labour). On-Site maintenance also available.

Typical System Cost is £ 7,995 + VAT

REAL 3D (V3) for Alpine £1125 + VAT
LIGHTWAVE 3D (V4) for Alpine £ 637 + VAT

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 3000, 40MHz 040, 34Mb	43m 19s
Alpine 275MHz ALPHA, 64Mb	6m 35s

CALL US FOR DETAILED SPECIFICATIONS, PERFORMANCE TABLES AND PRICES, OR TO ARRANGE A FULL DEMONSTRATION.

A4000 ACCELERATION

CYBERSTORM 50MHz 68060

NOW Only £ 849

Full Specification Sheet Available

White Knight Are The The Largest U.K. Distributor Of Cyberstorm 060's

Fast SCSI-II Controller £ 179

I/O Module SCSI-II, Ethernet & Serial port £ 399

NOW SHIPPING - ORDER YOURS TODAY

Prices Subject To Exchange Rate Fluctuations

ANIMATION TOOLS

VLab Motion Near S-VHS JPEG record & Playback Video + 24Bit Animation. £ 999

VLab Y/C Real-time digitiser card £ 349

PAR Personal Animation Recorder Output 24-BitRendered Animations To Video - at upto Broadcast Quality £1849

PAR Optional Video Capture card £ 999

OTHER PRODUCTS

CYBERVISION 64
HARD DRIVES
ZIP DRIVE
32-Bit SIMMS
ETHERNET
ACCELERATORS
GENLOCKS
LIGHTWAVE 3D
PICASSO II
EMPLANT
MONITORS
TOWER CASES
CPU's & FPU's
TAPE BACKUP

Call For Specifications, Prices & Availibility

AMIGA 4000T From Amiga Technologies

A4000T-040 25MHz 040 CPU With 6Mb RAM & 1.2Gb Fast SCSI-2 Hard Drive £ 2229

A4000T-060 50MHz 060 CPU Other Specs as 040 £ 2525

040 Shipping 8th Sept 95

Place Your Order Now

PROFESSIONAL SERVICES

Rendering Animation Frames
Using DEC Alpha, 060 & 040
Transfer Frames To Video
Beta SP, S-VHS & VHS
Video Sequence Capture
Data Translation
Picture File Conversion
Standards Conversion (VHS)
3 Machine S-VHS Editing
Broadcast Non-Linear Editing

Please Telephone For Further Details About These Services

DELIVERY CHARGES

Express From £ 6

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.

Premier Mail Order

Please Send Cheques/PO's (made out to Premier Mail Order) or Access/Visa/(Switch + Issue No) & Expiry Date to:
Dept: AC10 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 y
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 i
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&O

	500	1200	CD
1 Day Cricket	16.99	----	----
4th & Inches	8.99	----	----
688 Sub Attack	10.99	----	----
A10 Tank Killer	12.99	----	----
ACID BLITZ COMPILER	**29.99**	----	----
Addams Family	8.99	----	----
Adventures of Robin Hood	12.99	----	----
Air Bucks 1.2	12.99	12.99	----
Akira	18.99	----	19.99
Afterburner	6.99	----	----
Aladdin	----	19.99	----
Alien Breed 3D	**----**	**19.99**	**19.99**
Alien Olympics	19.99	----	19.99
All Terrain Racer	17.99	19.99	19.99
Altered Beast	6.99	----	----
Amazon Queen	19.99	----	----
Andre Agassi Tennis	19.99	19.99	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	----	----
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	----	13.99
Battlechess	----	----	19.99
Battle Isle '93	17.99	----	----
Battlehawks 1942	12.99	----	----
BEAU JOLLY COMPILATION	**22.99**	----	----
Behind The Iron Gate	16.99	----	----
Benefactor	17.99	----	17.99
Big Sea	19.99	----	----
Birds of Prey	12.99	----	----
Black Crypt	10.99	----	----
Blastar	17.99	----	----
Bloodnet	A500+	19.99	26.99
Blitz Tennis	19.99	----	----
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 Paws of Fury	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
Bureau 13	----	19.99	----
Burning Rubber	16.99	17.99	----
BURNTIME	**17.99**	**17.99**	**----**
Campaign 2	12.99	----	----
Cabal	6.99	----	----
Cardaver/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	----	----
Champ Manager 2	16.99	----	----
Championship Manager End Of Season	----	11.99	----
Championship Manager Italia 95	16.99	----	----
Championship Manager Compendium	17.99	----	----
Chuck Rock 1 & 2	----	----	17.99
Civilisation	----	----	13.99
Classic Board Games	8.99	----	----
CLASSIC COLL - DELPHINE	**16.99**	**----**	**----**
CLASSIC COLL - LUCAS ARTS	**19.99**	**----**	**----**
Club Football	19.99	19.99	----
COALA	**----**	**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	----	----
Core A1200 Bundle	----	19.99	----
Core CD32 Bundle 1	----	----	22.99
Core CD32 Bundle 2	----	----	16.99
Cosmic Spacehead	17.99	----	----
Covergirl Poker	12.99	----	----
Craft for AMOS	17.99	----	----
Crash Dummies	17.99	----	----
Cruise For A Corpse	12.99	----	----
Curse of Enchantia	12.99	----	----
Cybercon 3	10.99	----	----
Cyberspace	22.99	----	----
Cyberworlds	12.99	----	17.99
D Generation	12.99	----	----
D Thompson's Olympic Chall	6.99	----	----
DARK SEED	**12.99**	**----**	**19.99**
Dawn Patrol	22.99	22.99	----
Deluxe Paint V	59.99	----	----
Detroit	22.99	22.99	----
Demonsmisc	17.99	----	----
Desert Strike	12.99	----	----
Disposable Hero	7.99	----	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	----	----
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	**A500+**	**19.99**	**----**
F15 Strike Eagle 2	12.99	----	----
F17 Challenge	10.99	----	----
F19 Stealth Fighter	11.99	----	----
F117A Stealthfighter	12.99	----	----
F29	10.99	----	----
Fantasy Manager	19.99	----	----
FEARS	**----**	**19.99**	**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	----	----
F Sim 2 Japan Scenery	13.99	----	----
F Sim 2 Hawaiian Scenery	13.99	----	----
Flink	----	----	17.99
Football Glory	17.99	17.99	----
FOOTBALL GLORY INDOORS	**17.99**	**17.99**	**----**
Future Wars	10.99	----	----
Gamer Gold Collection	----	----	19.99
Global Effect	----	----	8.99
Globdule	10.99	----	----
GLOOM	**----**	**19.99**	**19.99**
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	----	----
G Gooch - Battle for the Ashes	8.99	----	----

	500	1200	CD
GROLIERS ENCYCLOPEDIA	----	----	**22.99**
Grand Prix Circuit	8.99	----	----
Guardian	----	9.99	9.99
GUINNESS DISC OF RECORDS	----	----	**16.99**
Gunboat	10.99	----	----
Gunship	10.99	----	----
GUNSHIP 2000	**12.99**	**24.99**	**22.99**
Hanna 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 SEAS TRADER	**----**	**22.99**	**----**
History Line 1914-18	22.99	----	----
Hook	8.99	----	----
Hoyles Book of Games 1 or 2 or 3	10.99	----	----
Hudson Hawk	6.99	----	----
Humans 1& 2	----	----	19.99
Immortal	10.99	----	----
Impossible Mission 2025	22.99	24.99	22.99
Indy Jones - Atlantis Adv	12.99	----	----
Indianapolis 500	10.99	----	----
Insight Dinosaurs	----	----	14.99
Intelligent Strategy Games	19.99	----	----
Ishar 3	22.99	26.99	----
IT's International Cricket	18.99	18.99	----
Ivanhoe	6.99	----	----
James Pond 3	----	----	8.99
J Nicklaus Greatest 18	6.99	----	----
Jaguar XJ220	8.99	----	----
Jetstrike	17.99	19.99	19.99
Jimmy White's Snooker	12.99	----	----
John Madden Football	10.99	----	----
Jungle Strike	17.99	17.99	17.99
KGB	12.99	----	----
Kick Off 3 European Challenge	16.99	19.99	----
Kid Chaos	10.99	12.99	12.99
Kingpin	6.99	----	----
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	7.99	----	----
Legends of Valour	12.99	----	----
Leisure Suit Larry 1 or 2 or 3	12.99	----	19.99
Lemmings 1	----	----	----
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 Trilogy	----	----	9.99
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	----	----
Marvens Marvellous Adv	----	19.99	19.99
Master Axe	19.99	19.99	19.99
Match Day Manager	8.99	----	----
Mean 18	8.99	----	22.99
Megarace	----	----	----
Megatraveller 1 or 2	12.99	----	----
Messengers Of Doom	19.99	----	----
MICROPROSE GOLF	**12.99**	**----**	**----**
Micro Machines	17.99	----	----
Midwinter	10.99	----	----
Midwinter 2	10.99	----	----
MIG 29 Fulcrum	10.99	----	----
Mighty Max	17.99	19.99	----
Military Masterpieces	19.99	----	----
Mini Office	35.99	----	----
MONKEY ISLAND 1 OR 2	**12.99**	**----**	**----**
Moonbase	34.99	----	----
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	----	19.99
Nigel Mansells W/Champ	8.99	----	19.99
Nightbreed	6.99	----	----
Night Shift	10.99	----	----
Odyssey	17.99	----	----
ON THE BALL-WORLD CUP EDITION	**9.99**	**9.99**	**----**
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	----	----
Parasol Stars	8.99	----	----
PEN PAL(WORDPROCESSOR)	**24.99**	**----**	**----**
PGA European Tour	17.99	17.99	17.99
PGA Tour Golf	12.99	----	----
Pictionary	6.99	----	----
Pinball Dreams & Fantasies	22.99	----	----
Pinball Fantasies	----	19.99	24.99
PINBALL ILLUSIONS	**----**	**19.99**	**19.99**
Pinball Magic	6.99	----	----
Pirates	10.99	----	22.99
Pirates Gold	----	----	----
Pinkie	17.99	17.99	19.99
Piltfighter	6.99	----	----
Player Manager 2	13.99	----	----
Police Quest 1 or 2 or 3	12.99	----	----
Populous & Promised Lands	12.99	----	----
POPULOUS 2	**12.99**	**----**	**----**
Powerdrive	19.99	19.99	19.99
Powerhouse	22.99	22.99	----
Powermonger & D/Disk	12.99	----	----
Predator	6.99	----	----
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	10.99	----	----
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	----
Rise Of The Robots	25.99	27.99	22.99
Risky Woods	10.99	----	----
Roadkill	----	9.99	9.99
Road Rash	10.99	----	----
Robocop 2	6.99	----	----
Robocop 3	10.99	----	----

	500	1200	CD
Rome AD92	12.99	----	----
Rugby League Coach	19.99	----	----
Rules Of Engagement 2	22.99	----	----
Ruff n Tumble	17.99	----	----
Ruffian	13.99	----	----
Run the Gauntlet	6.99	----	----
Sabre Team (Enhanced)	----	20.99	20.99
SCI (Chase HQ 2)	6.99	----	----
SENSIBLE GOLF	**19.99**	**----**	**----**
SENSIBLE WORLD OF SOCCER	**19.99**	**----**	**----**
Sensible Soccer International	13.99	----	----
Settlers	19.99	----	----
Shadow Warriors	6.99	----	----
Shadowlands	8.99	----	----
Shaq Fu	17.99	----	----
Shuttle - S/Flight Sim	12.99	----	----
Sierra Soccer	12.99	----	----
Silent Service 2	16.99	----	----
Sim City 2000	----	26.99	----
Sim Classics (Ant/Life/City)	22.99	----	----
Sim Life	10.99	22.99	----
Simon The Sorcerer	22.99	26.99	26.99
SIMON THE SORCERER 2	**22.99**	**26.99**	**26.99**
Simpsons	8.99	----	----
Sink or Swim	8.99	8.99	----
Skeleton Krew	----	22.99	22.99
Skidmarks	12.99	----	----
SKIDMARKS UPGRADE	**12.99**	**----**	**----**
SKIDMARKS 2	**19.99**	**----**	**19.99**
Skitchin	17.99	17.99	17.99
Sleepwalker	6.99	8.99	19.99
Sly Spy	6.99	----	----
Soccer Kid	9.99	9.99	19.99
Soccer Team Manager	10.99	----	----
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
Sports Challenge	12.99	----	----
Stardust Special Edition	9.99	----	----
Star Crusader	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	----	----
Subversion	8.99	----	----
SUBWAR 2050	**----**	**12.99**	**22.99**
Super Hang On	6.99	----	----
Super Space Invaders	8.99	----	----
Super League Manager	19.99	19.99	19.99
Super Loopz	----	9.99	9.99
Super Methane Brothers	8.99	----	8.99
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	----	----
Syndicate	12.99	----	22.99
Tactical Manager - English or Scots	19.99	----	----
TACTICAL MANAGER 2	**19.99**	**----**	**----**
Team Yankee	12.99	----	----
Test Drive 2	6.99	----	----
Test Match Cricket	9.99	----	----
Terminator 2	6.99	----	----
Tetris	16.99	----	----
T.F.X	----	26.99	----
The Big 6 - Dizzy	----	----	12.99
The Blue & The Grey	22.99	----	----
The Clue	----	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**
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	----
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 Soccer Manager	19.99	19.99	----
Uncovered	17.99	----	----
Universe	22.99	----	22.99
Untouchables	6.99	----	----
Valhalla - Before the War	22.99	----	----
Valhalla - Lord Of Infinity	19.99	----	----
Vinccip	17.99	17.99	----
Vital Light	19.99	----	19.99
Wembley Rugby League	17.99	17.99	----
Wheel Spin	----	----	19.99
Wild Cup Soccer	17.99	17.99	8.99
Wing Commander	12.99	----	----
Winter Gold	12.99	----	----
Wizkid	10.99	----	----
World Class Leaderboard	10.99	----	----
World Class Rugby 95	13.99	----	----
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	8.99	----	----
X-IT - Zonked	19.99	----	----
Z-Out	6.99	----	----
Zak McKraken	10.99	----	----
Zee Wolf	19.99	----	----

SPECIAL OFFERS

Body Blows	12.99	12.99	----
Chaos Engine	9.99	----	----
Cool World	8.99	----	----
Disposable Hero	7.99	----	----
Jack Nicklaus Unlimited	12.99	----	----
J Nicklaus Designer Clip Art	7.99	----	----
K240	7.99	----	----
Legacy of Sorasil	7.99	----	----
MICROPROSE GOLF	**12.99**	**----**	**----**
Nick Faldo's Golf	12.99	----	----
Sensible Soccer 92/93	12.99	----	----
Shadowfighter	9.99	9.99	9.99
SYNDICATE	**12.99**	**----**	**----**
TORNADO	**9.99**	**9.99**	**----**
Vikings	8.99	----	----
Zool	8.99	----	8.99
Zool 2	8.99	----	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 (6-16)	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 Maths (7-11)	17.99	----	----
F School Paint & Create (5+)	17.99	----	----
F School Spelling Fair (7-13)	17.99	----	----
Grollers Encyclopedia	----	----	22.99
Hutchinson Encyclopedia	----	----	12.99
INSIGHT DINOSAURS	**----**	**----**	**14.99**
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 Pl'Time Big Adv (3+)	16.99	----	----
Picture Fractions (7-10)	10.99	----	----
Reasoning With Trolls (5-12)	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
Mouse House	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 Jetfighter	11.99
Quickjoy Pedals	13.99
Quickjoy Topstar	17.99
Quickjoy II Turbo	10.99
Saitek Megagrip 2 Autofire MX220	10.99
Screenbeat 3 Speakers SB203	12.99
Screenbeat 4 Speakers SB204	11.99
Screenbeat 5 Speakers SB205	11.99
Screenbeat Pro 50 Speakers SB250	32.99
Screenbeat RCA Adapter Cable	1.99
Screenbeat Power Supply	7.99
Suncom Stk Stick	5.99
Suncom Tac 2	7.99
SX-1 CD32	**189.99**
Wico Q Stick	4.99

3.5" Blank Discs

	TDK Low	TDK High	Precision Low	Precision High	Unbranded Low	Unbranded 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 File-a-fax	1.25
B010 QED	1.25
B011 A-graph	1.25
B012 Text Plus VERSION 4	1.25
B013 Analytic ALC	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

E001 Education 1	1.25
E002 The Bible (4 Disks)	4.99
E003 World Databank	1.25
E004 GCSE Maths	1.25
E005 Astronomy	1.25
E006 Total Concepts	1.25
E007 Bank Talk	1.25
E008 Dunks DTP	1.25
E009 Colour The Alphabet	1.25
E010 The Highway Code	1.25
E011 Junior Maths	1.25
E012 Electronic Train Set (1 MEG)	1.25
E013 Learn & PLay 1	1.25
E014 Learn & Play 2	1.25
E015 Treasure Hunt	1.25
E016 Wraithed One	1.25
E017 Story Land 2	1.25
E018 Wollstsname	1.25
E019 Speak & Spell	1.25

CREATIVE

C001 Slide Show Creator	1.25
C002 Label Designer	1.25
C003 Super Fonts	1.25
C004 Mobed	1.25
C005 Deluxe Paint Tutor	1.25
C006 Shadow Demo Maker	1.25
C007 Clip Art	1.25
C008 ABC Adventure Creator	1.25
C009 Litinois Labels	1.25
C010 Audio Animation Studio	1.25
C011 Word Power	1.25
C012 Font Farm	1.25
C013 Wine Maker	1.25
C014 Assassins	1.25
C015 Print Studio	1.25
C016 Garden Designer	1.25
C017 X Beat	1.25

UTILITIES

U003 The Workshop	1.25
U006 Address Book	1.25
U008 Asteroid	1.25
U010 Autograph	1.25
U013 The Right Way	1.25
U014 Panasonic Printer Driver	1.25
U015 H.P. Printer Driver	1.25
U016 Seikosha Printer Driver	1.25
U017 Cannon & Citizen Printer Driver	1.25
U018 H.P. 550c Printer Driver	1.25
U019 Imploder V4.00	1.25
U020 Bad Format	1.25
U021 Amiga Beginers Guilde	1.25
U022 Better Bench V1.2

Is it a bird?

Super DTP Amiga

Ben Vost checks out the ultimate Amiga upgrades and makes his own Super Amiga

The Amiga doesn't promise to be all things to all men, and women in these politically correct times, but it is surprising the different uses people put their machines to. From word processing to video, from 3D animation to image manipulation, from genealogy databases to route planners. People even play games on Amigas, believe it or not.

This diversity of application for our favourite machine means there are always new spheres for users to break into. New users seem to tend to buy their Amigas solely for games playing, but the lure of all that other software soon takes hold. With the advent of ever cheaper SCSI hard drives and hard drive controllers, getting into the serious side of the Amiga has never been easier. Now all we need is a cheap, good quality monitor compatible with all Amiga screen modes.

Ah, but what of the ideal Amiga? I guess if you had an unlimited amount of money to spend and an unlimited number of PCMCIA, trapdoor or Zorro slots, you could get yourself a pretty amazing bit of kit. But seeing that most people are limited to one of the former and four of the latter, we don't want to go too crazy.

CRITERIA

So what criteria shall we apply. Well, I'll limit each category of machines to only two choices for hardware and two for software – that way we won't be spending excessive amounts of money.

I'll assume both our base machines – the new A4000T-040 and an Amiga 1200 – have got an existing hard drive of at least reasonable size, and that the A4000T has 10Mb RAM. Both machines can have a standard 1942 or Microvitec because I'm feeling generous, but that's it. No more.

Let's determine what the categories are going to be for our SuperAmiga. With only two pieces each of hardware and software, we can't possibly have the best Amiga of all worlds, so we try for the best Amiga for, say, DTP. Right, we've got one category, what about the others? Hmm, what's the Amiga good at... OK how about categories for graphics, video, 3D modelling, and music. I think that will do for now.

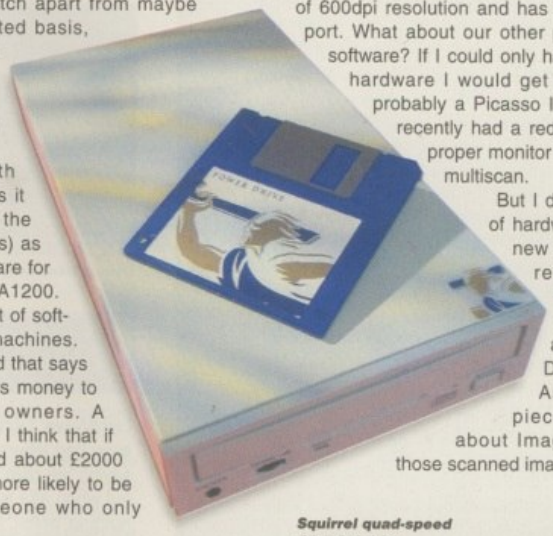
So let's start looking at those categories. We may as well go in the order I listed them (hey, it's my article, I'll do what I want). So without further ado, let's have a look at the ideal A4000T and A1200 for DTP.

Unfortunately, our choice of software for the A1200 and A4000T is rather limited these days. Basically, you can have PageStream, or there's PageStream and if you don't like that you could always choose, erm, PageStream. ProPage is no longer in development, although you might be able to find a copy of it from somewhere. As for the others, none of them were really up to scratch apart from maybe PageSetter, on a limited basis, and yes, you guessed it, it's no longer in development either and is just as hard to find as ProPage.

So we'll go with PageStream 3 (perhaps it will be version 3.1 by the time you get to read this) as our main piece of software for both the A4000T and A1200. We still have another bit of software to get for both machines. I'm going to start a trend that says A1200 owners have less money to spend than A4000T owners. A stereotype? Maybe, but I think that if you are willing to spend about £2000 on a machine, you're more likely to be rolling in it than someone who only spends £400.

So for my other piece of super software for an A1200 I'm going to suggest that the best choice would be Studio II printer software and an HP Deskjet 660C for hardware. This new version of the excellent Deskjet 500C gives very high resolution mono output and great colour for a price that would have been unthinkable four years ago. Combine this with the superb output that Studio is capable of producing and you'll have a hell of a low-end set up. To top off my hardware choice I think a CD-ROM drive would be the most useful item to take advantage of the many CD-ROMs filled with clip art that are available. As for the A4000T side of things, how about a nice HP Laserjet 5MP? This laser printer is capable of 600dpi resolution and has PostScript level 2 support. What about our other piece of hardware and software? If I could only have two more pieces of hardware I would get a nice graphics card, probably a Picasso II – especially as it has recently had a reduction in price – and a proper monitor like the Idek Iiyama 17" multiscan.

But I don't, so my other piece of hardware is going to be the new Artec Colour scanner, reviewed a couple of months ago. This sub-£400 scanner is an absolute boon to the DTPer lurking within you. As for my remaining piece of software, what about ImageF/X 2.1 to process those scanned images. ➤



Squirrel quad-speed CD-ROM drive

Artec ColourStation

A1200

Software
PageStream 3, £174.95 from Emerald Creative – 0181-715 8866
Studio II, £49.95 from JAM – 01895 274449

Hardware
HP Deskjet 660C, £385.99 from First Computer Centre – 0113 2319444
Squirrel quad-speed CD-ROM drive, £259 from HiSoft – 01525 718181

A4000T

Software
PageStream 3, £174.95 from Emerald Creative – 0181-715 8866
ImageF/X v2.1, £249.99 (but look for special offers) from Wizard Developments – 01322 272908

Hardware
HP Laserjet 5MP, £914.99 from First Computer Centre – 0113 2319444
Artec ColourStation, £399.99 from Gasteiner – 0181-345 5000

Super Video Amiga

If there's one area in which the Amiga excels more than in graphics, it is in video production. We have genlocks coming out of our ears and video titling packages to match. Whether they are the high-end like Montage 24 or cheap and cheerful like Big Alternative Scroller 2, the overriding message is that if you want a machine for video use, then get an Amiga.

Our low-end Amiga is still a powerful production tool in its own right, so what are we going to pile onto it? Both our machines are going to need genlocks, although the A1200 does have a pretty good composite out. On the genlock front, the choice for many a user has long been the Rendale 8802 and variants, so that's the kiddie I'll pick for the A1200.

As for my other piece of hardware, I think it would have to be either a frame grabber or a scanner, to incorporate logo's and images, etc. into video work. So I'm going to go for the ProGrab again because it really is groovy.

On the software stakes, I think that you'd have to go a long way to beat the feature list in Deluxe Paint V which is particularly suited to creating flying logo animations but not necessarily scrolling text. For that I think we'll need Big Alternative Scroller 2 which is very simple but scrolls splendidly.

For the A4000T we're going to seriously beef up the spec. Because our machine comes with a fairly good SCSI hard drive, we're really going to test it to the limits by chucking a VLab Motion card into the mix. The VLab Motion is probably one of the best bits of hardware released for the Amiga this year. It can grab live video in realtime and play it back. With the optional Toccata card you can add synchronised sound to your animations, but that isn't all.

VLab Motion also comes with a whole series of special effects and DVEs that can be applied to a VLab Motion sequence. The only problem is that they can take quite a while to generate, so the other piece of hardware I am going to choose is the CyberStorm 060 accelerator card which should ensure that even the most complex of effects gets a kick up the backside speed-wise.

This 68060-based accelerator makes sure you have the fastest possible Amiga, and even takes the SIMMs from your motherboard so you won't need to buy new memory. This board should also guarantee that the two programs I choose for the software side of the deal will run as fast as possible.

For one of those programs I am going to choose LightWave, possibly the best video production tool the Amiga has in its arsenal. The other is going to have to be Scala Multimedia 400. This program is suitable for video titling, multimedia presentations, and all manner of other things. At the price you have to pay for it, it offers one of the best deals for software available.

A1200

Software
Deluxe Paint V, £59.95 from Emerald Creative – 0181-715 8866
Big Alternative Scroller 2, £49.95 from Emerald Creative – 0181-715 8866

Hardware
Rendale genlocks, from £149-£299 from Rendale – 01604 790466
ProGrab 24RT Plus, £129.95 from Gordon Harwood – 01773 836781

A4000

Software
Lightwave 4, £tbc from Cybersystems – 01843 292150
Scala MM400 £299 from Silica Systems – 0181-309 1111

Hardware
CyberStorm 060, £995 from White Knight Technology – 01920 822321
VLab Motion, £999 from Cybersystems – 01843 292150

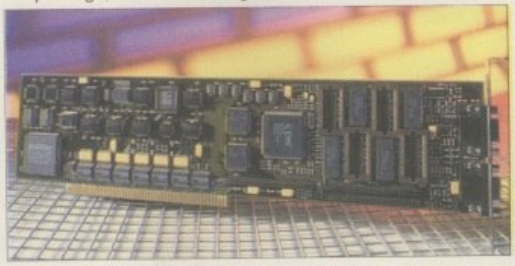
Super Graphics Amiga

Graphics is a bit of a toughie. There are so many excellent programs for creating and editing graphics on the Amiga that it's hard to know how to pick two. Right, roll up my sleeves and start on the A1200. Graphics hardware is definitely going to have to incorporate a frame grabber of some description and the ProGrab 24RT has been very well received by everyone.

Following on the heels of the Vidi range of products, the ProGrab can be used through either the parallel port or PCMCIA slot. It works with all AGA screenmodes for the highest possible quality grabs and has many built-in image processing features. It now comes in a Plus version including S-VHS input for the same low price. I think the other piece of hardware should probably be a CD-ROM drive again, particularly one with PhotoCD access, for all those graphics CDs.

As far as software is concerned, no super graphics Amiga would be complete without a paint package, so my nomination would be for Personal Paint. And because this A1200 has a CD-ROM drive, I'm going to plump for the Personal Suite CD-ROM which not only contains Personal Paint, but also Personal Write and the two Personal Font Makers, one each for mono and colour fonts, along with a whole host of art and fonts.

Since Personal Paint includes some image processing functions, I'm not going to choose an image processor as my second choice. Instead I'm going to go for a second art package, this time Photogenics. Photogenics is probably the software title of the year for most Amiga users.



CyberVision 64 graphics board

In case you've been living on Mars this year, Photogenics is a 24-bit paint package which you can even use on a machine without a 24-bit graphics card by working in HAM-8. It supports a wide range of file formats and is ideal for retouching digitised images.

Super 3D Amiga

LightWave, LightWave, LightWave. We've even had letters of complaint from people saying we give it far too much coverage, but when all's said and done, there's nothing better for general 3D modelling and animation on the Amiga.

Imagine has much nicer textures and Real 3D is extremely powerful, but only LightWave gives the user a modicum of power for very little effort. It is ideally suited to commercial work and with all the add-ons that are available for it, there is a flow of new ways to use it. However, I hesitate to recommend it for use with an A1200 owing to the fact that it has pretty high memory requirements and we haven't included any memory in with our stock A1200.

CyberStorm 060

I am going to choose an accelerator for the A1200, but I don't think it would be in the style of this article to furnish it with more than the fairly standard four megs of memory. So what am I going to choose as my rendering package for the A1200? I think it has to be the latest version of Imagine which, while overshadowed by its more famous rival, is still capable of some stunning renders.

My other piece of software would have to either be a paint package for creating texture maps or a 3D object translator. But seeing that Imagine comes with many exquisite algorithmic textures I think we can safely go for the object translator instead. I'll go with Pixel3D Professional v2 which offers the most facilities, including the ability to 'paint' polygons and import text as objects.

On the hardware side of things I think a CD-ROM would come in handy again, for all those CDs filled with objects and

doesn't have any animation facilities, unlike Personal Paint, but it does have advanced image processing capabilities like warping and rippling.

That's the A1200 out of the way then. For the A4000T I'm going to 24-bit. First up on the hardware front would have to be a graphics board – the CyberVision64 springs to mind. Secondly, although it would be nice to get a better monitor so that full advantage could be taken of the CyberVision's capabilities, I'm going to go for a Wacom pressure-sensitive graphics tablet. This little gem responds correctly to the amount of pressure you place on the nib of the stylus so your airbrush flow gets more dense and your charcoal gets more coverage.

This tablet doesn't work with all software, so I'm going to have to pick a program that takes full advantage of its facilities. The program I'm going to go for is TVPaint version 3 which has multiple layers, a superb airbrush, and even some image processing functions – not to mention an ARexx interface.

I think the choice for the second piece of software is a toss-up. Photogenics takes advantage of the CyberVision's ability to open 24-bit intuition (Workbench) screens, and MainActor can compile animations in 24-bit or the most common foreign formats like .FLC or .DL. However, I think I'm going to have to go for ImageF/X v2.1 again. This is another program that fully supports the CyberVision's 24-bit intuition screens so you can see exactly what you are doing to the images you are processing without having to go through the render modules required for other graphics displays.

A1200

Hardware
Squirrel quad-speed CD-ROM drive, £259 from HiSoft – 01525 718181
ProGrab 24RT Plus, £129.95 from Gordon Harwood – 01773 836781

Software
Personal Suite CD, £39.95 from Amiga Computing – 01625 878888
Photogenics v1.2, £59.95 from Almathera – 0181-687 0040

A4000T

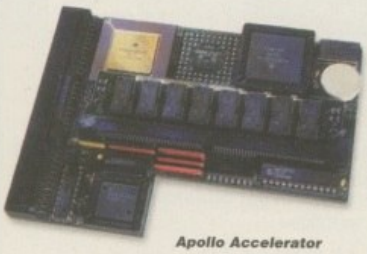
Hardware
CyberVision64 2Mb, £329.95 from Gordon Harwood – 01773 836781
Wacom tablets, £469.95 - £999.95 from White Knight Technology – 01920 822321

Software
TVPaint 3, £349 from White Knight Technology (check for bundles with the Wacom tablet) – 01920 822321
ImageF/X v2.1, £249.99 (but look for special offers) from Wizard Developments – 01322 272908

texture maps. On the accelerator front, it's hard to choose one particular accelerator as there are so many available. But in keeping with our cost-cutting approach for our A1200 machine, I'm going to choose a relative newcomer to the field - The Apollo – which had, at time of writing, the privilege of being the cheapest decent card for the A1200.

Our A4000T is a pretty fast machine to start off with, but even it could still do with more processor power. So let's punch in that CyberStorm once more and push the envelope that bit further. Now our LightWave renders should just fly out of the machine, for LightWave *is* the software I'm going to choose for our top-end machine.

But I still need another bit of hardware and software. LightWave includes several object translation routines furnished by Syndesis, so I think I should concentrate on an art package. However, because I've only got one piece of hardware left to me it's going to have to be a native mode graphics package, so I'm going to go for Photogenics again. As for my other piece of hardware, it might have to be a CD-ROM as well, an internal one this time and NEC do a nice 6-speed number.



Apollo Accelerator

A1200

Software
Imagine 3.x, £99.95 from Emerald Creative – 0181-715 8866
Pixel 3D Professional 2, £94.95 from Emerald Creative – 0181-715 8866

Hardware
Apollo Accelerator, from £99.99-£189.99 from Visage Computers – 0115 9642828
Squirrel quad-speed CD-ROM drive, £259 from HiSoft – 01525 718181

A4000

Software
Lightwave 4, £tbc from Cybersystems – 01843 292150
Photogenics v1.2, £59.95 from Almathera – 0181-687 0040

Hardware
CyberStorm 060, £995 from White Knight Technology – 01920 822321
NEC 6Xi CD-ROM drive, £312.99 from First Computer Centre – 0113 2319444

Super Music Amiga

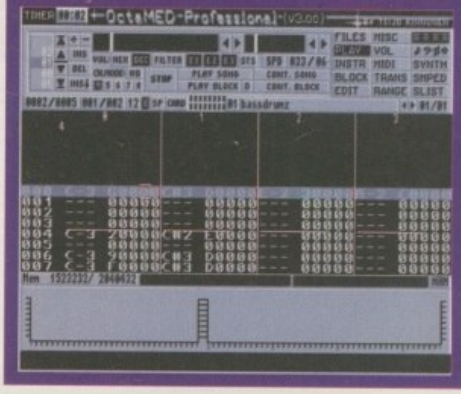
Music has long been an underrated aspect of the Amiga, but the sheer number of 'mods' available on the Aminet attests to the musical talents of our machines and their users. Any discussion of music equipment for an Amiga has to include Octamed and a MIDI interface, let alone a sound sampler.

So we'll start off by including Octamed 6 in the bundle for both our machines and a sound sampler. For the A1200 a Technosound Turbo 2 is in order. A venerable 8-bit sound sampler, Technosound Turbo has been around for a while and is probably the best-selling Amiga sound sampler outside StereoMaster. It has built-in effects, both for realtime manipulation of sound and for the sounds you have sampled, and operates in mono and stereo.

Octamed is also another long-running product. It was available first as a shareware product but it has now evolved into a full-blown commercial offering. At only £40 it really does represent excellent value for money and can bypass the Amiga's four channel limit for sound by multiplexing to offer eight, 12 or even 16 channels of sound.

Our A4000T sampler ought to be something a little more exclusive, so we'll go for the Studio 16 package which consists of a sound sampling card that can sample true 16-bit sounds at up to and beyond CD quality. It can play back from a hard drive and offers several channels for the sound.

Our other piece of hardware for both machines can be that MIDI interface I mentioned earlier. HiSoft do a nice one called the ProMidi Interface which comes with a Midi in, Midi thru and two Midi out ports. Our other piece of software? How about Music X 2 as a sequencer to make the best use of that Midi interface for the A1200 and Bars and Pipes Professional for the A4000.



Octamed

A1200

Software
Octamed 6, £40 from RBF Software – 01703 785680
Music X v2, £49.95 from Emerald Creative – 0181-715 8866

Hardware
Technosound Turbo 2, £28.99 from First Computer Centre – 0113 2319444
Pro MIDI Interface, £24.99 from HiSoft – 01525 718181

A4000

Software
Octamed 6, £40 from RBF Software – 01703 785680
Bars & Pipes Professional v2.5, £199.95 from Emerald Creative – 0181-715 8866

Hardware
Studio 16, £999 from White Knight Technology – 01920 822321
Pro MIDI Interface, £24.99 from HiSoft – 01525 718181

(01903) 850378 SEASOFT

VISA MasterCard Access

PD PRICE CRASH – TO CELEBRATE OUR 5th ANNIVERSARY WE HAVE SLASHED THE PRICE OF OUR PD TO JUST 80p PER DISK FOR 10 DISKS OR MORE

OctaMED V6 £35.00

94% – CU Amiga
91% – AUI

New font-sensitive GUI layout. Loads & saves Std 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 and 1.5 Meg Ram) Registered V5 users – please call for upgrade details

T.I.11 - £2.50

Latest issue of the MED Users Group Disk mag. Essential reading for all OctaMED users (Iss 6 to 10 also available)

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.

LATEST PD/SHAREWARE

2273 - GOLD ED 3 #^ (1)
Comprehensive Text editor, HD required
2279 - ENDURANCE GAME ^# (1)
Demo of graphic 3D Adventure game
2280 - M.A.S.H. GAME #^ (1)
Out of this world "Tanks" v "Spuds"
2281 - BANKS MANAGER V1.4 # (1)
Demo, keep track of your Bank Account
2282 - KIDS ONLY DEMO (1)
Demo of our "Kids Only" licenceware prog
2283 - BEATRIX POTTER CLIPART (1)
Mono Iff Clipart for DPaint etc
2284 - MONSTERS CLIPART (1)
Mono Iff Clipart for DPaint etc.
2285 - REKO DATATYPES #^ (1)
2286 - JUMP EM GAME (1)
Commercial quality platform game
2288 - WORLD HISTORY TIMETABLE (1)
Important dates form 4000BC to 1960
2293 - MAGIC WORKBENCH BACKGROUND KIT #^ (1)
Make your own backgrounds
2295 - PC TASK V3.1 #^ (1)
Demo of the latest PC emulator
2296 - MANUAL OVERRIDE #^ (1)
Great MegaDemo
2297 - FINAL FAX (1)
Fax interface for Final Writer 3
2298 - CARD GAMES DELUXE #^ (3)
Excellent Video Poker and Blackjack game which uses the Klondike Card sets - HD required
2301 - JET SET WILLY 3 #^ (1)
Platform game
2302 - NO SAMPLER MODULES 1 #^(1)
Various OctaMED Modules
2303 - HD GAMES INSTALLER 3 (1)
Installs over 20 games including Beneath Steel Sky, Bump n Burn, Lion King AGA, Naughty Ones, Sensible World of Soccer, Skidmarks 2 etc. need original programs to run
2304 - NFA CARD SET #^ (1)
2305 - OCEAN CARD SET #^ (1)
2306 - SPACE CARD SET #^ (1)
Use with Klondike/Deluxe Card game
2307 - OJ SIMPSON CASE (1)
Learn all about the trial of the decade
2308 - TGP 95 MODULES (3)
Excellent mods from TGP 95
2312 - FIREMAN SAM CARD SET #^ (1)
2313 - ROSIE AND JIM CARD SET (1)
For Klondike/Deluxe Card Game
2314 - SUN SLIDESHOW #^ (1)
Stunning fantasy pictures
2318 - ROOTS 2 #^ (1)
Impressive Demo from Sanity
2319 - WALLACE & GROMIT CARD SET #^ (1)
2320 - LAST LAP # (1)
Excellent overhead car racing game
2321 - TS MORPH V3.2 # (1)
Professional morphing program
2322 - DREAM OF FLYING # (1)
Excellent OctaMED Modules
2333 - SPACED OUT # (1)
Demo of two excellent platform games
2334 - NIBBLE # (1)
Colourful Boulderdash clone
2335 - EXCELLENT CARD GAMES III #^ (1)
Poker, Czarina, Colours, Scottish & Napolean
2336 - COURSE ANGLER # (2)
Excellent coarse fishing games/simulator
2338 - MANDAL (1)
Fractal Generator
2339 - FEARS 1 #^ (1)
One level demo of this impressive game
2340 DOPUS UTILS VOL 2 (1)
Various utilities for use with D'Opus
2341 CHANEQUES # (2)
Excellent game – watch out lemmins!
22343 MUI DEVELOPERS KIT (1)
2344 PAGESTREAM 3H UPDATE (2)
2360 IMAGINE OBJECTS # (1)
Dinosaurs objects for use with Imagine 2/3
2361 NITE BEFORE XMAS CARD SET #^ (1)
Use with Klondike/Deluxe Card Game
2362 - MAGIC WB EXTRAS 5 #^ (2)
2364 - MAGIC WB EXTRAS 6 #^ (2)
2366 - MAGIC WB EXTRAS 7 #^ (2)
2368 - MAGIC WB EXTRAS 8 #^ (2)
2370 - MAGIC WB EXTRAS 9 #^ (2)
2372 - MAGIC WB EXTRAS 10 #^ (2)
2374 - MAGIC WB EXTRAS 11 #^ (2)
2376 - MAGIC WB EXTRAS 12 #^ (2)
Various extras for Magic Workbench including Icons, Backdrops etc.
2378 - STEREOPTICON (1)
Produce true stereoscopic pictures
2379 - NOTEBOOK (1)
Flexible all purpose organiser
2380 - DOWNLOADER (1)
26 new fonts for use with 24 pin dot matrix printers or compatible printers.
2381 - BALLS (1)
Well presented Shareware Lottery predictor based on previous numbers - The best I have seen to date.
2382 - SEVERED HEADS #^ (X) (2)
Graphic adventure game, adult only
2383 - BATTLE SHIPS (1)
Traditional 1 or 2 player board game
2384 - AMIGA DOS GUIDE # (1)
Comprehensive Amiga Dos guide
2385 - DEVILS ABODE (X) # (1)
3d Graphic Adventure game
2386 - TINY TOONS CLIPART (1)
Mono clipart of your favourite characters
2387 - WORDS V2.3 # (1)
Comprehensive Spell checker for ISpell & Gold Ed (LHA format)
2288 - MR GREEDY (1)
Excellent Story book for young kids
2289 - CMS TRAX 6 #^ (1)
5 excellent Octamed Modules
2290 - ALIENS CONFIDENTIAL MULTIMEDIA #^ (9)
9 disks packed with interesting facts

PD/SHAREWARE PRICES

1 disk – £1.50, 2 to 4 disks – £1.25,
5 to 19 disks – £1.00, 10+ disks – 80p

Prices per disk – Number of disks shown in brackets
Titles marked # will not work on A500 (V1.2/V1.3)
Titles marked ^ will not work on A500+/A600
Titles marked (X) are suitable for over 16s only

2323 - AUTO STEREOGRAM V4B # (1)
Produce Stereogram pictures
2324 - SPRINGTIME # (1)
Commercial quality puzzle game
2325 - CANON PRINT STUDIO # (1)
2326 - ZENEX # (1)
Excellent puzzle game
2327 - THIRD DIMENSION 15 (1)
Latest disk Mag for 3d Con Kit users
2328 - MALEDICTION # (1)
Impressive game
2329 - MOMENTS #^ (1)
Stunning, well presented AGA demo
2330 - MELCHOIR #^ (2)
HD/2+ Meg Impressive Demo (lha format)
2332 - TEMPLE OF DECREASE #^ (1)
Traditional AGA Demo
2346 VIRUS CHECKER V6.56 (1)
This very latest and best virus checker
2347 CHILDREN CLIPART (2)
Monoo clipart of Children
2349 VENUS CARD SET #^ (1)
2350 ADVANCED D&D CARDSET #^ (1)
2351 REN & STIMPY CARD SET #^ (1)
2352 DOOM 2 CARD SET #^ (1)
2353 ASTERIX CARD SET #^ (1)
2354 GREYHAWK CARD SET #^ (1)
2355 KATHY IRELAND CARD SET #^ (1)
2356 RECORD COVERS CARD SET #^ (1)
2357 SREET FIGHTER 2 CARD SET #^ (1)
2358 PAMELA ANDERSON CARD SET #^ (1)
2359 KYLIE CARD SET #^ (1)
NOTE the Card Sets listed above are for use with Klondike V3 or Deluxe Card Games only

AURAL ILLUSION 2 £20.00

8/16 BIT SAMPLE PROCESSOR

32 bit processing
55 manipulations
30 Effects including Time Stretch, Graphic Eq, Mixer & Resonant Filter
Compatible with most popular 8/16 bit file formats including IFF, AIFF, WAV, VOC etc
Improved Synthesised Sound Editor
(needs Kickstart 2 or greater & 2 Meg of RAM)

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 6 now available)

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

UTILITIES

1310 COPIERS UNLIMITED (1) #
Excellent collection of copiers
2082 DOPUS COMPANION (1)
A must for all users
1997 FINAL WRITER PATCH (1)
Speed up FW V3 by up to 400%
2009 HARD DRIVE UTILS # (2)
Aback Up, Fix Disk, VC, Click Dos 2, ReOrg, Tools Daemon, Mr Back Up
2003 IMAGE STUDIO V2 # (2)
Image processor and conversion package
1200 KICK V1.3 (1)
Get those old programs working on your A500
1719 LION KING CLIPART (3)
Colourful clipart from the Disney film
1344 MAGIC WORKBENCH #^ (1)
Jazz up your WB – needs HD
2292 MAGIC WB EXTRAS 4 #^ (2)
788 MESSY SID 2 (1)
Amiga > PC convertor
1261 N COMM V3 (1)
Classic comms package
1318 PRINTER DRIVERS (1)
Canon BJ; HP Deskjet; Ricoh LP1200
966 SID 2 (1)
Directory utility
2162 SPONDULIK 5 #^ (1)
Powerful personal accounts system
2315 TERM V4.3 (3)
Latest version in archived form
2011 VISION & SOUND # (3)
PPMore, PPShow, PPAnim etc.

A1200 ONLY

2059 ASI FIX DISK 3 (1)
More excellent degraders
1685 AGA UTILITIES (3)
Rend24, PPShow, Viewtek, BBlank, ForceVGA, DoubleX, Plasma, Icon Illusion, Quick Grab, Ham8-JPeg, Clouds
1619 A1200 HD SET UP (1)
A1200 HD prep disk
1910 AGA SPECTRUM EMULATOR (2)
Latest emulator with 23 games
2268 BIG GIRLS 2 (X) (3)
Well presented 20 "Page 3" pics
1881 CLAUDIA SCHIFFER (X) (3)
Excellent pictures of top model Claudia
2187 DEEP (2)
First place at "The Gathering 95"
2180 ECSTACY (1)
Excellent Acid/Rave demo
2272 FINAL WRAPPER V3 (1)
Various Macros for Final Writer
2257 GREEN DAY (3)
HD/ha format – Excellent Megademo
2173 ITCHY & SCRATCY 4 (X) (1)
A must for all Simpsons fans – sick!
2251 MAN ON THE MOON (4)
Req HD/4 Meg Fast/2 Meg Chip to run this very powerful AGA Demo
2092 M.U.I. V2.3 (1)
Magic User Interface – lha format
2264 SWAZBLANKER V2.7 (1)
Modular Screen/mouse blanker

CD-ROM's – SUMMER SALE

free postage & packing (UK only)

ADULT SENSATIONS – £17.50
AMINET 5, 6 & 7 – £13.50 each
AMINET SET 1 (quad pack) – £25.00
AMOS PD V2 – £17.50
ASSASSINS COLLECTION – £17.50
C64 SENSATIONS – £17.50
FRESH FONTS 1 & 2 – £17.50 each
GIGA GRAPHICS (quad pack) – £34.99
GRAPHICS SENSATIONS – £17.50
HOTTEST AMIGA MEGA DEMOS – £17.50
HOTTEST 4 & 5 – £17.50 each
LSD/17 BIT COMPENDIUM 1 & 2 – £17.50 each
MULTIMEDIA TOOLKIT 2 – £22.50
PROF. IFF/PCX 1 & PROF. GIF – £17.50 each
PROFESSIONAL IFF/PCX 2 (with book) – £17.50
SOUNDS TERRIFIC – £17.50
SOUND & GFX WORKSHOP (double) – £17.50
SPECTRUM SENSATIONS 1 & 2 – £17.50 each
UPD GOLD (quad pack) – £25.00
WS ANIMATIONS (double) – £17.50
ZOOM – £17.50

GAMES & EDUCATIONAL

2121 AZ PAINT PAD (1)
Excellent paint package A-Z pics
2274 FEARS 2 #^ (1)
1 level demo of Doom style game
2267 GCSE MATHS PAPERS # (1)
A must for all maths students
2056 HISTORY TIMETABLE (1)
World history book
2275 LETHAL FORMULA # (1)
Excellent Graphic Adventure game
2209 PERSONAL ANALYSER # (1)
Do you know yourself?
2108 POKER MANIA (1)
Addictive Poker Game
2049 PRO GAMBLE (1)
Horse racing prediction system
2050 PICTURE MATHS (1)
Simple program make learning fun
1780 UNKNOWN UFO (6)
Full information about UFOs
1526 WORD FACTORY (1)
Spelling game for young kids
1607 WORLD MAPS CLIP ART A-Z (9)
Colour clip art for DPaint 4 & 5, DTP etc.
ASI 234 HIGH OCTANE overhead racing game, ASMODEAS underwater platform game, GO KART MANIA racing game
ASI 1238 DYNAMITE WARRIOR II boulderdash clone, LUNAR PATRO shoot em up, DOG FIGHT air warfare

MUSIC UTILITIES

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
Packed with Music X Utilities
1993 MUSIC X UTILITIES VOL 2
Various Synths Protocols, Voice/Patch/Wave libraries
2204 OCTAMED V6 DEMO # (1)
Non save demo (1.5meg)
2024 PROTRACKER V3.15 (1)
Latest version of this popular tracker
1855 X BEAT PRO III (1)
The very latest Drum Machine

OCTAMED 5 & 6 MODULES

2273 DREAMS OF FLYING (1)
2029 EVOLUTION (2)
2242 NOODLES 3 (1)
2243 NOODLES 4 (1)
2171 OCTAPUSH ROCK 2 (1)
2224 OCTAPUSH WEIRD (1)
2031 THE THIN LINE (1)
We also stock the entire range of Mod User Group Samples and Mods and loads of other Tracker Modules and thousands of IFF and Raw samples

SPECIAL VALUE PD PACKS

IMAGINE OBJECTS
10 Disks packed full of quality Imagine objects covering many subjects, something for everyone
£8.00

MAGIC WORKBENCH EXTRAS
10 Disks (Vols 1-5) packed full of Icons, Backgrounds etc. for Magic W/B.
£8.00

ASSASSINS GAMES
10 Disks full of the very latest Games from the Assassins group
£8.00

EDUCATIONAL
10 Disks packed with various Educational programs aimed at young children
£8.00

SAMPLES PACK
10 disks packed with quality Samples for your favourite Music package (State IFF or RAW)
£8.00

KLONDIKE, VIDEO POKER & BLACKJACK
10 disk pack with these excellent card games for A1200 (HD required). With a number of card sets
£8.00

ZX SPECTRUM
10 disks packed with the latest Speccy Emulator and various Speccy Games. Take a trip down memory lane!
£8.00

OctaMED MODS
Hundreds of modules from the Med Users Group members collection
10 disks per pack, 6 packs currently available
£8.00 per pack

CG FONTS PACK
Over 250 Compugraphic fonts (Vol 1 or Vol 2 – 10 disks per set) for WB 2 & 3, Wordworth 2+, Page Setter 3 etc.
£8.00 per pack

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)

DISNEY CLIPART
10 Disks of Mono & Colour IFF Clipartform Donald Duck to the Lion King
£8.00

OctaMED 4
6 disks including the full version of this A500 compatible music program, manual, samples & modules to get you started
£5.00

GLAMOUR PACK
15 disks packed with AGA beauties from the famous Body Shop collection
£12.00
(A1200 only – not suitable for anyone under 16)

OFFICE PACK
5 essential tools for the small office – Word Processor, Database, Spreadsheet, Forms Designer & Accounts
£4.50

CLR LICENCEWARE

WE STOCK THE COMPLETE RANGE OF CLR TITLES – CALL FOR COMPLETE LIST

CLU32 – POWER TEXT 2 – £3.95
Powerful Word Processor and Spell Checker
CLE63 – JUNIOR MATHS – £3.95
Pre-Early School – fun Maths Tutor
CLE58 – STARS & GALAXIES – £5.95
Well presented encyclopedia all about the Stars
CLU3 – TYPING TUTOR – £3.95
Commercial quality program, lessons, speed tests etc.
CLG72 – OG 2 ^# – £3.95
A colourful platform game for kids – worth a look
CLE54 – TITANIC – £4.95
Comprehensive information about the Titanic

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

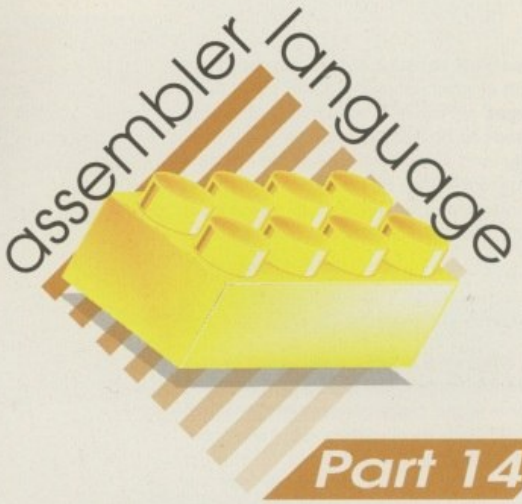
10.00am to 7.00pm Mon-Fri (to 5pm Sat). Callers by appointment only please

F1 LICENCEWARE

WE STOCK THE COMPLETE RANGE OF F1 TITLES – CALL FOR FULL LIST

F1 34 – F1 CHALLENGE – £3.99
Manage your own Grand Prix racing game
F1 43 – MAGPIES CLIP ART – £7.99
900 High Quality mono scanned Iff pictures
F1 44 – BLACKBOARD #^ – £5.99
Comprehensive Image Processor, needs 2 drives
F1 48 – ERIK – £3.99
Commercial quality platform game for kids
F1 66 – GRAC # – £4.99
Powerful Graphic Adventure Creator
NOW AVAILABLE THE VERY LATEST VERSION OF GRAC WITH PRINTED MANUAL – £6.99

In a state of collapse



Part 14

Don't worry, this isn't bad news about Commodore – just Paul Overaa on his assembly language trail. This month he provides Intuition newcomers with a useful window arrangement tip

You've doubtless all seen programs that start as a collapsed bar inside a screen or window's title area and then open to a full sized window when the zoom gadget is activated. This trick is often used by utility programs to allow them to remain permanently available for use while not taking up much screen display space. Luckily, it's not that difficult to do and this month, for the benefit of those of you new to Intuition coding at the 680x0 level, I thought it would be useful to explain how it is done.

Needless to say, the code used to perform this trick is fairly minimal, but in order to provide a runable example it is necessary to incorporate the various statements into a fully fledged Intuition program. You'll find the source for this on disk as the file october.s and it is with the overall structure of this code that we need to start our discussions.

The program begins by opening the intuition and gadtools libraries using a loop arrangement. If you end up wondering why I use this method when just two libraries are involved, it's because it's a useful standard approach since it works for any number of libraries. This technique, incidentally, was first discussed in the September '94 issue of *Amiga Computing* (and then outlined briefly again in the April '95 issue). If you find this section of the code at all mysterious then I'm afraid you will have to dig out (or beg, borrow, or steal) one of the above mentioned back issues. Failing that, you could always treat yourself to a copy from our back issues department!

Immediately after the library opening section comes a set of allocation/deallocation routines controlled by a series of subroutine calls. This code, again, should have a familiar ring to it since the approach has been used many times in past examples. A series of subroutine calls are made to lock the Workbench screen, get the VisualInfo data, open a window, and attach a simple (two-item) menu to it. If you've not seen this type of code before, here's a brief description of how it works.

ALLOCATIONS

All resource allocation operations (i.e. things the program needs to set up before it can be considered as truly up and running) are coded in such a way that, providing they are successful, the address of the corresponding deallocation routine gets pushed onto a special 'deallocation stack'.

When the program terminates, these addresses are removed and the associated deallocation functions executed. This method ensures that deallocation during closedown is always performed in the reverse order to that used during program startup (for full details of this particular trick take a look at the October '94 issue). Once the program is up and running (i.e. all allocation routines have been successfully executed), control passes to an event handling routine. The sole job of this area of the code is to identify the various classes of events that Intuition has been asked to send the program, and take the appropriate action for each event that is detected.

Listing 1 constitutes the program's event handling code. This starts by performing an exec library WaitPort() call which puts the program to sleep until Intuition sends us a message saying something of interest has happened. How does the program tell Intuition what sorts of events are of interest? It's all done via the Window's tag list description – if you look at the tag entries in listing 2 you'll see that a WA_IDCMP tag is being used like this... dc.l WA_IDCMP,IDCMP_MENUPICKIIDCMP_CLOSEWINDOW. This tells Intuition we want to receive notification whenever the user activates the menu or hits the close gadget.

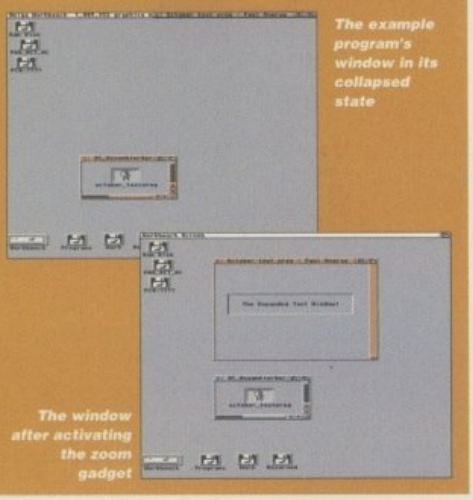
Remember, incidentally, that whenever any IDCMP (Intuition Direct Communication Message Port) tags like these are specified in a window definition, Intuition will set up the appropriate window message ports automatically, so this is not something our program has to worry about. What we do need to identify, however, is the address of the window's ➤

Assembling the code

There's just a single source file this month. As mentioned earlier, it's called october.s and if you want to run it from the Workbench you'll need to assemble it to produce linkable object code (october.o) and then link this to some startup code. Devpac users will probably opt for using the astartup.obj module for this purpose and the basic Blink command line needed in this case will be:

```
blink astartup.obj october.o to october_testprog library
amiga.lib
```

Obviously, you'll need to add file paths to reflect the various locations of Blink and the target files (but you're used to doing this, aren't you?). As usual, I've included a runable version of the example program on disk as well, and to execute this all you need do is double-click on the 'october_testprog' icon!



The example program's window in its collapsed state

The window after activating the zoom gadget

➤

UserPort because this is the message port at which Intuition IDCMP event messages will arrive. This address obviously needs to be available to the event handler and is obtained from the window structure set up by Intuition by using the window pointer in conjunction with a wd_UserPort displacement like this:

```
movea.l window_p,a1
movea.l wd_UserPort(a1),a2      user port address
```

Within the event handler proper two events, namely the user hitting the window's 'close' gadget or selecting a 'Quit to Workbench' menu option, result in an exit flag being set that eventually causes the program to terminate. You'll see from the source that a check is also made for menu events whose code field is set to MENUNULL. This is important since these events are generated whenever a user activates the menu, but then fails to make a selection (such events need to be recognised in order to be safely ignored). The other menu option, incidentally, is just tied to a dummy routine so nothing actually happens when the menu item is selected. This act of tying a menu option to a 'do nothing' routine in this way is actually a very useful trick during development of fully fledged applications. You may have dozens of menu options that relate to code sections that are as yet unwritten, and tying such options to dummy routines allows the event handler and overall structure of the code to be developed, even though many associated routines may not yet be written.

As the corresponding real routines become available, you just replace the appropriate call to the dummy routine with a call to the real version. Another benefit of this type of approach is that it automatically provides an 'incremental testing' pathway. If, for example, your program works fine until you swap, say a... jsr DoNothing call, with a call to a real routine, then you'll know straightaway that any faults that appear are almost certainly connected with the code present in the newly added routine!

Most of the event handling code should be easy enough to follow, but it may help to examine the diagram shown in figure 1. This provides a fairly high-level, general, description of the code's operation in flowchart form.

Listing 1: The event handling code from this month's example program

```
EventHandler        movem.l   d0-d4/a0-a2,-(a7)     preserve registers
                    clr.l     d2                    clear exit flag
EventHandler2       movea.l   a2,a0                 port address
                    CALLSYS   WaitPort,_AbsExecBase
                    jsr       GetMessage
                    cmpi.l    #TRUE,d2              exit flag set?
                    bne.s     EventHandler2
                    movem.l   (a7)+,d0-d4/a0-a2     restore registers
                    rts                             logical end of routine


GetMessage          movea.l   a2,a0       get port address in a0
                    CALLSYS   GetMsg,_AbsExecBase   get the message
                    tst.l     d0
                    beq.s     GetMessageExit        did it exist?
                    movea.l   d0,a1       c         opy pointer to a1
                    move.l    im_Class(a1),d3       copy message class
                    move.w    im_Code(a1),d4        copy message code
                    CALLSYS   ReplyMsg,_AbsExecBase then send message back

                    cmpi.l    #IDCMP_CLOSEWINDOW,d3
                    bne.s     MenuMessage
                    moveq     #TRUE,d2              set QUIT signal to exit routine
                    bra.s     GetMessage

MenuMessage         cmpi.l    #IDCMP_MENUPICK,d3    check message class
                    bne.s     GetMessage            ignore other message types

                    cmpi.w    #MENUNULL,d4
                    beq.s     GetMessage            ignore if MENUNULL
                    lsr.w     #5,d4                 extract menu item number
                    andi.b    #$3F,d4               (will be either 0 or 1)
                    beq.s     DoMenuItem0
                    moveq     #TRUE,d2              set QUIT signal to exit routine
                    bra.s     GetMessage

DoMenuItem0         jsr       DoNothing
                    bra.s     GetMessage            check for more messages!

GetMessageExit      rts                   d2 holds exit flag
```

Listing 2: The tag-based window description

```
tags            dc.l    WA_PubScreen
workbench_p     ds.l    1
                dc.l    WA_Left,300
                dc.l    WA_Top,0
                dc.l    WA_Width,340
                dc.l    WA_Height,10
                dc.l    WA_DragBar,TRUE
                dc.l    WA_DepthGadget,TRUE
                dc.l    WA_CloseGadget,TRUE
                dc.l    WA_SizeGadget,TRUE
                dc.l    WA_Gadgets
gadtool_list    dc.l    NULL
                dc.l    WA_Zoom,zoom_data
                dc.l    WA_MinWidth,100
                dc.l    WA_MinHeight,10
                dc.l    WA_MaxWidth,640
                dc.l    WA_MaxHeight,256
                dc.l    WA_IDCMP,IDCMP_MENUPICK|IDCMP_CLOSEWINDOW
                dc.l    WA_Title,window_name
                dc.l    TAG_DONE,NULL
```

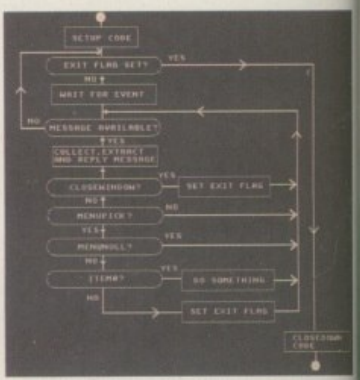


Figure 1: basic program structure in flowchart form

Title bar collapsed windows

With the preliminary program layout discussions now safely out of the way we can deal with the real topic of the month – namely, how to produce windows that initially reside in, or can be made to collapse into, a window's title bar. Perhaps surprisingly, it is very easy to do because all it takes is a few well chosen tag list entries in the window definition.

Firstly, provide a zero WA_Top value and set WA_Left to a value which places the 'window' at a suitable position within the title bar. Then set the Window initial width and height tags, WA_Width and WA_Height, to define a window which has only a 10 pixel height (i.e. the height of a window title bar). For instance:

```
dc.l    WA_Top,0
dc.l    WA_Left,300
dc.l    WA_Width,340
dc.l    WA_Height,10
```

Having done that you then just arrange for the real co-ordinates of your window to be stored as the 'alternate' zoom gadget set. This involves using a WA_Zoom tag in the window definition to identify a pointer to a set of alternate window dimensions that will be used when the window's zoom gadget is selected. These dimensions have to be provided as an array of word (16-bit) entries, so in the example program you'll find this tag entry:

```
dc.l        WA_Zoom,zoom_data
```

along with this dc.w directive which identifies the corresponding set of alternate window co-ordinates:

```
zoom_data   dc.w        150,50,340,200
```

The result? The window opens initially inside the title bar and can be expanded to normal use size by selecting the zoom gadget. You will, of course, be able to see the effect of these statements when you run this month's example program. To get the reverse effect, namely initially having the window open normally, but collapsing into the title bar when the zoom gadget is activated, you just reverse the original and alternate sets of window co-ordinates!

SCANNER

NEW!!!
Artec Colour Scanner
£449.00
COMPLETE WITH CARD CABLE AND SOFTWARE TO ENABLE YOU TO CONNECT TO A PC OR MACINTOSH COMPUTER

FOR AMIGA 1500 TO 4000 COMPUTERS WITH SCSI CONTROLLER (A1200 USER PLEASE PHONE).

CD ROM(SCSI)

SCSI CARD NEEDED FOR AMIGA 600 TO 4000

DOUBLE SPEED	£159.00
QUAD SPEED	£199.00
SIX SPEED	£POA

400 DPI 3 BUTTON ALFA-DATA MOUSE

FOR ALL AMIGA COMPUTERS

£9.99

OKTAGON 4008

True SCSI II controller for your Amiga 1500 to 4000, upgradeable to 8MB using Zipp Ram allows you to connect H-Disk, Syquest CD Roms etc.

£99.00

MULTIFACE III

ADDS 2 SERIAL & 1 PARALLEL PORT TO ANY AMIGA 1500 TO 4000

£109.00

TANDEM IDE

IDE controller card for your Amiga 1500 to 4000 allows you to connect a CD rom of your choice or just another Hard Drive.

Tandem card Only	£69.00
Tandem card & Triple speed CD	£169.00
Tandem card & Quad speed CD	£199.00

EXTERNAL FLOPPY £39.95

AMIGA A600/500 RAM CARDS

Apollo A1230 1230 turbo from 179.00

A600 1MB Ram	£20.00
A600 1MB Ram & Clock	£33.00
A500+ 1MB Ram	£20.00
A500 1/2MB Ram	£15.00

A1200 RAM CARDS

PCMCIA COMPATIBLE(With clock & FPU socket)

0MB	£49.00
2MB	£109.00
4MB	£169.00

EXTERNAL SCSI HDISK

FOR ALL AMIGA COMPUTERS WITH SCSI CONTROLLER

340MB	£199.00
540MB	£229.00
850MB	£269.00
1GIG	£379.00
2/4/9GIG	£POA
SQUIRREL	£54.00

SPECIAL OFFER 2.5" DRIVES

FOR AMIGA A600/1200 COMPLETE WITH SOFTWARE, CABLES & INSTRUCTIONS

60MB	£59.00
80MB	£69.00
120MB	£89.00
340MB	£179.00
510MB	£269.00
850MB	£499.00

3.5" HARD DRIVES

	IDE	SCSI
420MB	£129	£129
540MB	£159	£169
810MB	£189	£229
1-GIG	£299	£399

ALFA-POWER HARD DISK ZIP RAMS

FOR AMIGA A500/500+ £99.00

420MB	£199.00
850MB	£299.00
1 GIG	£349.00

100MB ZIP DRIVE

£199.00

SYQUEST DRIVES

	Int.	Ext.
88MB	£219	£269
105MB	£229	£279
200MB	£339	£389
270MB	£349	£399

BOTH THE ZIPP & SYQUEST DRIVES NEED SCSI CONTROLLER ON ALL AMIGA COMPUTERS

NEW!!!

AMIGA
A600 ACCELERATOR
68020 28MHZ
UPGRADEABLE TO
8MB RAM

£209.00

A2000 ACCELERATOR
28MHZ & 50MHZ with
SCSI Controller
£POA

ACCELERATORS

Viper 68030/28Mhz 0MB	£119.00
Viper 68030/40Mhz 0MB	£189.00
Viper 68030/50Mhz 0MB	£199.00

FPU

Increases the performance of your machine when adding these FPU's. suitable for all Accelerator & Ram cards for A1200 and Amiga 4000 Computers

28Mhz (PLCC)	£24.00
33Mhz (PLCC)	£39.00
40Mhz (PLCC)	£79.00
50Mhz (PGA)	£89.00

MONITORS

Basic Colour	£189.00
Microvitek 1438	£259.00
Microvitek 1440	£399.00
Samsung 15"	£319.00
Samsung 17"	£599.00
Samsung 20"	£POA

MEMORY

	30 Pin	64 Pin	72 Pin
1MB	£27	£N/A	£35
2MB	£89	£N/A	£69
4MB	£109	£199	£129
8MB	£269	£N/A	£269
16MB	£429	£N/A	£399
32MB	£N/A	£N/A	£799

FOR ANY AMIGA OR ACCELERATOR CARD

PICASSO II BOARDS

24BIT GRAHPHICS BOARD FOR AMIGA A1500 TO 4000

Picasso 1MB	£219.00
Picasso 2MB	£239.00

Emplant all versions available from **£229.00**

AT LAST AMIGA IS BACK

AMIGA A1200 (BASIC UNIT)	£399.00
AMIGA A1200 (WITH 65MB HARD DISK)	£449.00
AMIGA A1200 (WITH 80MB HARD DISK)	£469.00
AMIGA A1200 (WITH 120MB HARD DISK)	£489.00
AMIGA A1200 (WITH 170MB HARD DISK)	£509.00
AMIGA A1200 (WITH 340MB HARD DISK)	£569.00
AMIGA A1200 (WITH 540MB HARD DISK)	£669.00
AMIGA A1200 (WITH 810MB HARD DISK)	£919.00

ORDER NOW TO AVOID DISSAPOINTMENT FOR CHRISTMAS

ACCESSORIES

AMIGA A500/600/1200 PSU	£34.95
A500 INT. FLOPPY DRIVE	£30.95
A600/1200 INT. FLOPPY DRIVE	£45.00
2.5" HDISK CABLE	£10.00
2.5" TO 3.5" HDISK CABLE KIT	£15.00
PARALLEL PRINTER CABLE	£6.00
AMIGA VGA ADAPTOR	£15.00
AMIGA TRACKBALL	£35.00
AUTO JOYSTICK SWITCH	£15.00
MOUSE MATS	£2.00

DELIVERY CHARGES

PLEASE ADD VAT ON ALL ITEMS. 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 ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. ALL TRADEMARKS ACKNOWLEDGED.

Gasteiner

126 FORE STREET, UPPER EDMONTON, LONDON, N18 2XA
TEL: 0181-345-6000 FAX: 0181-345-6868

CD181 THE CBM64 SENSATIONS £19.99

REMEMBER THE GOOD OLD GAMES WITH C64 SENSATIONS

C64 Sensations gives you almost 10,000 C64 Megademos with over 600Mb of software, Mega Demos, Games, and utilities for the Amiga and PC computers. The disc has all the latest versions of emulator's for PC and Amiga computers (also contains the full version of the A64 Package v3.0 for any amiga with workbench 2.0 and above workbench & the latest version of Frodo). The Work done here will not only save you months of transfer time but take you on a trip back in time to when the 64 was king. We garuantee you that you not have seen many of these amazing Mega demos as a high amount have not been on general release before. Our C64 experts have spent months of fruitful work preparing this CDROM, converting files from disk, searching through the internet sites, taking to forgotten programmers, and Listening to the HUGE amount of sidtunes provided (also contains latest SidTunes!). Inside the front cover you'll find useful information on how to use this disc on the PC and Amiga computers. The Amiga computers will need a copy of workbench and two blank disks not supplied. You'll also find many new utilities from the major internet sites (PC/AMIGA).

PDSOFT
1 Bryant Avenue, Southend-On-Sea,
ESSEX, SS1 2YD.
Tele sales +44 (01702) 466933 Fax sales 617123
BBS sales (0181) 6655629
NET Sales & info: pdsoft@mymagic.demon.co.uk

CD182 THE COLOUR LIBRARY £9.99

STUNNING NEW MENU SYSTEM WITH POINT AND CLICK MOTUITE DISPLAY FEATURE FIRST FOR ANY AMIGA CDROM TITLE

not only contains the latest graphical PD from all over the world, the Net and BBS sources it also contain over 1,700 clipart & colour image files divided into various categories to aid selection. The files may be "imported" into most of the popular desktop publishers, art packages, viewers and word processors directly from the CDROM. ie, without the need to put them on your hard disk first.
We have included several useful utilities to enhance the performance of this disc. First is FILLY GIF. This allows you to view any of the images on this disc, prior to use. Second is Photovision which is a tured image manipulation and viewing tool from Software Vision Corporation. gram which is also a firm favourite is Envision Publisher which is a top quality fisher, there are of course loads more of the most popular sharewave titles on th come with full instructions for use and where to obtain the full version if require include Animals, Bikes, Birds, Boats, Buildings, Cars, Cartoons, Cats, Computer Dogs, Fantasy, Fish, Flags, Flowers, Food, Helicopters, Houses, Inserts, Maps, Military, Misc, Modart, Painting, Photov, Places, Planes, Raytrace, Scenic, Sci-F Smartart, Space, Sports, Sytar Trek, Swimsuits, Things, Trains, Wars and Women

CD177 HOTTEST AMIGA MEGA DEMOS £19.99

With the 1072 Megabytes Amiga Mega Demos disc gets you hundred of the finest Amiga Mega Demos, includes works from all the major players from the Amiga scene. You'll also find all the latest mods from the latest demo group meets, from around the world, Contains the latest DMS programs and unpacker utilities. There's plenty of stuff on the discs to keep you checking back to them over and over again. You'll find over 2000 floppy disks in DMS formats. Also comes with an easy to use Amiga menu system for unpacking the LHA and DMS files. The disc is BBS-ready with file indexes for various BBS formats.

CD167 ZOOM £19.99

Zoom not only contains the latest PD from all over the country, the Aminet and BBS sources it also contains some exclusive products which will appear on the CD before they appeared in our adverts or any other PD libraries advert. The interface is a custom-written, GUI based design, coded by the author of the famous disk magazine Deadlock. Select the file you want to read about, read the information then click to de-compress! Easy as that. Over 540MB of data, (over 1.1 GIGs of uncompressed files) offering the user access to 1000+ of disks! Must be one of the most comprehensive CD's this year!

* Ground Zero's Themed Imagine Objects
* The latest PD from December to June: Utilities, games, demos, slideshows, education, disk mags and more!
* Over 80 Klondike/Card Games Deluxe Cardsets
* Gathering '95 Demos/GFX/Mods, Other "Party" Demos
* Some Exclusive and New AGA Slideshows
* Over 21MB+ of Magic WB icons, backdrops, drawers etc

CD180 SPECCY SENSATIONS 2 £1

Its truly a multiplatform CDROM with Emulator's for various computer types such as The Amiga, Atari ST, Mac and PC. Contains some exclusive products which ONLY appear on this CD and have never been released before. You get loads of FAQs, Spectrum Techinal FAQs, Games lists, The modified spectrum ROM. Modified interface 1 ROM, other Modified ROMs, Wallpaper pictures for windows (.BMP) and Amiga Workbench (.IFF). Various pictures in .JPG & .GIF formats of :Tape inlays, Spectrum computers, Game level maps, Famous speccy people and over 100 computer s Have hours of fun with the best loved computer from yest pre-paired to spend weeks looking through all the game information, maps, and pictures of this classic computer. choice for anyone interested in the spectrum computer and to convert your own games from tape then this disc will t (req resisted version which is not supplied on the disc).

CD053 PROFESSIONAL IFF & PCX 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, dinosaur's, dogs, insects, and horses. Cultural images from Egypt, Japan, Native Americans, Polynesian, 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 Wallpaper backgrounds for Windows & Workbench v2.0+, Grx utilities, viewers & converter's, Icons and loads of Magic Workbench.

INCLUDES FREE 250 PAGE BOOK
EXCELLENT NEW CDROM & BOOK PRODUCT

CD101 THE SOUND LIBRARY £19.99

Over 1,000 Mb of the best quality Public Domain / Shareware software for Amiga and PC computers. Its the most comprehensive collection of sound related software and musical data to date.
Includes: MIDI files in various formats. Hundreds of Megabytes of excellent music to listen too, (or change/edit them to insert them into your own applications), over 6,500 MODULES or MODS, Over 1,000 VOC files, Over 1,000 WAV files, Over 1,000 Samples and hundreds of ready to run music related software titles, converts, sequences, Applications, drivers, Information, Players. AMIGA ONLY: latest versions of Sound Tracker, Pro Tracker, MED, Noise Tracker, EdPlayer, Rippers, Samplers, Sound Effects Pro Wizard converter's and some much more. PC ONLY: latest version of Whoop-it for windows, Drum Blaster, Tetra sequencer, Blaster Master, Windows sound utilities, Trak Blaster, Accu Music system, Multi Media Jukebox, Cinema, MOD4Win, Music Sculptor, Surfs UP, PC Drummer, and much, more!.

CD112 THE AMINET SET 1 £2

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 1/2 years after its inception Aminet now holds the equivalent of more than 4,500 floppy disks of software! Until recently access to Aminet was restricted to international network users. But now all of the first set can be purchased Consisting of 4 CDs, the complete archive is published for t One of the best selling CDROMS to date and recomended.

THIS SET IS A TOP SELLE

FRED FISH

FRESH FISH £24.99

CD079 FRESH 8 £24.99
CD157 FRESH 9 £24.99

The Fred fish range of CDs are very popular with the avid collector of Amiga public domain. All volumes are double CDs all normally contain the latest commodore NDUK, PasTex, emacs, latest pd utils, games etc

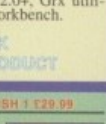
SUBSCRIPTION (GOLD)

SUB12# Every time a Gold CD set is Released (Normally every 6/8 months) we send you it for £19.99 (Requires a credit card or switch no).

SUBSCRIPTION (FRESH)

SUB2# Every time a Fresh CDROM is Released (Normally every 4/6 months) we send you it for £19.99 (Requires a credit card or switch no).

CD010 GOLD FISH 1 £29.99



Fred Fish has been working to supply the Amiga community with high-quality, freely distributable software for the Amiga since the introduction 1985. Contains 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.

CD058 GOLD FISH 2 £29.99

Fred Fish 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 material updated to the latest available versions. All of the material is included in both ported (BBS-ready) and unarchived (ready-to-run) forms.

CD175 AMINET 6 £12.99

AMINETS 1-10 IN STOCK

CD107	AMINET 5	£11.99
CD016	AMINET 6	£12.99
CD201	AMINET 7	£14.99
SUB1#		£11.99

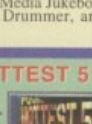
SUBSCRIPTION SERVICE

Get yours on the day of release. or preorder them with this subscription service. credit card is SWITCH cards charged on day of release only.

SUBSCRIPTION (AMINET)

SUB1# Every time a Aminet CDROM is Released (Normally every 3/4 months) we send you it for £11.99 (Requires a card number or switch number)

CD100 HOTTEST 5 / £19.99



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 which describes all the public domain and shareware titles. Contains disks (disks) v1301-v1750, and from 4001-4300. This cdrom covers a variety of Public Domain subjects: Utilities, Games, Mega Demos, AGA, Euro Demos, Demos, Disk Mags, Disk Magazines, Music Titles, Slide shows, Clipart, Fonts, Raw Dance Tracks, Sampled Sounds, Images in IFF, GIF, AGA 256, Images Objects, Textures, Animations, Sound Samples, Music Modules, Colour Clip art, Educational disks, Adult type disks, DPaint anims, Scalable fonts, Programs, Word processors, Graphic utilities, Workbench tools, Magic Workbench icons, Music productions, Hard drive utils, Games, Virus Killers, Video production, Emulators, Fractals, Printer utilities, New Printer drivers, & much more

SUBSCRIPTION (HOTTEST)

SUB5# Every time a Hottest CDROM is Released (Normally every 4/6 months) we send you it for £14.99 (Requires a card number or switch number)

CD052 PRO GIF £19.99

Clip Art Professional GIF contains a huge collection of high resolution GIF clip art image that 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 stunningly 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%

CD028 PROFESSIONAL FONTS & CLIPART £9.99

How about every single font we have ever produced! over 4,000 Adobe type 1 font Files, 2,500 True Type Fonts, Postrex Fonts, IFF Mono /Colour fonts, Pro Page 3T Fonts, Page Setter II Fonts. Also a wide selection of clipart Over 5,000 PCX files, 300 GIF files, 1,000 EPS Format, & 2,379 TIFF files.

CD105 THE GRAPH SATION £19

its a collection of the best Graphics tools, 24bit images, Animations like the famous JUMPGATE (5.7Mb), The Apache 3d helicopter and the Space Animation by Samuel Rees. A huge collection for IMAGINE Users - that will take you years to look though. Anatomy, Animals, Attributes, Botany, Building, Clocks, Food, Furniture, gears, Kitchen, Logos, Misc, music, Outlet, Sports, Text, Toys, Tree_Kit, Weapons. LIGHTWAVE Users objects like: as the imagine section Toys, Tutorial, vehicles, Weapons. 240 ADOBE TYPE 1 Textures section.

CD001 PDSOFT UTILS 1-1500 £19.99

Contains all of our disks 1 to 1500. Subjects covered: Hire Sounds, Modules, pics & Clips music, colour, Edsel, Bars, Gfx & Musics, HD utils, Workbench, comms, Virus killers, Video prod, Emulators, Business, Biz-Gfx, Programming, fractals, Printers, DataBase's, game, related, Animation , home and prediction, hard drive software, cd rom related, Med and Octamed, Design work, Amos, demo makers, Chesss disks, vector objects, dejragers & kick utts, Art disks, CAD, compression software etc

CD182 MEETING PEARLS 2 £9.99

The disc contains the following software: 9Mb file collection of mods - 23Mb developer tools, programmers packages - 45Mb Internet, FAQs, CD contents listings etc - 13Mb Games - 82Mb graphics programs and data - 165b from The Party '94 - 150b various other utils - 80Mb educational software - 46Mb (MIDI) for the Amiga - 18Mb removal programs - 22Mb Assassins - 6Mb Misc programs - 65Mb mod programs - 30Mb pictures - 37Mb Linux for Amiga - 87Mb Fractals - 82Mb Utils, sounddisc - 36Mb movie database - 31Mb archive for Psion - 24Mb modules.

CD19 NETWORK PACKAGE £34.99

The Network CD Sets up a link between a CDTV or CD32 and any other Amiga. The CD32 or CDTV acts as a CDROM DRIVE, allowing access to any of the others cdroms or other info on the network. It sets up a Workbench environment and disables the reset function, allow the CD to be changed & access to any other Mac Contains NComm, Twin, Term and PhotoCD Conversion, and loads of images etc.

CD098 MULTIMEDIA 2 £22.99

its a double disc set aimed at home and education users, business and enthusiasts. The contents include 1 GIG of Clip art images, 650Mb of support files for the applications that have been included, wide up from modelling packages to video editors. Full documentation is supplied, we have included the full Multimedia collection of midi & music S files, samples, modules, tutorials, utilities. The package is sold to well stocked for with 500, 24bit images backgrounds, textures. Over 140Mb of Imagine objects, 30Mb of Lightwave objects, and loads, loads more.

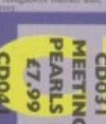
CD115 TEXTURE GALLERY £39.99

1.3 GIG of textures designed for artists. Nearly 1,000 24 Bit textures in numerous file formats including IFF, TARGA, JPEG, PICT, TIFF and SGI. All are represented with thumbnail renderings on 640x400 index images for easy previewing. its perfect for use with 3D programs like Lightwave & can be used to create Bump maps.

CD128 SHUTTLE PEDIA £19.99

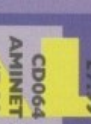
Comprehensive encyclopedia. It has over 3015 GIF images, most in full colour, all royalty-free. It has text files about every mission. Each Shuttle mission is represented, in addition in categories such as the 347 Shuttle Astro, night images on the launch pad, and pictures of the instrumentation. Delve into the history & excitement o

CD165 GATEWAY £9.99



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 a large selection of supplied networking tools. Other supplied packages include a beta release of the X window system (X11R6) for the Amiga, with many additional clients and packages such as pearl, emacs, games, dual processor, and many megabytes of important text files, such as FAQs and FAQS. A complete emulation mode is available on the CD. There are also some AmigaDOS internet utils, such as Ircii for AmiTCP and Ircii.

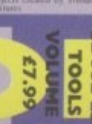
CD100 INTERNET INFO £19.99



Contains a sample of the wealth of information that is available on the Internet. The Internet is the computer network that connects millions of computers together globally, forming a network in which any computer can communicate with any other computer in the world. Over 250 megabytes of text, images, and software are included in this collection. Before you add to your phone bills!

NEW UPDATED VERSION

CD141 THE LIGHT ROM £34.99



Restricting a fascinating area of the computers graphics. Pictures from the computer graphics industry, images created by people all over the world. Objects from Sci-fi films like Tobias I Kitchen Ilion Germany, where detailed objects all a-buzz. Especially his space ships of fantasy fiction films are used to demonstrate the capabilities of a raytracing program. Until now it was difficult to acquire these objects in order to create your own scenes by animations, contains mainly objects created by Tobias I Richter, together with surface textures

CD062 LSD TOOLS VOLUME 1 £7.99

CD016 AMINET 2 £7.99

CD030 AMINET 3 £7.99

CD064 AMINET 4 £7.99

CD007 ULTRA MEDIA 1 & 2 £7.99 each

CD031 MEETING PEARLS 1 £7.99

CD045 RAY TRACING 1 £7.99

CD040 RAY TRACING 2 £7.99

CD065 17 BIT PHASE 4 £7.99

CD SCENE 1 £7.99

CD110 GAMERS DELIGHT 6 7.99

CD070 POWER GAMES £7.99

CD026 LOCK-N-LOAD 9 £7.99

CD043 WB FONTS £7.99

GRAMMING & TECH

GNU C++ COMPILER (ABC)
...ion of the latest version of the GCC envi...ch compiler, debugger, assembler, linker, head...ibrary of library calls. Req HD

DICE C COMPILER (AB)
...ull featured, powerful C compil...ation system.

HOW TO CODE IN C (AB)
...ics, Intuition and Graphics. Kickbitstick, ...ersion AutoFocus!, Dos Intuition, ...ibrary, Workbench and Power Source.

KICK V37 (ABCD)
...ommodore Native Developer Update Kit ...ded to upgrade distributions. Includes the ...ew include files, and tools.

PROGRAM LANGUAGES
...ven BASIC-esque compiler, in com...ilot & Blink produces stand alone exe...ust ensure shared libaries are required.

PASCAL
...ly needed to program in Pascal. ...ful member. Blink (Linking software ...ecial add on compatible.

THE AREXX GUIDE
...ou've always need some sort of refer...book is for you. Do is a highly compre...ve arexx programming language Arexx ...ded to make programming is easy to use ...ent programming information.

AMIGAGUIDE
...ll version of the AmigaGuide ...ader Tool Commodore. Contains develo...ibraries, Commodore, Req WB2.0

AZTEC C V5.2 (ABCD)
...ew professional version of the ...ommercial Aztec design suite. ...ed to distribution ...ed manuals, Binary, WDisplay.

AZORHO V1 (ABC)
...he latest update on the public domain ...ho text editor that I am aware of.

DEVELOPER
...ll Commodore developers kits for the ...ntosh emulator.

AREXX PROGRAMS (AB)
...ge sweet useful Arexx programs and ...ll be taken of most basic utility.

DAT TOOLS V2.2C
...ll dated routine library which makes it a ...ogram to read and write many ...ent types. Supports most of ...ed with CBM's style guidelines in mind.

SOLDERING
...ing electronics as a hobby or ...ers. To this contains quite a number ...ams and board types in the form of IFF ...ed programs.

CIRCUIT BOARD DESIGN
...ram for the electronics enthusiast. ...ircuit board design tool. LogicLab, ...ulator v2.0, a new release of this PD ...ded with an easy to use drawing ...ponent circuit

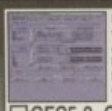
ELE_CIRCUIT BOARD
...ram to aid highly accurate tool for ...ing out number of component types and ...ed. Supports most of the ...ent types as well as PCB track layouts as well.

DIGITAL BREAD BOARD
...ram for designing special circuits. ...ently supports 2 and 3 input ...ates, 4 bit adders, 4 bit ...ers, 4 bit counters, 4 bit ...ers, 4 bit ...ers, 4 bit ...ers

EPIC MARKETING AMIGA SOFTWARE

A powerfull set of cataloging tools. Catalogue your Record, CD, Video and disk collection with ease, and search on any aspect or field.
Suitable for use with Kickstart 2 & 3 only.
Only £5.00

☐CTG5-3. CATALOGUERS



Professional graphics converters, can convert graphics between the Amiga, PC, Mac & Atari ST. Supports GIF, TIF, IFF, PCX, BMP etc.
Kickstart 2 or recommended.
Only £5.00

☐GFC5-2. GRAPHICS CONVERTERS

A six disk collection of Video titling tools, video wipes, fonts, Video titlers, Subtitle generator, Video backdrops etc.....
Suitable for use stand-alone or inconjuction with Scala etc....
Only £12.00

☐VID12-6. VIDEO TITLING TOOLS

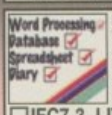
A collection of essential hard drive
nance tools. Like: disksalve 2, HDb
HD Menu system, Virus Checker, a
dozens more.

Only £5.00

☐HDT5-2. HARDDISK TOOLS

Dozens of easy to follow recipies.
If your a budding Ian Beele or Floyd then this gourmett cookbook is just the thing for you. You'll be a professional in no time.
(Be sure you test your cooking on your In-laws first!) Only £3.00

☐GCB3-1. GOURMET COOKBOOK



Little Office consists of a powerfull Wordprocessing package, a spell checker, A diary system, a name and address database, and a powerfull spreadsheet. Compatible with all Amiga's but Workbench 2 or 3 is recommended. Only £7.00

☐IFC7-3. LITTLE OFFICE

Around 100 scalable compugraphic fonts for use with Wordworth2&3, Pagestream, Workbench 2&3. High quality printout from 5point upto 100point.

Only £7.00

☐PSF7-3. COMPUGRAPHIC FONTS

If you've just got a new A1200 hard
then to prep & install it correctly you
the correct software. This software
supplied on 2 disks. The first preps
tions your harddisk, the second ins
Workbench correctly. Only £7.00

☐AHD7-2. A1200 HARD DISK INSTAL

Now the weather is Okay it's time to put on your shorts and dig the garden. Now the best way to get out of doing this is to use the excuss that you are far to busy designing the garden to actual do it!.
Only £3.00

☐GRN3-1. 3D GARDEN DESIGNER

If you like a little flutter now and then but don't like loosing *real* money the this is for you. The Amiga Betting shop contains four great gambling games. Roulette, Fuit machine sim, Horse racing etc.
Only £6.00

☐ABS6-4. AMIGA BETTING SHOP

Mono Pagesetter clipart contains hundreds of great mono clipart images for use in any version of Pagesetter. Subjects include: Animals, People, Transport, Hi-tech, Computers, Sports, etc....
Only £3.00

☐MPC3-1. MONO PAGESETTER CLIPS

An essential collection of disk recov
salvage tools for Workbench 1.3, 2
Weather a floppy of your Harddisk
cieved an error this package will se
allright. Easy to use.
Only £5.00

☐DRT5-2. DISK RECOVERY TOOL

There are over 1000 Amiga viruses currently "doing the rounds". So catching one isnt a hard thing to do. This collection of Virus killers is updated regularly, So you can be sure you'll be able to detect and kill all known viruses. Only £4.00

☐VIP4-2. VIRUS KILLERS

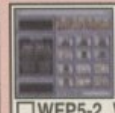
Girls, Girls, Girls is packed with full colour "GIRLY " pictures. all AGA 256 colours, suitable for the A1200 or A4000.

Only £6.00

☐GRL6-3. GIRLS, GIRLS, GIRLS

Miscellanous colour clipart images. Around 100 in all covering: cats, dogs, cars, trees, planes, boats etc...
Suitable for use in any Paint or Desktop Publishing package.
Only £9.00

☐CCP9-5. COLOUR CLIPART



Word finder Plus is the most power
AMiga crossword solver available
Can solve anagrams, crosswords e
tains a dictionary of over 50,000 En
words, and you can easily add you
Only £5.00

☐WFP5-2. WORD FINDER PLUS

If you've got a tempremental Amiga the The Engineers Kit is what you need. You can test your Drives, Your Hard disk, Memory, Keyboard, Sound chips, graphics chips, Mouse, joysticks etc....
Only £3.00

☐ENK3-1. ENGINEERS KIT

Over 130 top quality colour images from the Lion King cartoon film. Each image is stored as ready to use IFF so can be imported into ANY paint or Desktop publishing package.

Only £6.00

☐LKA6-3. LION KING CLIPART

Magic Workbench is an inavative replacement Workbench. Gives you a completley new 8 colour updated Workbench. A hard disk is highly recommended. Various extras disks are available seperatly.
Only £3.00

☐MWB3-1. MAGIC WORKBENCH

A new two disk set of Workbench
bathing babes Backdrops all in 128
colours, suitable only for Workbenc

Only £5.00

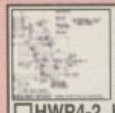
☐WGB5-2. WORKBENCH BACKDR

Play hundreds of classic Spectrum 48 games on your Amiga. This very easy to use Emulator will run on every Amiga, The faster your machine the faster/smoother the games run..... Games include: Skool daze, Manic miner, Little computer people, Monty mole, Startrek, The Sentinal, etc...
Pack1. (SPE5-3) **Speccy em & 50 games.** Only £5.00
Pack2. (SPG15-7) **100 classic games.** Only £15.00
Pack3. (SPG35-33) **400 classic games.** Only £35.00
Pack4. (SEH40-1) **Speccy em, 50 games and tape deck interface.** £40

☐SPECCY EMULATORS

The disk doubler can liturally double the space available on your hardisk. If you've got an 80mb drive you'll end up with over 130mb. If you've got a 320mb drive you'll end up with over 1/2gig hard disk.
Only £5.00

☐EPU5-2. DISK DOUBLER



An updated 2 disk version.... Contains dozens of DIY hardware kits, like how to fit your A1200 into a mini tower PC case, build your own sampler, memory expansion, CD32 Link lead etc, etc.
Only £4.00

☐HWP4-2. HARDWARE PROCESSES

Three Stratrek games. Includes: Str
the Arcade game. Stratrek TNG, an
Original Startrek. Decompresses to
disks.

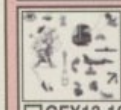
Only £6.00

☐STG6-3. STARTREK GAMES

Centrefold Squares is an original Adult puzzle game featuring digitized graphics. At this price, don't miss it.

Only £5.00

☐CFS5-1. CENTREFOLD SQUARES



The Professional mono clipart collection consists of 10 disks featuring hundreds of VERY high quality mono images. All the most popular subjects are included like: Xmas, Animals, Transport, People, Eyecatchers etc. Only £13.00

☐GFX13-10. PRO. MONO CLIPART

Contains Three superb easy to use Typing tutors for the Amiga. Suitable for the complete beginner or anyone who at the moment types with one or two fingers...

Only £3.00

☐TYP3-1. TYPING TUTORS

Play poker with some of the most C
and unatractive woman in the Worl
Includes digitised graphics and spe
for Over 18 only....

Only £10.00

☐DSP10-1. DELUXE STRIP POKER

A huge collection of top quality professionally finished 3D Lightwave objects. Includes : Soul Hunter, Delta fighter, Vorton space craft, B5 Station, 2 jumpgates, Nebular space dust and more. Requires Lightware.
Only £7.00

☐BFO7-4. BABYLON 5 OBJECTS

With this language tutor you could learn to speak either SPANISH, FRENCH, GERMAN, ITALIAN OR JAPANESE. Easy to use, and easy to understand????

Only £8.00

☐LTP8-4. LANGUAGE TUTORS

Basically this is a 3 disk compilation of tools which should really have been on Workbench. eg: Virus Killer, Fast text editor and displayer. Menu system, File manager, A few Workbench games and more.
Only £7.00

☐SCF7-3. STUFF COMMODORE FORGOT

Text Engione V4 is the easiest to u
Wordprocessor package available o
Amiga. It even includes a competent
check feature.
Suitable for all Amiga's.
Only £3.00

☐TXE3-1. TEXT ENGINE

Every Amiga Emulator includes emulators for : Gameboy, Commodore 64, Commodore VIC20, Various IBM emulators, Spectrum emulators, Sinclair QL, Atari ST etc.
Only £5.00

☐AEP5-3. EVERY EMULATOR

Hundreds of Very high quality professionally finished colour clip fonts for use in any Paint package. Excellent for Video work, demo making etc.

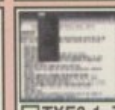
Only £5.00

☐CCF5-2. COLOUR CLIP FONTS

A new replacement 2 disk Workbench that features: Startrek Icons, Backdrops, and amusing sound samples whenever you do anything wrong.

Only £5.00

☐TNG5-2. NEXT GENERATION WB



Classic Board games includes Amig
tions of Scrabble, Monopoly, Cluedo
Backgammon, Chess, Othello, Tiles
Tac-Toe, Cribbage etc.

Only £10.00

☐BDG10-4. CLASSIC BOARD GAM

100 high quality Amiga Bitmap fonts. Suitable for use with almost any Amiga package, Including DPaint, Workbench, etc Font sizes start at 6pt upto 50pt.

Only £7.00

☐FNT7-3. FANTASTIC FONTS

Get your finances in order with this unique collection of home finance software. Keep track of your monthly outgoings: Petrol, Gas, Electricity, Mortgage, Rent etc....

Only £7.00

☐FIN7-3. HOME FINANCE

A collection of Lottery Winners. Help your self beat the Lottery with this superb disk. Every week let your computer generate the Winning? numbers. If you play the Lottery then get this disk.....
Only £5.00

☐LWP5-1. LOTTERY WINNERS

Arcade classics V2 contains variou
classic games like: Space Invaders,
Frogger, Missile command, Asteroi
Berts, Omega race, Centrepede etc
Suitable for any Amiga.
Only £5.00

☐ARC5-2. ARCADE CLASSICS 2

Amiga Power tools includes dozens of the most usefull & most powerfull utilities available. Virus killer, text editor, Menu maker, Sound & grapghis tools, and loads more. Requires Workbench 2 or 3.
Only £5.00

☐ATC5-2. AMIGA POWER TOOLS

Password protect you valuable Hard drive information with this extensive and easy to use Password and File encryption tool.

Only £10.00

☐PSW10-4. PASSWORD SYSTEM

A collection of over 100 popular and more unusual printer drivers. Supports the canon, Panasonic, Star, range of printers aswell as undreds more....
Very easy to use installation procedure.
Only £3.00

☐DRV3-1. PRINTER DRIVERS

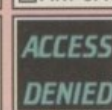
If you've just purchased your Amig
may be a bit boggled how you use
ly, Well this five disk set take you th
the CLI/Shell, Workbench step by s
showing you every thing you need t
Only £9.00

☐ABG9-5. AMIGA BEGINNERS GU

Our Catalogue disk contains information on over 4000 public domain disks, CD-ROM titles, Packs, and ordering information.

Only £1.00

☐CAT1-1. CATALOGUE DISK.



Classic card games consists of around a dozen superb card games like Poker, Solitaire, Craps, Montana, Pontoon, Blackjack, Klondike, Spades, Golf, Rummy and more.....
Only £10.00

☐CRD10-4. CLASSIC CARD GAMES

Essential for Beginners is a collection of files essential for the smooth uninterupted use of your Amiga. All the most asked for libraries and Viewers are included like More, Muchmore, PPmore, etc
Only £2.00

☐EFB2-1. ESSENTIAL FOR BEGINNERS

Startrek Magic Workbench backdro
An interesting 2 disk collection of M
Workbench Startrek 8 colour backd
If you love Startrek you'll love these

Only £5.00

☐STB5-2. STARTREK MAGIC WB

EPIC Marketing
Victoria Centre,
138 Victoria Rd,
Swindon, Wilts.
SN1 3BU. UK

Mail Order Hotline.
E MAIL epic@epma.demon.co.uk
01793 490988
Fax Order line. 01793 514187

The EPIC Collection CD

The EPIC Collection CD ROM contains all the above titles and hundreds more. All DMSed onto an inavative GOLD CD ROM which you can update..... (see our CD add for details) ***CD100*** £5

Available to buy No

The Amiga Format

Your essential guide to Amiga gaming

Reviewed:

Super Street Fighter 2

Greeted with open arms - US Gold finally get around to releasing their long-awaited sequel

Gamer Gold Compilation

Nick Faldo's Golf, Bump 'N Burn and Jetstrike all make a joint appearance on Grandslam's latest CD32 package

Brutal: Paws of Fury

Gametek's Brutal gives a new dimension to violence. Have you ever wondered if your pets have a violent streak?

Gloom

Will a perfect Doom copy ever appear on the Amiga? Guildhall hold the best effort yet. Anyone else?

Budgets

Those of you who are a bit strapped for cash can check out four new budget releases

Features

Tiny Troops

We preview Mindscape's latest strategy puzzler. Will it be as successful as Cannon Fodder?

Citadel

Two Doom clones in one issue! Arrakkis Software from Poland are the second guilty party

CD-ROM Games

We give you the low-down on CD-ROM compilations. For $20, you could pick up 500 bargain games

Center Court

A tennis game? At last, the summer is nearly over and we've got a tennis game!

By Tina Hackett

Don't give a FAQ

Team 17 have just become one of the first UK games companies to establish a presence on the World Wide Web. Following the news last month that Team 17 have just set up their On-line games division, they have now announced their new site which can be located at http:/www.team17.com/.

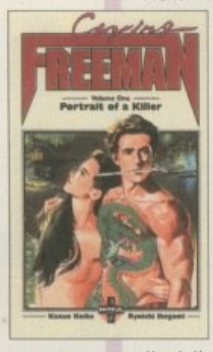
It contains everything from a Team 17 softography to The Team 17 Times – a newspage containing details of all their forthcoming releases. It will also have a demos page with both PC and Amiga demos of old and new Team 17 titles, and an FAQ page which answers all those burning questions people have always wanted to ask them.

You will also be able to download hints and tips and view a letters page which allows browsers to e-mail them and then see the letters on the Team 17 web pages.

Team 17 are located at http:/www.team17.com/

Mortal Manga

Manga Publishing, responsible for such titles as The X-Files, Tank Girl and Street Fighter 2, have just announced the release of their new monthly comic, Mortal Kombat. For 95p, fans of the license will be able to catch up on character profiles, fan trivia and competitions. This has been timed to coincide with the film, so followers of the beat-'em-up will also be able to catch the movie this Autumn starring Christopher Walken.



Manga Books are releasing the Japanese comic book hits in paperback

Also on the subject of Manga is the latest news that they are launching Manga Books, with the first five titles being, AD Police, Appleseed Volume One, Crying Freeman Volume One, Dirty Pair: Bio hazards and Bubblegum Crisis.

Manga video clips are also the latest trend to be used in music videos. Following an agreement between Manga Entertainment and record company TVT (they who launched Nine Inch Nails), one of their American bands, KMFDM, are using Japanese animation in their latest video. Patlabor 1 has been used, intercut with footage of the band. Another musician to use this is Michael Jackson who used Akira and Vampire Hunter D in his latest single, Scream. And over here, the British animation studio in Newcastle-Under-Lyme has produced the comic-book-style animation in U2's Hold Me, Thrill Me, Kiss Me, Kill Me video

Mortal Kombat fans can catch up on the news in Manga Publishing's latest magazine

No business like show business

The industry's bi-annual bash is all set to take place at the Grand Hall Olympia. The European Computer Trade Show plays host to many exhibitors from all over the world who take the opportunity to show their latest hardware and software. This Autumn's event is set to attract a record number of visitors, and exhibitors will include Warner Interactive, 21st Century and Virgin.

AUTUMN 95 ECTS

The European Computer Trade Show is the platform for the latest software and hardware

Cheap thrills

Guildhall Leisure and CDS have two more games to add to their strategy war games series. One is Subversion, where you play the Commander of attack submarine 'Nautilus'. You have only two ships and by careful management of your resources, must obliterate all enemy vessels.

Their other is Bravo Romeo Delta, where you have to take command of the US Strategic Forces just before a Soviet Nuclear Attack. You must defend your country and at the same time plan a Counter strike.

Both releases will be available this August, priced at £9.99.

Play the Commander of an attack submarine

Bravo Romeo Delta provides serious war simulation

Bug free

The good news for all Sensible World of Soccer fans is that it has now been fixed and the bugs removed. A bug free version of Sensible World of Soccer will soon be in the shops and those who bought the original and sent off the registration card should receive their new copy very soon.

Speed freaks

The rumour mill has it that yet another Street Fighter game is in the pipelines to follow Super Street Fighter 2. Called Super Street Fighter 2 Turbo, it's not actually being developed by US Gold, the company behind the previous titles, but a totally different team. Gametek, the company behind Frontier, Elite, and other classics have undertaken the task and this particular edition has already proved very popular on the PC.

An Autumn release is planned and as yet, Gametek are reluctant to reveal too much. Therefore, we can't tell you what the differences will be but graphically it should be quite impressive and will play with some terrific speed.

A sequel to Super Street Fighter 2 will follow

Plane spotters

Flight sim fans will be pleased to learn of Thalion's latest release, Approach Trainer. Rather than using all the aspects of flying, Approach Trainer, as you've probably guessed, teaches the art of approaching an airfield. It's not everyone's idea of heaven, admittedly, but for those who are after an accurate simulation – including accurate ILS Approach Charts – then this is for them.

Approach Trainer won't suit action fans but those who want an authentic simulation should keep an eye out for it soon

Piloting the aircraft, you will have many different problems to overcome such as day and night approaches, variable weather conditions, and long and short approaches. The game is out at the moment and is available for £29.99.

Fantasy football

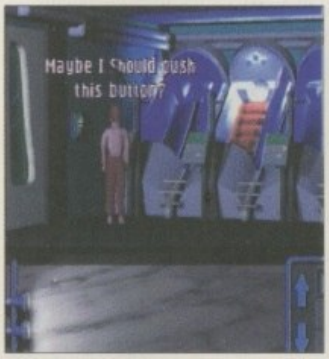
Domark's in-house development team, The Kremlin, are working on a new football game. Called Total Football, it promises to 'look as good as it plays,' and features will include all-weather matches, multi-directional scrolling and action replays. Players can also take their pick from 50 teams and can take part in International and World Cup Competitions.

Visually, it should be quite impressive with over 2500 player animation frames and over 50 player movements. An animated crowd and atmospheric sound effects will add authenticity. Expect a release around Autumn time.

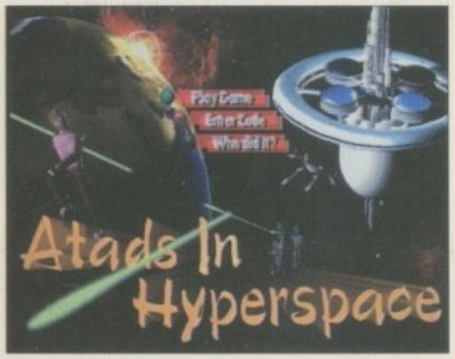
Domark's Total Football promises to be visually impressive

Weird things in hyperspace

Curious things are happening in Norway. This morning's post contained a letter from a new Norwegian team called Borderline Developments and screenshots from their hopeful new offering 'Atads in Hyperspace' (what 'Atads' actually are is anyone's guess). It's an AGA adventure which will feature a raytraced intro and will be available for the A1200, A4000 and CD32. At the moment they are considering making it CD-ROM only because of its size. As of yet we no little more than this about the new team, but hopefully we'll bring you a full review soon.



Atads in Hyperspace promises to be visually appealing



Unfortunately, we don't no much about the game at this stage – but a safe bet is that it takes place in space

SYSTEM

review

GRAPHICS 50%

SOUND 48%

GAMEPLAY 80%

OVERALL 75%

PUBLISHER
US Gold

DEVELOPER
In-house

PRICE
TBA

DISKS
6

HD INSTALL
Yes

SUPPORTS
A1200

Following hot on the heels of all the hype surrounding the film, the latest addition to the Street Fighter titles is finally here for the Amiga. Called Super Street Fighter 2, it features four new players each with an additional setting. Now you will also find Cammy (played in the film by Kylie Minogue), Dee Jay, Fei Long and T Hawk, plus all the old familiar ones. They have also been improved with extra moves and new touches.

However, the first thing that strikes you when you load up the game is how dated it all looks. A few years ago this would have been quite acceptable but now after Mortal Kombat 2 and Shadow Fighter have passed, it does look its age. And a very amateur introductory animation is quite laughable. But the gameplay is what counts and this, fortunately, works well.

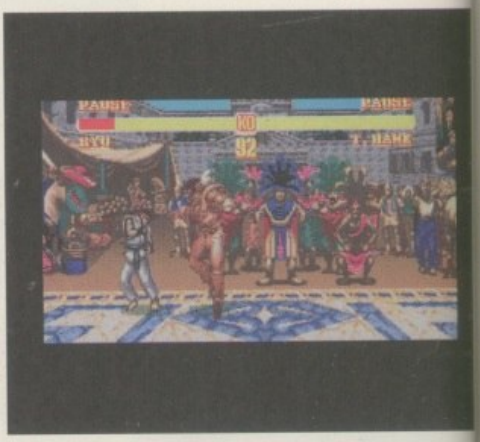
You can either play against the computer, choosing the level of difficulty, or a human opponent chosen from a number of characters. Each has their own set of special moves which are surprisingly easy to execute. The moves can be put together to perform a number of 'hit combos' and each character is different enough to provide varied gameplay. E Honda, for example, is a large character who relies on his bulk, whereas Cammy is small but agile and has lightening fast reactions.

Why did they leave this appalling intro in?

The game can also be dramatically altered by changing the speed you play at. The Turbo option can be turned up to high which speeds everything up – including the music – and means you have to think fast and move quickly to avoid the blows from other players.

What is particularly nice about this game is that it supports a joypad. This works a lot better than using the one-button joystick as you get

You can pull off a satisfying range of moves



Black borders become irritating after a while

Move closer

Super Street Fighter allows you to put a very able combination of moves together. Each character has a good range of kicks, punches and special moves.

Dhalism – the stretchy limbs of Dhalism allows you to attack your opponent and keep out of their reach.

Blanka – uses electricity to keep his opponents at bay.

Chun Li – despite being one of the smaller fighters, this works to her advantage as she can move quicker than, say, Zanglef.

E Honda – uses his sumo size to launch his powerful weight against his rivals.

Battle of the beat-em-ups

Super Street Fighter 2 as it stands is a good, playable title, but compare it to the likes of Mortal Kombat 2 with its bloodthirsty graphics or Shadow Fighter and it does start to look rather limp. Mortal Kombat 2 managed to create an authentic atmosphere and had some fantastic and original special moves.

Shadow Fighter was also a particularly rewarding and addictive game, with well-designed characters which looked very clear and detailed for this type of action.

The static backdrops fail to impress

Super Street Fighter 2

Reviewed by Tina Hackett

separate button for either a punch or kick. You can also use a two-button joystick on this same principle.

As I mentioned before, though, the graphics are very dated – such as the bland backdrops which don't do anything to create atmosphere. And what's worse is that they look flat and two-dimensional and there's been no attempt to make them interesting with the use of animation. Okay, so this may have slowed the game down but other games manage this successfully and it would certainly have made for a more polished looking title.

Another flaw is the size and detail of the characters themselves. I'm sure they've been intricately designed but they're just too small too see any detail or, sometimes, what is going on properly. Huge black borders around the screen don't help matters either and although you can change the screen mode from Pal 50 hertz to NTSC 60 hertz to speed things up and get rid of some of the blackness, it never disappears completely.

Music and sound effects don't really enhance the game either, with feeble death noises and dismal music. Oh, and some of the characters have some very strange verbal expressions when they launch an attack, such as 'Had-o-ken' or some other weird saying which does nothing to increase the competitive atmosphere. However, what really let the game down was the amount of disk swapping involved. Thankfully it is hard disk installable, otherwise it would be completely unplayable with a ridiculous six disks to access each time.

The many characters available keep things varied

Final word

After reading all this, it may sound like the game is a complete letdown. This isn't the case. Yes, it does have quite a few negative points but when it comes down to the gameplay it works extremely well – especially if you have a joypad. Two-player mode works particularly well too, and there's never a situation (unlike Rise of the Robots) where you can corner your opponent and bash them to death with the same tedious move.

An A500 version is also planned, although this won't support a joypad. We'll bring you an update on this in a future issue.

> 'SSF 2 does have a few negative points but when it comes down to gameplay it works extremely well – especially if you have a joypad'

SYSTEM

review

> ‘Nick Faldo’s Championship Golf was released rather a long time ago and received a **highly creditable** award in most magazines’

Gamer Gold

CD32

Reviewed by Andy Maddock

GRAPHICS	81%
SOUND	76%
GAMEPLAY	83%
OVERALL	84%

PUBLISHER
Grandslam

DEVELOPER
Grandslam/Rasputin

PRICE
£29.99

Squirrel?
No

The Gamer Gold is a compilation courtesy of Grandslam, containing Jetstrike, Bump ‘n Burn and Nick Faldo’s Championship Golf. A flight simulation, racing game and a golf game? Will it work?

Firstly, Jetstrike was released about a year ago on the CD32 format. It was basically a flight sim that adopted a different way of playing. Instead of the usual cockpit view, Jetstrike was viewed side on – a lot like Choplifter from many years ago. The idea is to select an aircraft from a huge array and take it through many different selected missions. These range from taking recon photographs of the enemy’s positions to landing on the opposing side’s runway to rescue some hostages.

The floppy disk version, which was released around two years ago, was very difficult as well as being slow and jerky. Fortunately on the CD32, none of these problems have been resurrected.

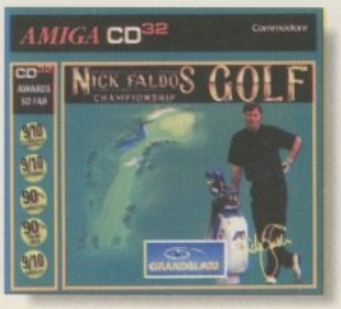
You can select from a vast amount of planes and helicopters, and every plane you could possibly think of exists within Jetstrike. Spitfires, Falcons, Vulcans, Bombers, and Apaches are all available for selection. Jetstrike is well presented, has good gameplay and packs a real challenge. Certainly a good start for a compilation. Nick Faldo’s Championship Golf was released rather a long time ago and received a highly creditable award in most magazines. On the CD32 format, nothing has changed – it’s still one of the most playable and realistic golf games available. The new instantly recognisable feature is the caddies. Although they made an appearance on the floppy version, they weren’t that much use.

Now though, they will gladly hurl abuse at you or praise your shots extremely vocally. Bill, the particularly sarcastic caddie, will do anything to make you angry. The actual animation of Nick Faldo taking the shot has improved too. On the whole, all the graphics seem to have had a tweaking to iron out any glitches. What makes it a pleasure to play is the fact it does play like real golf. There are plenty of challenges and courses to keep you going.

Bump ‘N Burn isn’t that well known among Amiga owners – I’m sure only a handful have actually played it. I think it was released when racing games were in their prime, and because of this Bump N’ Burn didn’t even get a sniff.

Basically, it’s a racing game whereby you have to survive the Bump ‘N Burn championships. There are several tracks of Toonia’s seven kingdoms and through these you will be expected to get better and better until you are ready to compete against Count Chaos – the unbeaten champion.

Bump ‘N Burn is nothing special. The graphics don’t particularly boast quality, and it doesn’t run as smoothly as it should, but as it’s on a compilation with two other great games, you can’t really complain – not for £29.99 anyway.



EPIC MARKETING
CD ROM SOFTWARE

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

EMULATORS UNLIMITED NEW!!! (CD117) £19.99

Retro gaming at it`s best. Over 3000 all-time classic spectrum games on one CD-ROM. Emulators included for the Amiga, Mac, Atari ST & PC (dos & Windows). Games include Manic Miner, Skool daze, Monty mole, Startrek, Thrust, Jet Set Willy, The Hobbit, Strip Poker, Danger Mouse, The Sentinel, Micro Olympics, Under Wurlde, Uridium, Atic Atac, River raid, Barbarian, Hunchback and over 3000 other classic spectrum games including *multi-load* games. Speccy part deux also contains hundreds of documents containing instructions for most games aswell as hundreds of speccy game cheats. Suitable for all platforms but requires the use of a keyboard to play the games.

SPECCY SENSATION 2 OUT NOW!!! (CD119) Special £17.99

ADULT SENSATION 2 THE NEW BATCH

Adult Sensation 2 features a whole new batch of exciting new Adult material including Thousands of graphic images, hundreds of Adult/sexy sound samples in WAV,IFF & VOC, Adult stories, comical sketches, Hundreds of Adult jokes, stories of either weird,sick or adult animations in FLI & ANIM. Adult sensation 2 also contains around a dozen original adult music modules and feature sexy samples. Not one for the faint hearted.. IN STOCK NOW (OVER 18)

NEW!!!

ADULT SENSATION 2 The new batch (CD115) £19.99

World of Clipart is a double CD-ROM containing around 40,000 mono and colour clipart images contained in over 100 catagories in IFF, GIF, PCX, CDR, EPS, TIF, & BMP. Tools for converting images to another format are included for both the PC & Amiga. Subjects include: Animals, Anatomy, Babies, Men, Women, Trees, Flowers, Insects, Xmas, Religious, Planes, Vehicles, Ships, Maps, Zodiac signs, Eye catchers, Humour, Cats, Dogs, Computers, Technology, Sealife, Space, Symbols, Royalty, Dinosaurs, Plants, Nature, Ads, Tools, Astrology, Hands, Feet, Business, Office, Workers, Cartoon, Lion King, Occasion, Food, Gardening, Holidays, Houses & Buildings, Designers, Children, Banners, Medieval, Military, Monsters, Music, Sports (football, golf, Aerobics, Olympics, etc), Transport, Trains, War and more.

WORLD OF CLIPART *Plus* DOUBLE CD (CD77) £17.99

Essential utilities is a collection of the most useful tools available. Categories include: graphics converters, text, music tools, Printer drivers, Virus killers, memory utilities, Emulators, Business applications including Wordprocessing, database, spreadsheets, diary systems etc. Also features over 3000 high quality adobe & truetype fonts.

ESSENTIAL UTILITIES Volume One (CD74) £9.99

SCI-FI Sensation is an exciting new CD-ROM containing over 1GIG of SCI-FI images, animations, 3D objects, Sound FX, Documents, Themetunes, Scripts & SCI-FI games. Subjects included are: Babylon5, Startrek (The original, TNG, Deep Space 9 and Voyager), Batman, Dr Who, Thunderbirds, Robocop, Sea Quest DSV, Bladerunner, Aliens, Terror hawks, 2001, Blake7, Battlestar Galactica, Tron, Total Recal, 2010, Space 1999 etc. SCI-FI Sensation also includes hundreds of miscellanous 3D space craft objects, Hundreds of miscellanous SCI-FI images, sound fx, SCI-FI music and more.

SCI-FI SENSATION DOUBLE CD (CD118) £19.99

Graphics Sensation is a collection of the best graphics tools, 24bit images, animations and Imagine & Lightwave objects. 3D objects categories include: Space (Startrek, Babylon5, robots etc) Animals, Aviation, Home (Bathroom, Kitchen, furniture etc), Botany, Clocks, Computers, Earth, Food, Toys, Trees, Musical instruments, Phones, Sports, Vehicles, etc. Plus hundreds of texture files.

GRAPHICS SENSATION (CD02) £19.99

The Professional Backdrops & Icons collection Volume 2 is a superb set of high quality Desktop backdrops (256 colour picture subjects include: Girls, Space, Classic cars, Aircraft, Landscapes, textures etc.) aswell as a huge 16 colour backdrop set of pictures, aswell as Thousands of Icons, and Dozens of Screen Blankers and Desktop tools. For the Amiga there is a massive collection of Magic Workbench extras, including Icons, backdrops, & dock icons.

NEW!!!

PRO. BACKDROPS & ICONS 2 (CD111) £19.99

Over 7,000 top quality colour images. Subjects include: cats, aviation, animals, people, hi-tech, space, cars, trains, textures, nature, sports, pinups, boats, flowers, plants, seasons, birds, technology, raytraced, cartoons, fantasy, art, reptiles and dozens more subjects.

The perfect CD for presentation, and Desktop publishing work.

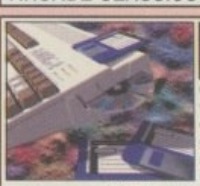
GIF SENSATION NEW!! DOUBLE CD (CD128) £19.99

This original time table includes over 6,000 stories covering key events in business, politics and media from the Trojan horse to Desert Storm. Stories are linked to exciting multimedia effects, including hundreds of graphics, sounds, maps, & charts. Every word in every story is *hot-linked* to all other stories with the same word. Just click & go. Another superb multi-media encyclopedia.

TIME TABLE OF HISTORY (CD129) £14.99

Arcade Classics is an original collection of ALL your old arcade favourites, Including Amiga & PC veriations of : PACMAN, SPACE INVADERS, ASTERIODS, MISSILE COMMAND, PENGO, FROGGER, LOAD RUNNER, GALAXIANS, DONKEY KONG, NUMEROUS TETRIS GAMES, BATTLEZONE, TEMPEST, COMBAT, TRON, SPACE WARZ, THRUST, Q-BERT, HUNCHBACK, MOON PATROL, TRAIL BLAZER, BREAKOUT, CENTREPEDE, CYCLES, BEZERK, SNAKE, SCRAMBLE, PING PONG, BREAKOUT, NUMEROUS C64 CONVERSIONS, A COLLECTION OF JEFF MINTER GAMES AND HUNDREDS MORE. Over 600mb of unforgettable retro-gaming. This CD will keep you busy for months!!! Floppy drive required, Keyboard recommended.

ARCADE CLASSICS NEW!!! (CD76) Now £14.99



THE EPIC COLLECTION

Contains our most popular floppy based software titles on one giant CD-ROM. Now you can purchase the entire Epic collection in one go. This compilation contains hundreds of megabytes of Amiga software. subjects include: Professional mono clipart, colour clipart, numerous 3D objects for Imagine & Lightwave, Colour, Bitmap, Compugraphic fonts & Adobe fonts, Graphics converters, Music tutorials, Beginners guide, 3D stereogram generators, Hundreds of Sound FX and samples, Virus Killers, Hard disk installer & tools, Various Hardware projects, A number of classic demo`s, Hundreds of games including Shoot`em ups, Mind teasers, Puzzle, card, arcade and board games. The latest Assassins games & the latest LSD utilities are also included. Dozens of Emulators are included. The Epic collection CD-ROM is updated bi-monthly, and user updates are available to registered users for as just £9.99, this means you can have the very latest range of software regularly without having to keep purchasing new CD-ROMs. You simply return your Epic collection CD-ROM, we`ll update it and send it straight back to you. It`s as easy as that. *Supplied with printed Index booklet.

THE EPIC COLLECTION GOLD NEW!!! (CD100) £59.95

A superb CD-ROM for all STARTREK fans, contains Hundreds of graphic images in IFF & GIF from the very first series too the very latest film/series. Dozens of IFF and WAV sound samples are also included aswell as both the Next Generation & original Startrek Theme tunes. Also includes dozens of Startrek animations in both Amiga anim & FLI, a number of Startrek games for the Amiga & PC are also included. UPDATED VERSION

STARTREK MULTIMEDIA GOLD (CD04) £27.99

Features hundreds of all-time classic C64 games, Over 10,000 commodore 64 Megademos, over 30mb of classic C64 game tunes and loads more.

C64 SENSATION "Blast from the Past" (CD120) £19.99

The Grolier electronic Multimedia encyclopedia contains thousands of pages of information on every subject, with Thousands of great colour photographs and illustrations and hundreds of sound clips from the BBC this CD-ROM is san essential purchase for all CD-ROM users. Suitable on any Amiga configuration.

GROLIER ENCYCLOPEDIA Version 2. (CD46) Special £26.99

A complete reference library of occult, esoteric, fringe and alternative reality. 40 million words in over 2300 text files. Covers UFOS, Aliens & coverups, The JFK conspiracy, police, Alternative medicine , tarot, palm reading, Astrology, Paganism & more.

MYSTERIES (CD136) £21.99

Aminet 7 (November '95) contains around 200mb of new data. catagories include: Thousands of tools, games, demo`s, music modules, software patches. AGA software. features an easy to use front end and search facility.

AMINET 7 (CD124) £14.99

Adult Sensation Volume One contains over 4,000 high quality colour photographs of glamour girls. This CD will take you months to ponder through. Only suitable for humans over the age of 18 and under the age of 65.

ADULT SENSATION (CD01) £19.99

The Professional Desktop Video CD-ROM contains hundreds of top quality anti-alias fonts (colour & mono), original backdrop textures, symbols, 3D objects, desktop utilities. high quality desktop video clipart, and more.

DESKTOP VIDEO CD (CD68) £14.99

The colour library contains thousands of top quality colour clipart images for use in any paint or Desktop publishing package. Dozens of popular subjects included. Inc: Transport, Animals, People, Technology, etc

COLOUR LIBRARY (CD130) £9.99

Lucky Dip volume one contains hundreds of games, demos, clipart, fonts, music, tools, graphics utilities, Animations, Sound FX, Samples, and loads more. At just £4.99 it`s a bargain!!! *FREE with any order over £25.00

***LUCKY DIP Volume 1** (CD49x) £4.99

Create your own fascinating 3D stereogram images. contains numerous tools as well as hundreds of pre-rendered pictures and hundreds more for you to render your self. Very easy to use.

ILLUSIONS 3D (CD54) £9.99

Includes over 3000 high quality colour images and over 3700 official documents covering every Shuttle mission. Delve into the history and excitement of The Space Shuttle encyclopedia.

THE SPACE SHUTTLE (CD138) £19.99

E MAIL epic@epmia.demon.co.uk

PIC Marketing
ictoria Centre,
8 Victoria Rd,
indon, Wilts.
N1 3BU. UK

GA-

UK Mail Order / Enquiry line.
01793 490988
Fax Order line.01793 514187

EPIC MARKETING (AUSTRALIA)
If you live in Australia or New-Zealand you can now purchase any of the above CD ROM titles from our Sydney based premises. Send your orders or enquiries to:
EPIC. 36 Forest Road, Heathcote, NSW. 2233. Australia.
Tel: (02) 520 9606
Fax: (02) 520 6077
For a Price list please send a SAE. For prices in Australian $$$ simply double the UK £££ prices listed.

SYSTEM

review

Gloom

Reviewed by Andy Maddock

GRAPHICS 85%

SOUND 80%

GAMEPLAY 84%

OVERALL 81%

PUBLISHER
Guildhall Leisure

DEVELOPER
In-house

PRICE
£29.99

DISKS
2

HD INSTALL
Yes

SUPPORTS
A1200

From the title and the screenshots, I can guess what all you readers are expecting. It looks like Doom and sounds like Doom, but more importantly, does it play like Doom?

There's no escaping the fact that the 'in' game at the moment is Doom... on the PC. Everyone seems to want to make a close version of it on the Amiga – it's rumoured there are many more to come.

Some people believe Doom on the Amiga is just not possible, and I agree with them. Others believe or hope to believe that Doom will grace their Amiga screens soon. I feel it will never be reproduced on the Amiga because of the technical differences between the PC and the Amiga. However, if Escom do produce a PC that's Amiga based then I'll have to believe it when I see it. Until then, I won't be holding my breath.

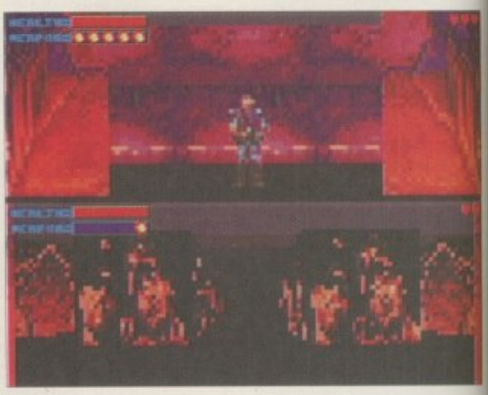
Gloom is basically a 3D shoot-'em-up that contains the most violence ever witnessed. There is an option to switch it to either meaty or messy. If messy is selected, as soon as you fire a bullet at one of the opposing soldiers they will burst into little bits and leave an awful mess on the floor which you will have to walk through. You can imagine after shooting quite a few soldiers that the floor won't remain in its shiny, polished state.

You are basically thrown into a futuristic Space Hulk maze which looks remarkably like the scenery used in the film Aliens, and the idea is to get out – alive. This is not such an easy task because there are literally hundreds of foot soldiers and bare chested madmen to plough through. These and huge robots will stand in your way, firing bullets ten times the power of your own.

Throughout the game bonuses are available

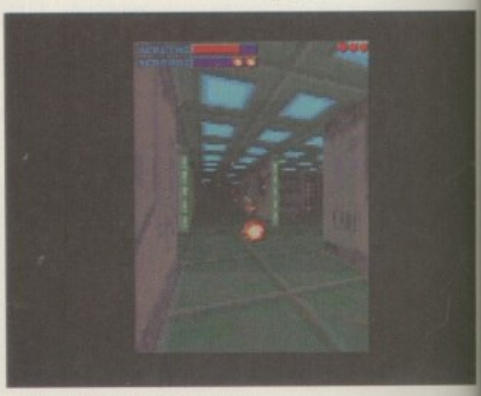
Doom and Gloom

Other games following this genre are Alien Breed 3D, Fears, Behind the Iron Gate, and more recently Citadel from the Polish team Arrakis Software – previewed in this issue. Gloom has a fair amount of competition to get through and each one is looking excellent. Can Doom finally be reproduced on the Amiga? From what we've seen of these efforts already, it's getting there. I'm beginning to change my mind completely.



These two human players are staring straight at each other. However, one of them is invisible

The graphics do appear very blocky here, although, thankfully, the screen resolution can be changed



Reducing the size of the window speeds up the game immensely

Your team leader will advise you what to look out for. Don't take his advice! Hide in a corner somewhere instead

> ‘as soon as you fire a bullet at one of the opposing soldiers they will burst into **little bits** and leave an awful mess on the floor’

for collection which can affect your health and firing power. A huge gun with a full weapon boost is essential for disposing the bigger robots.

There are plenty of options to choose from before you begin the game, including a two-player split screen where you can chase your opponent around a sealed maze with only yourself and a gun. You can also play Gloom through a serial link connecting two Amiga's together, so you can both play using a full screen.

The Amiga 1200 has, in the past, been able to churn out some quite speedy graphics, although something has to be sacrificed for this. For more speed, the variety or amount of sprites usually deteriorates immensely. In Gloom's case, the variety of sprites is lacking and during the later levels the amount of sprites does affect the speed.

There are three main locations and in these there are some sub-missions where you have to reach the exit. There are no real missions such as rescuing colleagues which is a shame because it gives the game a plot and a storyline, which Gloom unfortunately hasn't got.

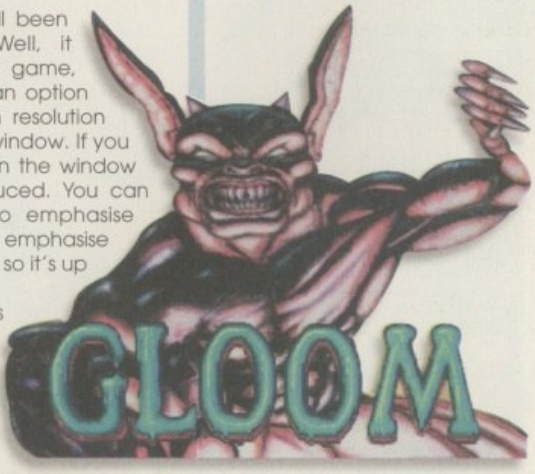
As said before, the level of violence is quite high. After shooting someone with a bullet they won't be content with falling to the floor and disappearing, but throw themselves violently into the air while spreading their various organs over the wall. On occasions I have noticed that if you get too close to an exploding body, it will squirt spots of blood on to your own face. By the end of a particularly nasty level you will find that your face will be covered in blood, partially covering the action.

Now, the bit that you've all been waiting for – the speed. Well, it depends you see. During the game, pressing escape will bring up an option for you to change the screen resolution and size of the actual playing window. If you choose a high screen resolution the window size will automatically be reduced. You can play with a small window to emphasise speed, or with a full screen to emphasise the action. They both work well, so it's up to you.

The actual character sprites do appear very blocky when you get reasonably close – although to increase the speed, the floor and ceiling graphics can be switched off.

You have to be very careful when attempting to open one of these doors. Lots of bare chested madmen will appear

The title screen sets the scene delicately. Are you ready to slice some bodies up and eat their remaining entrails? Not here



Final word

Although the whole idea of these games is to get on a par with Doom on the PC, as I've said before there's absolutely no way I am going to compare the two. There's no point in saying 'Ooh, it's rubbish, it looks nothing like Doom on the PC' because it's not supposed to. I'm not going to give it a low score because it doesn't match the PC version of Doom – I am going to mark it purely for Gloom itself, as a game. The graphics are the best yet for games of this genre. Gloom is completely packed with smooth graphics, a huge challenge and most of all, action and excitement. It's certainly the best attempt yet, although with other similar efforts only weeks from completion, only time will tell which one will rise above the rest.

Tiny Troops

Previewed by Tina Hackett

> ‘ Tiny Troops puts you in charge of a **small army** and it’s down to you to direct them to do certain tasks ’

The fun strategy puzzlers are usually met with an enthusiastic response from the games playing public, and you only have to look at the success of Cannon Fodder and the many Lemmings games to see this. So it is perhaps a little curious that there hasn’t been a whole host of these titles flooding the market, employing this simple but highly addictive concept.

That is until now, with both Gametek and Mindscape spotting a potential gap in the gaming world. Gametek’s title, Baldies, (previewed a couple of months ago) is near to release and Mindscape are well into production of their offering, Tiny Troops. Tiny Troops puts you in charge of a small army and it’s down to you to direct them to do certain tasks. There are two warring factions, the Klutes and Furfarians, who have been in battle for 450 years. This has caused serious damage to their planet, so rather than continuing to wreck their home they travel to Earth to continue with their dispute.

You are given a top-down view of the scenario, enabling you to see exactly what is going on in each battle. To control the game you use an icon-based interface, clicking on the relevant icon to carry out your orders. To speed things up you can access a small map which means you can move your troops around quickly.

Objectives will vary in strategy from complete destruction to rescue attempts to assassinations. Armoured vehicles can also be used which will provide variety.

The finished game should feature a massive 72 different battles spread over a variety of colourfully designed levels and as well as these missions the player will also have to face six progressively harder end-of-level baddies.

As you can see from the screenshots (PC – but the Amiga version will look almost identical), graphics opt for a fun feel and by enlarging everyday objects – such as the plugs and so on – you do a get a very appealing style.

Expect Tiny Troops around October.

A two-player game should provide an amusing challenge

Midget gems

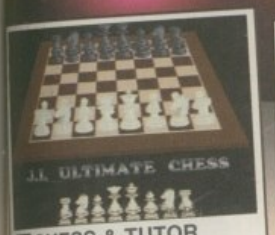
The usual one-player mode will be available but this sort of action lends itself nicely to a multi-player game. Mindscape have catered for this so you will be able to link two Amiga’s for a bigger multi-player game or compete in a head-to-head battle on one machine. In single-player mode, the computer opponents learn from their mistakes, so will act more intelligently and effectively, making for a tough challenge.

Control your army of troops through the icon-based interface

Graphics promise to be colourful and imaginative

The computer opponents learn from their mistakes, providing longevity

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

only £5 each

☐ **CENTREFOLD SQUARES**
A great game for Adults!!!
Order code:CFS5-1

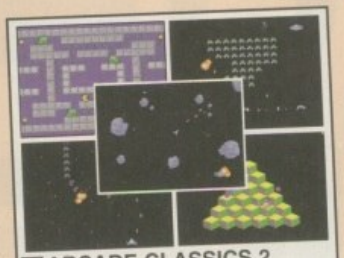
☐ **IMAGINE HINTS & TIPS**
Imagine Hints, Tips, and tutorials is the perfect companion for Imagine users. Includes a 40 page book plus a free companion disk.
Order code: HTT5-1

FREE BOX OF TEN **TDK** DISKS
WITH EVERY PURCHASE OVER £25.00

☐ **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

☐ **SPECTRUM EMULATOR**
Play classic spectrum games on your Amiga. This pack includes over 50 All time classic Spectrum games.
Order code: SPE5-3

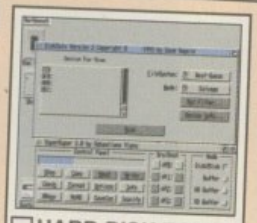
☐ **LOTTERY WINNER PRO.**
Lottery Winner Professional attempts to predict the National Lottery draw with as little as just a few months data. Every week you input the winning numbers and lottery winner will predict the following weeks numbers. (OFFICIAL FULL LICENCED VERSION) Order LWP5-1



☐ **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

☐ **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

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.

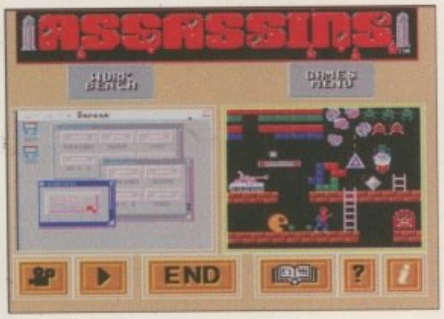
PRODUCT KNOWLEDGE
8 full time Knowledgable staff to assist you.

SYSTEM
feature

Assassins Ultimate Games

Supplier: Weird Science
Price: £17.99 **CD32:** Yes

The Assassins have been one of the premium PD companies around, producing compilation after compilation of excellent PD games. Weird Science have managed to put together a CD full of games and utilities that have previously been released before.



The floppy disk collections from 1 to 200 are all archived on to the CD and require dearchiving via Workbench – although the actual games can be run immediately from easy-to-use menus. There are a bundle of games all categorised into sections and then alphabetical order, and these range from arcade games to card, puzzle and quiz games.

The utilities are all packed as DMS files which need to be dearchived on to floppy disks. A disk masher program is included but the UNDMS command will still need to slide into the C: directory on your hard drive. The utilities are a selected bunch of audio and graphic disks, featuring mods and anims. As mentioned before, there are a tremendous amount of games on the CD – archived and otherwise. However, all of them have previously been on Assassins floppy disks, so I must advise you that if you do happen to own a large quantity of Assassins' PD disks already, I suggest you look elsewhere.

At £17.99, the CD is priced quite high, but if you want quality it looks as though you'll have to pay for it.

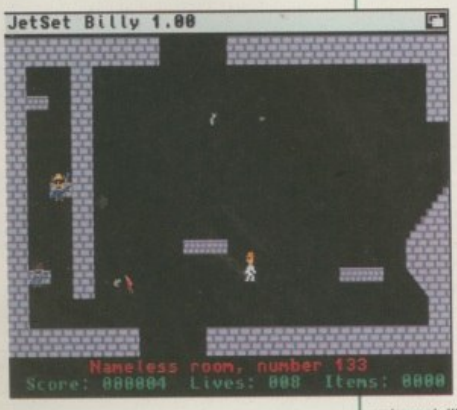
87%

CD-ROM go

Arcade Classics

Supplier: Epic Software
Price: £9.99 **CD32:** No

I can guarantee that you will have played most games on this CD, as several versions of them are still knocking about in a dark corner of a pub somewhere in the world. During the '80s these games were flying around all the best arcades in the country. Oh, how we hate advances in technology!



Frogger, Space Invaders, Defender, Tetris, Missile Command and Pacman are all included on this CD, along with 500 others. Each one is an actual variation on the original, so it won't be an exact arcade copy but a close Amiga version. Incidentally, a couple of goes on Galaxian on the arcade would probably have set you back about 10p. Nowadays, with the addition of virtual arcades, £3.50 is the set price – just for one measly go.

It's astonishing how the games have advanced so much, yet classics like Space Invaders still have greater playability and challenge than some of the brand new games in today's market. The best game in the arcade had to be Frogger, a game I'm sure you'll remember. You had to guide a small green frog across a very busy road and then a rushing stream containing floating logs. One of the premium classics, I'm sure you'll agree.

As this Arcade Classics CD-ROM is the first of many – being Volume 1 – there could be a whole host of old classics gracing your Amiga screen soon. For £9.99 you can't go wrong, and although it may not appeal to the younger gamers out there, it will certainly please the older among you.

Comparing today's market prices, £9.99 seems like absolutely nothing at all. Five hundred games for absolutely nothing at all seems a real bonus to me.

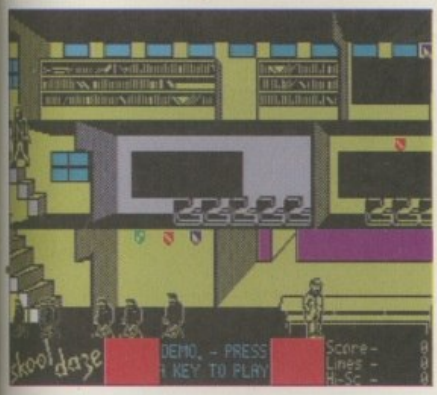
87%

Speccy Sensation

Supplier: PD Soft
Price: £14.99 **CD32:** No

Looking back over the last ten years – sitting now with an Amiga 1200 with a hard drive and a CD-ROM drive – you can finally forgive and forget. No more worries about a 10 minute loading duration only to find a tape loading error flashing boastingly across the screen. Oh, how those days are forgiven.

All your old favourites that you'd gladly wait a lifetime to load are now brought gleefully onto the CD-ROM. Five hundred titles that will have you reminiscing with your friends within minutes. The greats such as Manic Miner, Skool Daze, ATV Simulator, Saboteur and Everyone's A Wally are all included – loading up instantly via an easy-to-use menu system.



One problem that can be experienced when running Spectrum games on the Amiga is that the games are exceptionally slow. This is because of the different processing speeds between the two machines. However, the games on this CD don't seem to slow down and as said before, load in seconds.

People who used to use the Spectrum frequently will get the most out of this CD. 'What's the point, though?' I hear you say. People tend to leave these CDs alone, maybe because their experience with the Spectrum wasn't a good one, or they still have theirs and claim that if they want to play the games they'll fish them out from a box in the corner of the attic.

Don't bother – for £14.99 you may as well save yourself the trouble. I can guarantee you'll slide deeply into old times.

91%

es public

Reviewed by Andy Maddock

Power Games

Supplier: PD Soft
Price: £7.99 **CD32:** Yes

Power Games from PD Soft is another games CD-Rom containing Public Domain and shareware games. Once again they are categorised into headings, such as sport, action and puzzle, etc. There are more than 500 games all available to you through one of the most unfriendly menu systems ever. Once you've found a game it will take you a while to actually select it because you'll find yourself looking at instructions or other information when you thought you'd selected the game itself.

This is because when you select a particular box, the highlight around the outside is very faint and it's difficult to see what you've selected. Although the CD claims to be compatible with the CD32, some of the games fail to work which seems very pointless.

Also, you will recognise or have heard of some of the games, but others you will have no idea what they are – and most of them aren't really worth the time of day. There are 500 Public Domain games included on the CD, but there are not many of outstanding quality – however they are reasonable none-the-less.

The menu system, as mentioned before, is very unfriendly. It gives the game's name and a short description, along with the creator's name. Although it may seem that a lot of time has been spent putting this CD together, it is clearly very rough around the edges. The unfriendly menu system together with the exceptionally bad choice of games makes this CD only just worth its asking price. Having said that, there isn't much else knocking around for only £7.99.

54%

> "It's astonishing how the games have **advanced so much**, yet classics like Space Invaders still have **greater playability** and challenge than some of the brand new games in today's market"

SYSTEM review

GRAPHICS 83%

SOUND 75%

GAMEPLAY 87%

OVERALL 82%

PUBLISHER
Gametek

DEVELOPER
Software Sorcery

PRICE
TBA

DISKS
2

HD INSTALL
NA

SUPPORTS
All Amigas

Like Hollywood sequels, the software industry will churn out game after game based on the same tried and tested formula. It's not always a bad thing – after all, some sequels make vast improvements over the originals – but there comes a time when repackaging the same goods is going to leave the audience jaded.

In gaming, no genre is more repetitive in its content than the beat-'em-up. The popularity of its most impressive incarnations has lead software houses to come back for more rich picking with games that vary little apart from slightly enhanced graphics and bloodier special effects.

Years after the beat-'em-up's birth, however, even the laziest developers have been trying to give their new combat games a vaguely fresh twist. Spectacular metamorphosising finishing moves, international locations and a greater range of bizarre characters have been wheeled in to inject new fighting spirit into the proceedings.

With robots and streetfighters behind us, Gametek are going for a new angle with a game featuring cute but deadly critters as its muscle-bound contenders. Named Brutal: Paws of Fury, this new title steers away from the realistic visual approach of Mortal Kombat in favour of more humorous, cartoon-like charicatures.

The simple storyline bears a Far Eastern flavour with lots of sayings from bogus mystical teaching padding out the ten characters' backgrounds. Choosing from creatures like Kung Fu Bunny, Tai Cheetah or Kendo Coyote, players fight it out in a competition to find the world's best fighter.

Graphically, Brutal is only slightly above average, with reasonably well drawn characters playing out the action against varied but unimpressive locations. In compensation, however, the game's contenders have been made more lively with the addition of characteristic gestures and moves.

Anyone who experienced the ludicrous disappointment of Rise of the Robots will know that beauty is only skin deep, however. What really counts is whether Brutal can provide anything in terms of a challenge that hasn't already been offered by previous beat-'em-ups.

Thankfully, the cosmetic novelty of fighting with furry creatures is not the only difference about the game. One original touch, for example, is the fact that players must learn special moves as their character gains in experience through winning fights.

Whereas it's possible in Mortal Kombat to use all the special moves immediately, this game

At the end of a fight this screen gives accuracy statistics while commentary scrolls across the bottom

The Bear may be fat, but it's one of the tougher opponents players will face

Panther shows off one of his lower level special moves

After two successful fights, the Kendo Coyote acquires a new move in the training section

The instigator of the whole competition is the Dali Llama, a creature armed with some devastating special powers

Furry but flawed

Unfortunately, Brutal is let down by some irritating flaws, one of which occurs in the mountain scene where characters die if they fall off the edge of the combat platform. The problem is that the Lion opponent that inhabits this location has the habit of careering off the edge before the player has had a chance to touch him – or at least that's so in earlier levels.

The inclusion of a password system for each character is vital, especially when you've gained access to a good range of special moves. The fact that this currently doesn't seem to work gives further cause for concern.

Leon the Lion is one of the better charicatures thanks to the addition of some humorous mannerisms

Brutal Paws of Fury

Reviewed by Gareth Lofthouse

makes acquiring them more challenging and satisfying. After defeating two opponents, players rise in rank and enter a training session in which they have three chances to learn a joystick sequence. If they successfully imitate it they have access to that move from then on.

There are a vast number of these moves to be learnt, and greater experience yields more powerful and spectacular combinations. This approach could do much to give the beat-'em-up the durability it traditionally lacks, thanks to the long-term rewards it provides. Putting the fighting moves into practice is also satisfying. On earlier levels a few simple kicks will get you far – possibly too far – but more variety and imagination becomes necessary on higher levels. Thankfully, no move is so complex that it's impossible to string a series of them together in a fluid attack sequence.

Of course its possible to play against a friend with different characters and alter difficulty levels, of which there are plenty to choose from, and there are the usual karate sound effects accompanying the action.

Final word

The game's modest appearance does little to inspire excitement on the first viewing of Brutal Paws. The cartoon characters make an appealing change in the genre, but the quality of the graphics doesn't match up to top selling rivals on the Amiga. Surprisingly, the game overcomes this handicap by combining a few innovations with enjoyable gameplay. Training to acquire a broader repertoire of moves did much to solve the problem of giving a combat game a long-term challenge, and it's highly in keeping with the martial arts' theme.

A word of warning for those who eat this type of game for breakfast: I'm no ace gameplayer, but by starting on an easy level I managed to acquire all the special moves to progress through the game until I almost finished on its highest difficulty – and that was on my first game.

This problem can be avoided by starting the game on a higher level to start with, because it then becomes hard to get each of those powerful advanced moves. Nevertheless, considering how experienced most players are in this genre, the developers should have made Brutal a bit tougher from the outset. This is not a damning criticism, however.

What's more worrying is the fact that the password system didn't work, which seriously detracts from the long-term playability. Providing Gametek sort this and a few other minor flaws out, however, this beat-'em-up could be a worthy addition to your game shelf.

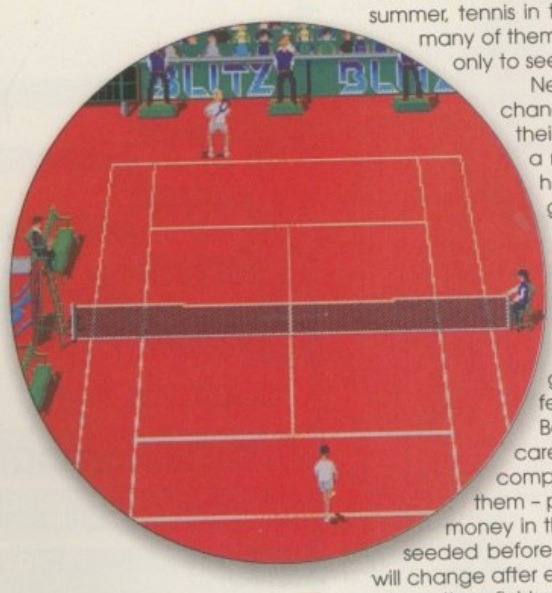
> ' Brutal Paws of Fury steers away from the realistic visual approach of **Mortal Kombat** in favour of more **humorous, cartoon-like** charicatures '

preview

The title screen in all its glory. It actually looks quite cartoony, doesn't it?

Now Wimbledon has finally packed up and gone home – the event not the place – I can finally come out of hiding as I absolutely hate it, more than anything in the world. Now the football season is underway I'm so much happier.

What really annoys me is the fact the spectators can lounge in the sun with strawberries and cream and us football fans have to stand up in the pouring rain with a bovril every week! Why don't we switch them around – football in the summer, tennis in the winter. Ha, let's see how many of them turn up in the freezing cold, only to see the match rained off.



Sampras and Courier locked deeply into battle – the number one and two seeds

Newcomers Blitzware set out to change my mind completely with their new product Center Court, a rival for Pro Tennis Tour which has to be the greatest tennis game on the Amiga. I'm sure you're all familiar with the game of tennis, and even if you don't understand the rules, I'm sure you've all seen it once sometime. Center Court isn't merely just a quick game, there's a huge career feature involved.

Basically, the idea behind a career in tennis is to enter as many competitions as possible and win them – picking up quite a hefty sum of money in the process. All the players are seeded before you begin and their seeding will change after each tournament – depending where they finished and how many points they acquired.

At the moment Pete Sampras is the number one seed, but if other players win matches and trophies they will eventually take over the top spot. The most money is won by coming first in all the tournaments and staying number one in the world rankings. That way you can be sure you'll be top of the prize money league.

Graphic enhancement

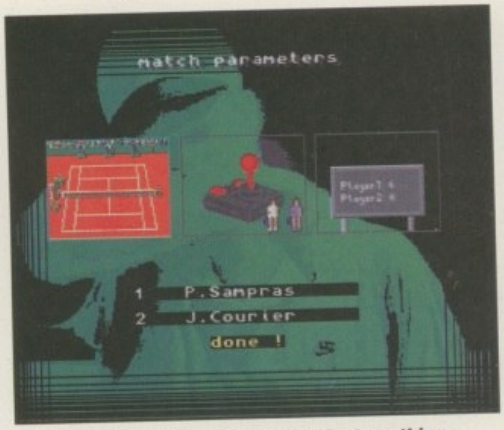
The graphics shown in the screenshots are going to be enhanced, as the shots here are early pictures of the action and don't really reflect on the gameplay yet. Overall, it's all coming together quite well, and if the graphics can match the gameplay then it could become another winner.

You can enter your own name and edit your own personal characteristics. If you wish to be a speedy player, you may have to sacrifice your accuracy or power. All the characters are reasonably matched, only appearing distinctive in one or two areas. The other competitors start off far better than you, although after a few tournaments your rating will gradually improve.

LIFE-LIKE

From the screenshots you will notice that a number of them are digitised and feature action shots from real-life situations. These only appear if you win a particular trophy, but it is quite nice to see some pleasant graphics which reflect on your success.

At the moment you can have a single match against the computer or anything up to four human players at once. This is an excellent idea because you can all take part in a double match. There are over 90 real players included

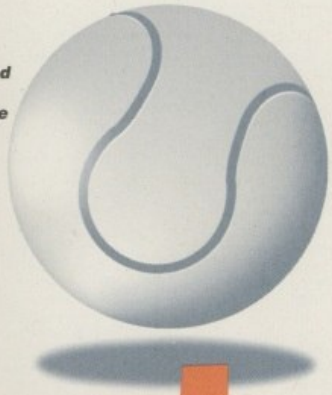


The match options. You can select anything up to a four-player game here

Center looks like it's going to be a bit of a graphical feast

From the tournament screen you can view all the different player's statistics, to help you find their weaknesses

Another digitised shot of a real match. This time your choice of court is clay



Center Court

Previewed by Andy Maddock

> ‘Center Court isn’t merely just a **quick game**, there’s a huge career feature involved’

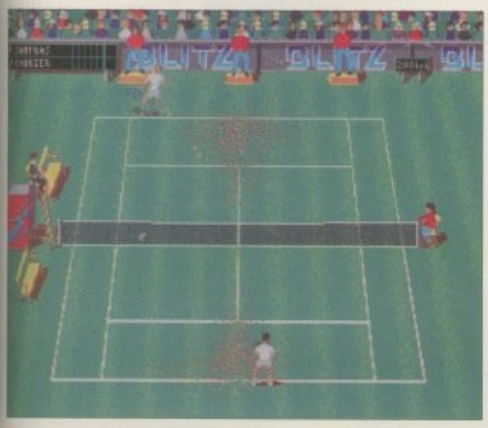
with their own individual statistics and attributes. They have also been made-up to look like their counterparts.

For instance, John McEnroe sports a rather nifty headband, but sadly, he doesn't involve himself in all the fracas he usually gets into. André Agassi is recognised easily by his rather fetching cap and Boris Becker by his ginger locks. Throughout your career you are given the option whether to take part in a particular tournament or not. If you do you may win it or even acquire some money for the runners-up spot, but if you don't take part at all, your ranking won't increase and you'll be left sniffling at the bottom of the league with a lower rating than a cabbage.

If you select the career option you will be able to access all the other players' statistics and their rankings and also see the points table. These are all very useful when it comes to playing an opponent you are unsure about.

The actual match sequences are very addictive and contain all the various shots contained in tennis, such as forehands, backhands, smashes, diving shots and volleys. All of these can be performed very easily with the slightest movements with the joystick.

Acid Software, the makers behind Skidmarks are distributing Center Court Tennis. As it is programmed in Blitz Basic there's no reason why it can't be of the same quality as Skidmarks. We'll have to wait and see.



The Wimbledon-like tennis court – nice and green, but wearing in the centre

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)

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

£1.00 PER DISK

PUBLIC DOMAIN SOFTWARE

PLEASE NOTE: ONLY A FRACTION OF THE DISKS WE STOCK ARE LISTED ON THIS ADVE
FOR A COMPLETE LIST OF THE 5000+ DISKS WE STOCK, ASK FOR A FREE CATALOGU

3842 MORTAL KUMQUAT 3
No Guesses What This Is.
X3841 STRANGE! CARDSET
For All Klondike's
X3840 BEAVIS CARDSET
For Klondike 1.2 & 3
X3839 MANGA MANIACS
Another Klondike Cardset
3838 GALLEONS
2 Player 3D Shootem Game.
3837 (AB) ACT OF WAR HELPER
Tips, Maps & Loads Of Help!
3836 (AB) BLACK DAWN 5
A New Beginning.. Superb!
3835 REMDATE V2.0
Address Book. Diary. Reminder Etc.
3834 KIDS DISK 7
More Fun For The Kids!
3833 HD GAMES INSTALLERS #4
Installs All The Latest Games!
X3832 (ABCD) PICTURE BOOK
Superb New AGA Demo!
X3831 (ABC) AMAZED DEMO
Stunning Demo By Vanity!
X3830 TENEBRA DEMO
Another Vrey Nice AGA Demo
X3829 ARTCORE SLIDESHOW
Excellent Slideshow From Scoopex.
3828 (AB) SURFING THE JAZZ WAVE
Very Nice Jazz Music Disk
3827 MAGIC WORKBENCH PACK #12
Backdrops & Startup Pix.
X3826 STAR WARS GALAXY
Another Klondike Cardset.
X3825 THE MASK CARDSET
Suitable For All Klondikes
3824 RED DWARF QUIZ #2
Updated Quiz By Fubar.
3823 (AB) PAGESTREAM PATCH 'H'
Latest Available Patch Disk.
X3822 EXCELLENT CARD GAMES III
Restricted Verson For Demo's
3821 DOPUS UTILS #2
More Directory Opus Utils
3820 IMAGEDESK V1.6
Thumbnail Pic Cat Maker!
3819 PHOTOGENICS V1.2
Useable Demo Version
3818 DOPUS 5 PATCH
Patches V5.5 To V5.11
3817 THIRD DIMENSION #15
Latest Mag For All 3D Con Kit Users.
X3816 DEVILS ABODE
3D Virtual Reality Game
3815 WORDSEARCH DESIGNER
Update To Earlier Version

3814 ENLOCK V1.4
HD Password System
3813 MR GREEDY
Childrens Story Book.
3812 GARFIELD 1
Short Garfield Animation.
3811 FEARS
One Level Preview. Like Doom.
3810 BREAKIN BRICKS AGA
Bat & Ball Game For AGA Machines
3809 SUPER DMS V2.0
Windowed Version. Updated.
X3808 PAM ANDERSON CARDSET
For All Klondikes.
3807 NFA - THE WORD #6
Scene Disk Mag.
3806 TRANSITON
Image Conversion Prog.
3805 ZXAM V2.0
Superb Speccy Emulator!
3804 MENUS & MORE V3.20
Menu Systems For HD's
3803 DUCK DODGERS
Platform Game. Great!
3802 SAUCE N CODE #1
Amos Related Source Code Etc.
3801 BOOKIE BEATER
Predicts Results Of ANY Sport!
3800 CODE NAME NANO
Thrust Type Game Clone.
3799 SUPER LOTTERY
Still Havent Won Yet?
X3798 HELLRAISER CARDSET
For All Klondikes
3797 PCTASK V3.0 PATCH
Patches To V3.10
3796 OCTAMED V6.0
Demo Version
3795 (AB) IMAGESTUDIO V2.1.0
Superb GFX Conversion Prog.
X3794 (AB) MALEDICTION
3D Texture Mapped Adventure.
3793 BEGINNERS TYPING TUTOR
Basic Typing Tuition.
3792 SCOUT (MUI REQ.)
Tool To Monitor Computer.
3791 GEMZ
Great Puzzle Game!
3790 TURBOSUITE V3.1
Disk Cataloging Sys. Demo.
3789 (AB) SKIDMARKS2 CARS
New Cars For Skidmarks 2.
3788 DELUXE PACMAN V1.6
ECS Version. Superb!
X3787 DELUXE PACMAN AGA V1.6
AGA Version! Excellent!

3786 EGG SCRAMBLE
Mad, Mad Game!
3785 DOS MAN
Intensive Dos Tutorial
3784 MULTITUDINOUS
HD Menu System
3783 THIRD DIMENSION #14
3D Cons Kit Disk Mag
3782 ACT OF WAR MISSIONS 3
Requires Registered Game
X3781 STARTUP & BACKDROPS
Pictures For Workbench 3
3780 (AB) ROM #4
Scene Disk Mag
X3779 MOMENTS
Great AGA Demo
3778 SANITY ROOTS II
Superb Sequel!
3777 HD GAMES INSTALLER 3
Installs Dozens Of New Titles
3776 BLITZ BLANKER V2.60
Required MUI.
X3775 FIREMAN SAM
Klondike Cardset
3774 (AB) MWB BACKDROPS
Based On Startrek
3773 LEGIONS OF DAWN
F1 Game Demo. 2 Meg Req.
3772 MOSAIC V1.3b
Latest Websurfer.
X3771 WALLACE & GROMIT
Klondike Cardset
X3770 ROSIE & JIM CARDSET
For Klondike AGA
3769 (AB) SHAREWORLD #4
Cybercraft's Disk Mag
3766 XFILES GUIDE
Xfiles Serial Guide
X3765 LECH DEMO
AGA Demo From Freezers
X3764 REN & STIMPY CARDSET
For Klondkie AGA
X3763 THIRD DIMENSION #13
3D Cons Kit Diskmag
3762 MORSE CODE TRAINER
Learn Morse The Easy Way!
3761 HARDWARE PROJECTS
Now Where's That Hammer?
3760 ROBS HOT GAMES #15
Includes Air Taxi!
3759 ROBS HOT LOTTERY STASH
Won A Million Yet? Naah!
3758 MAGIC SELECTOR V1.7
Changes SFX Etc On Bootup
X3757 FRACTASM CARDSET
For All Klondikes
X3756 EROTICA CARDSET
For All Klondikes
3755 NEW UTILS #12
New Batch Of Hot Utils

3754 NEW UTILS #11
Even More Utils!
3753 MWB ICONS & BRUSHES
More Stash For Magic Workbench
3752 ROBS HOT STASH #39
Another Hot Utils Comp.
3751 BROWSER II V3.03
Superb Multi Window File Manager
3750 ROBS HOT STASH #38
More Hot Utils From Rob!
3749 TERM V4.3 EXTRAS & LIBS
HD Required!
3748 TERM V4.3 030 VERSION
Includes Locale.
3747 TERM V4.3 & LOCALE
Archived With LHA. NO Installer!
3746 IMAGE ENGINEER V1.1
Image Processing App.
3745 NEWROSES CARDSET
For All Klondikes
3744 DELITRACKER 2 V2.14
Superb Music Player!
3743 VIRUS WORKSHOP V5.1
Kills All Known Germs... Dead!
3742 ROBS HOT VIRUS KILLERS
The Latest Of The Best!
X3741 (AB) MELCHIOR DEMO
AGA & HD Only Demo!
3740 SPACED OUT!
2 Superb Platformers For Kids!
X3739 DYNAMICS AGA
Great 256 Colour Art Package!
X3738 TEMPLE OF DECEASE
Great AGA Demo!
X3737 GENERATIONS CARDSET
For Klondike AGA
X3736 PREHISTORIC CARDSET
For Klondike AGA
3735 ENDURANCE DEMO
3D Cons. Kit Game.
3734 TEXTURE STUDIO V1.0.2
Imagine Texture Manipulator.
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

NETSURFE
All You Need To Surf The Internet Highways With Ea
The 6 Disks Include Ami
Mosaic, GuiFTP, Grapevi
EFF's Guide To The Inter
And More. Only £5.99

17 BIT U • THE 5TH DIMENSI
Long Awaited Sequel To The PHA
Order Your Copy Now For £19.
+ 75p Postage.
WB2 & WB3 CD USERS ONLY

MAGIC OBLIVI
Transform Your Otherwi
Bland Workbench With Th
Superb Pack Of 10 Disk
New Icons, Fonts & Drops
All For £9.99!

HOME APPLICATIO
Loads Of The More Popul
Home Utils Are Included
This 10 Disk Set! 'Accoun
Organisers, Address Boo
You Name It!. All For £9.9

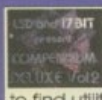
AMINET 7 IN STOCK NO £14.99

THE FINAL FRONTIER
ISSUE 8 NOW IN STOCK
£6.95

CD ROM PRICE MATC
WE WILL DO OUR BEST TO MA
OR EVEN BEAT ANY CD ADVERT
ELSEWHERE. ALL ORDERS SE
SAME DAY 1st CLASS POS

AMIGA CD ROM SOFTWARE

TEXTURE GALLERY £36.99
This double CD set contains over 1.3 GIG of textures in TARGA, JPEG, IFF, PICT, SGI & TIFF formats. Perfect for use with any 3D program such as imagine or lightwave!



LSD COMPENDIUM 1 £14.99
LSD COMPENDIUM 2 £17.99
TAKE BOTH CD's FOR ONLY £29.99!
Each CD is packed with hard to find utilities, games, graphics & demos! Easy to use menu requires kickstart 2.0+

IMAGINE CD £36.99
One of the most complete collections of textures, attributes, objects and backgrounds available for imagine users.

POWER GAMES £14.99
A collection of over 500 superb PD games for any CD rom platfrom including CD32! All titles included run direct from the CD!

GOLDFISH VOL 1 £26.99
GOLDFISH VOL 2 £26.99
BUY BOTH TITLES FOR £49.99!
Spread over 4 CD's, these sets contain all of the Fred Fish library to 1995! Hundreds of utilities!

NETWORK CD £13.99
NETWORK CABLE £18.99
BUY THEM BOTH FOR £31.99
The network CD & Cable allows a CD32 to be linked to any other Amiga, giving full file access to any CD!

ASSASSINS CD £17.99
The most complete and easy to use games CD available. Titles run direct from the CD on ANY Rom drive, incuding CD32! Interface is a very easy to use custom menu.

THE LIGHT ROM £36.99
THE LIGHT ROM 2 £36.9
BUY THEM BOTH FOR £69.9
If you have Lightwave, then these are a 'must buy' if you intend to tak raytracing seriously! reccommend

MULTIMEDIA TOOLKIT 2
£22.99!
DOUBLE CD!
Fonts, clipart, objects 24 Bit images, 250 MB of samples & mods from the M.U.G, includes the FULL Octamed 5.04! & MORE!!

17 BIT COLLECTION £27.99
17 BIT CONTINUATION £9.99
17 BIT PHASE 4 £17.99
TAKE ALL 3 SETS FOR £44.99!!
Each CD contains hundreds of disks from our library, with an easy to use point, click & dearchive menu!

IMAGINE ENHANCE £39.99
Contains exclusive data covering objects,maps, fonts, backdrops, demos and picture gallery plus other various bits & bats to enhance your images.

AMINET 4 £9.99
AMINET 5 £12.99
AMINET 6 £14.99
AMINET 7 £14.99
AMINET 4 DISK SET! £24.99
Includes entire contents of Aminet 1 to 4, plus 220 MB of NEW DATA!

WE HAVE MANY MORE CD TITLES IN STOCK! CALL US FOR NEW RELEASES!

ZOOM CD	Active & Ground Zero's Latest PD Releases.	£19.99
MEETING PEARLS II	650 MB Of New PD Software	£ 9.99
DA CAPO CD	Over 1400 Of The Best Available Music Mods.	£24.99
GATEWAY CD	NET BSD & Internet Tools For Amiga's!	£ 9.99
POV-RAY CD	Images, Scenes, Source Code, Utils & Tips!	£19.99
INSIGHT DINOSAURS	A Complete Reference Guide For The Dino!	£24.99
WORLD INFO '95	All You Need To Know About Every Country!	£39.99
GROLIERS 2 CD	Superb Updated Encylopedia.	£26.99
ANIMATIONS CD	2 CD's Full Of Amiga Animations!	£17.99
SPECCY SENSATIONS	Hundreds Of Speecy Games & Emulators!	£17.99
HOTTEST 5	PD Softs Latest Library Release With Booklet	£17.99
3D ARENA	Superb Collection For All 3D Users!	£22.99
ULTIMEDIA 1 & 2	A 2 CD Collection Of Multimedia Resources	£19.99
BC MODS & SFX	Thousands Of Samples & Modules!	£ 9.99

ALL THE CD'S ADVERTISED ARE IN STOCK AND AVAILABLE FOR SAME DAY DESPATCH BY FIRST CLASS POST

The Citadel

Previewed by Tina Hackett

> 'The pre-production demo we played had plenty of **blood and gore**, it also looks like it will be quite successful in creating a mysterious atmosphere'

Like other games of this nature, there will be a liberal splattering of blood and guts

The name is fairly new over here but Arrakis Software are a company who usually develop utility products for the Polish market. Their latest projects include a new editor like Final Writer, a database, and a spreadsheet with versions in Polish, English, Czech and German planned. But the reason for their inclusion in this section is because of their latest title which means a real change in direction for the Polish team. Called 'Citadel' it joins the latest in a long line of Doom clones for the Amiga. It's not the only game in the pipeline either. 'Diamonds Mine' is the next on the schedule with three more to follow – although details are sketchy at the moment.

Citadel, as previously mentioned, is a Doom-esque shoot-'em-up. Viewed from the usual first-person perspective, set in a 3D environment, you are armed with a gun and the mission is to shoot anything that moves.

A brief plot summary casts the player as the only surviving crew member on a mysterious planet and their mission is to destroy the Citadel. The Citadel is the army complex placed under the surface of the planet D104-GS12. When communications broke down, your crew – the X16, combative operation unit – was sent to see what had gone wrong. The rest of the crew have now been destroyed.

When finished the game will contain 20 levels, varying in difficulty and using different graphical scenarios. The final version will also have a 2Mb rendered intro and will have in-game and Game Over animations.

The pre-production demo we played had plenty of blood and gore to keep the more blood thirsty happy. It also looks like it will be quite successful in creating a mysterious atmosphere – something the other clones seem to lack so far. One thing we weren't too happy with at this stage was the way you got hurt when you bumped into walls – a fact which is inevitable when you play from this view.

The main character of the cyborg is armed with six types of weapons, all of which are necessary to see off the different types of enemies. The hero can also get tired, become injured and even get drunk. As well as being able to blast the enemy, the player will encounter puzzles and traps such as moving walls and levers and buttons which need to be operated.

The recent problem that the developers of the Amiga Doom clones face is how to get the game running smoothly at quite a fast rate, but without reducing a lot of the detail. Most have overcome this by making their game configurable to suit the capabilities of different machines.

Similarly, Arrakis Software have also made this possible by making the game window a variety of different sizes and incorporating user-definable detail levels. So those with an A500 can still expect a fairly slick game as long as they play on a small window and without floors. Those with A1200s and above, on the other hand, can freely choose screen size and level of detail.

Expect a full review of Citadel soon. We'll also be bringing you a round-up of the best and rest of the Amiga Doom clones when we've seen all the contenders in what seems to be genre of the moment.

There are many different screen modes available and each alters the speed depending on machine

This is the smallest view available – a bit too small perhaps

WIZARD GAMES

1 NORTH MARINE ROAD, SCARBOROUGH, NORTH YORKSHIRE. YO12 7EY. Tel: 01723 376 586

ANY 3 FOR £20.00

10 Intelligent Strategy Games	Guardians (A1200)	Shadow Worlds
Addams Family	Heroquest + Witchlord	Sleep Walker (A1200)
Battle Toads	Inter Open Golf (A1200)	Soccer Kid
Bubble & Squeak	James Pond 2 (A1200)	Soccer Team Manager
Cloacwiser A1200	K240	Space Crusade + Voyage Beyond
Crash Dummies	Kick Off 3 Europe A500	Strip Pot (A1200)
Cybercom 3	Krustys Funhouse	Tactical Manager/Italia/Scottish
D-Generation	Legacy of Sorasil	Top Gear A1200/A500
Dennis A1200	Man Utd League Champs	Traps & Treasures
Disposable Hero	Marvins Adventures (A1200)	Trivial Pursuit
European Champions F/Ball	Microprose Golf	Trolls
F15 Stike Eagle	Mig 29 g.fulcrum	Turrican 3
F15 Strike Eagle 2	Naughty Ones	Vital Light
Fat Man (A1200)	Nick Faldo	Wembley Int. Soccer
Football Glory	Out to Lunch	Winter Supersports
Fun School 2 (8+/6-8/under 6)	Risky Woods	Zool 2
Fury of the Furies	Road Kill (A1200)	

When Ordering please give one alternative also which Amiga

CD32

American Heritage Enc.	Fireforce	Morph	Sleep Walker
Battle Toads	Flyharder	Naughty Ones	Soccer Kid
Beavers	Fury of the Furries	Nigel Mansell	Striker
Bubba 'n' Stix	Humans 1 & 2	Out to Lunch	Super Methane Bros
Bubble & Squeak	John Barnes	Overkill + Lunacy	Time Table History
Castle 2	Kid Chaos	Premier	Top Gear 2
Chuck Rock 1	Little Divil	Robocod	Whales Voyage
Deepcore	Man Utd	Seven Gates of Jambala	Zool 1/Zool 2
Donk	Mean Arenas	Shadow Fighter	

Beneath a Steel Sky - Amiga/CD	£14.99	Overlord	£14.99
Civilisation A1200	£12.99	Shadow Fighter	£10.00
Crystal Dragon	£12.99	Simon the Sorcerer - A1200/A500/CD32	£16.00
Elite 2 - Amiga/CD32	£14.99	Superskidmarks	£17.99
Goblins 3	£12.99	Tower of Souls (A1200)	£14.99
Manchester United The Double	£12.99	Voyages of Discovery	£10.00

THIS IS ONLY A SMALL SAMPLE OF OUR SOFTWARE

Games subject to availability.

A PHONE CALL RESERVES YOUR ORDER.

Open 6 days a week 9.00 - 5.30

Price inc. P+P (U.K.)

Europe + £2.00 per game. Rest of the World £3.00.

Shop prices may vary.

Cheques or Postal Orders payable to: Wizard Games.

WIZARD GAMES, 1 NORTH MARINE RD, SCARBOROUGH, N. YORKS YO12 7EY

Tel & Fax: 01723 376586/503299

IBM PC, ATARI ST, SUPER NES, MEGADRIVE, GAMEBOY, AMIGA, MEGA CD, COMMODORE 64, GAMEGEAR, CDi, SINCLAIR SPECTRUM, NES, CD32, NEO-GEO, LYNX, MASTER SYSTEM

DIAL-A-TIP

HINTS 'N' TIPS 'N' CHEATS 'N' POKES

ALL FORMATS CHEATLINE, JUST SAY 'YES' FOR YOUR MACHINE

0891 445 937

(IF YOU MISSED LAST WEEK'S - CALL 0891 101 235)

NEW! THE AMIGA GAMES LINE FEATURING CD32 ...0891 445 786
NEW! THE SEGA GAMES LINE FEATURING MEGA CD.....0891 445 787
NEW! THE SUPER NINTENDO GAMES LINE 0891 445 769
NEW! THE CONSOLE CHEATLINE PC ENGINE, T.G.16, JAGUAR, NEO-GEO, CDi 300, CD32, MEGA CD, DUO 0891 445 772
NEW! GAMEBOY, GAMEGEAR, LYNX CHEATLINE 0891 445 771

ALL CHEATLINES UPDATED EVERY WEEK

MORTAL KOMBAT I & II.....0891 445 987
SFL WORLD WARRIOR, TURBO, S.C.E.....0891 445 940
CHAOS ENGINE 0891 445 936
DESERT STRIKE/JUNGLE STRIKE 0891 445 953
LION KING/DOOM 0891 445 951

FOR FULL INFORMATION ON ALL OUR SERVICES CALL 0891 445 939

ARE YOU STUCK IN A GAME? WHO YA GONNA CALL? PROBLEMBUSTERS! QUESTION & ANSWERS SERVICE 0891 445 977

GUIDING LIGHT COMPUTER SERVICES LTD
PO BOX 17, ASHTON-UNDER-LYNE. OL7 0WW.
IF YOU'RE UNDER 18 PLEASE ASK PERMISSION BEFORE YOU CALL. MAXIMUM CALL CHARGE AT PEAK RATE £3.68
CALLS COST 39p PER MINUTE CHEAP RATE AND 49p PER MINUTE AT ALL OTHER TIMES.

MEGATRONIX SOFTWARE

HIGH QUALITY PAGESETTER DTP FONTS

If your are a avid user of Pagesetter or Pagesetter II, these fonts could be just what you need to add a touch of spice to your documents!

Pagesetter Fonts 1 (5 disks).....£5.99
Pagesetter Fonts 2 (5 disks).....£5.99
Pagesetter Fonts 3 (5 disks).....£5.99
There are over 50 fonts in each collection. Buy all 3 collections for £13.99 OR CALL FOR FONT SAMPLES

MODEMS

High quality Supra modems, ideal for intensive BBS access and Internet:
SUPRA 14,400 bps speed.....£119.99
SUPRA 28,800 bps (very fast).....£209.99
All cables and software is included.
Call our BBS to try your modem out!

HARD DRIVES

All drives are quality 3.5" IDE mechanisms:
120Mb.....£89.99
540Mb.....£149.99
1.3 Gb.....£279.99
All prices include P&P (insured).

MEGATRONIX MAILING LIST

We have many exciting projects for the Amiga. To ensure you don't miss out on any new developments, please send your name, address and computer details to:
AMIGA MAILING LIST, MEGATRONIX SOFTWARE, 21 TILED HOUSE LANE, BRIERLEY HILL, WEST MIDLANDS DY5 4LG, UK or, Tel: 01384 77172

MIDNIGHT EXPRESS B.B.S

Extensive Amiga file areas – AGA Demo's, Utilities, Music Comms, Graphics, Non-AGA Demo's, P.D. Games, Fonts + Clipart, BBS Related, etc!

- FREE DOWNLOADS - GENEROUS FILE RATIONS - CALL NOW! -

(+44) 01384 86-56-26

IntOS

– The Intuition Extension for AMOS –

- Over 120 commands to fully utilise the Amiga's Intuition System.
- Compatible with AMOS, AMOS Professional and AMOS/AMOS Pro Computer.
- Create and use gadgets, windows, screens, menus, etc – as used in Amiga Workbench in your own programs.
- Create stylish 3D look interfaces in minutes!
- Display full 256 colour AGA in AMOS with ease.
- At last you can create professional business applications and utilities using AMOS – no need to learn 'C' or switch to 'Blitz Basic' – AMOS is now a TRUE application and utility development language.
- IntOS comes complete, professionally boxed, with a detailed instruction manual and programs to get you going.

AUI REVIEW: 90% – JUNE '95

Give your programs the professional touch with ease...

SPECIAL OFFER PRICE:

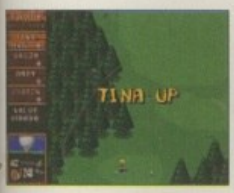
Now Only £19.99 (including P&P)

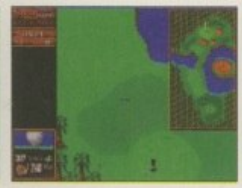
IntOS is @ £1995 OTM 200 Software
Minimum Requirements: Kickstart 2, 1Mb memory, and AMOS or AMOS Professional

INFORMATION AND ORDERING DETAILS

To order any of the items on this advert, simply grab a plain piece of paper, clearly stating your name, address (inc postcode), your Amiga model and your complete order details, cheques and Postal Orders should be made payable to 'Megatronix' – and sent to: MEGATRONIX SOFTWARE, 21 TILED HOUSE LANE, BRIERLEY HILL, WEST MIDLANDS DY5 4LG. TEL/ENQUIRIES: 01384 77172

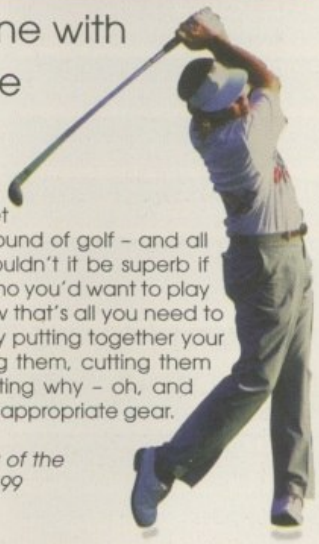
Compo





Celebrity Golf!

Score a hole in one with our Virgin/Sensible Golf competition



Yes, it's great when all these celebs get together to play a round of golf – and all for charidee. But wouldn't it be superb if you could choose who you'd want to play in a round of four-ball? Well, now that's all you need to do for our competition by simply putting together your winning team by either drawing them, cutting them out of mags etc. and then stating why – oh, and don't forget to dress them in the appropriate gear.

*20 lucky winners will get a copy of the brilliant **Sensible Golf** worth £29.99 and a Virgin T-shirt.*

Celebrity Golf competition form

Name: _____

Address: _____

_____

_____

Please send your entries to:

Celebrity Golf, Amiga Computing, IDG Media, Media House, Adlington Park, Macclesfield, Cheshire SK10 4NP.

closing date for all entries is 16 October 1995 ● UK only

SYSTEM Cheats

Sensible World of Soccer

There have been so many cheats and tips flying around for the greatest football simulation ever, we thought we'd join the party!

When you begin the game, be one of the top clubs with the most expensive players – Man United, Juventus or Barcelona being the favourites – and whizz through the entire season, collecting a worthwhile honour. When you receive an offer from a club you wish to transfer to, exchange two of your best players for the worst each week and hopefully when you accept the job at the end of the season, a huge bank balance and an awesome team will be waiting for you.

Pinball Fantasies

Type in these before you begin for some strange effects:

Earthquake
Vacuum Cleaner
Extra Balls
Andreas
ULF
Markus
Fairplay
Digital Illusions
The Silents
Fredrik
OLOF
Barry
Crew

Shadow Fighter

Type these codes on the character selection screen for the following effect:

TEREKAKKU – Unlimited credits
PARAPONZIPOPO – Fight as Puppaz
MBARIVIDSOCCAFFARIMBARI – Fight as Shadow Fighter
EBBRAVOSCECCU – Opponent loses energy if you type this in at the beginning of a round

Roadkill AGA

Here are some track codes for Acid's excellent racing sim:

Track zero: LQPONTQNJO
Track one: LQPONRHCNM
Track two: LQPONTMBCH
Track three: LQPONTMBCH

SYSTEM budget

Reviewed by Andy Maddock

Ishar Trilogy

PUBLISHER
Daze

DEVELOPER
Simarils

PRICE
£29.99

DISKS
10

HD INSTALL
Yes

SUPPORTS
A1200

Ishar 1, 2 and 3 weren't really my most favourite games ever – especially being a reviewer that detests any sort of RPG. All this business of wizards and warriors is just too much for me to handle. These games always seem to inflict the most serious effect of boredom ever. If you are one of these people, you'd better skip this bit as Daze bring out their incredibly adventurous Ishar games in one package. Anoraks out everybody!

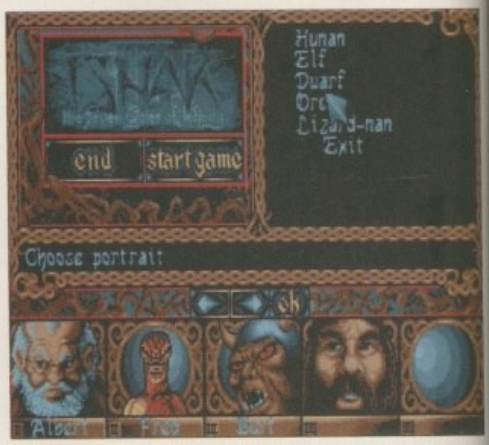
I suppose as time has passed, each Ishar game has been superseded either in overall quality or in a graphical way, and Ishar 3 is supposedly the best of the bunch.

The way Ishar actually plays is the most annoying factor, with slow, tedious scrolling drudging along only to reveal mammoth beasts that must be disposed of rather quickly. This is achieved by aimlessly wandering around, going into shops and buying magic potions, and recruiting the ordinary public to join your gang. You can then begin the mission to hold on to your island, Kendoria.

As mentioned before, the graphics are nothing very special and the whole game may be very in-depth but just doesn't play well, which is the most important part.

If you are a roleplaying game buff then three games for the price of one would sound quite a bargain. Although, for £29.99 you could also buy yourself three balaclavas, a pair of horn rimmed spectacles, an anorak and a tartan flask. The choice is yours.

58%



The most exciting, in-depth, animated adventure game ever. Packed with remarkable gameplay and an amazing challenge. Ooh, that's right!

Cannon Fodder

PUBLISHER
Hit Squad

DEVELOPER
Sensible Software

PRICE
£14.99

DISKS
2

HD INSTALL
No

SUPPORTS
All Amigas

Cannon Fodder hardly needs an introduction as it turned out to be one of the best games of the year. It's very unlikely that anyone out there hasn't actually played it, so I suppose this budget release could be, in fact, quite pointless. However, after such a high profile release with its success, how could it possibly avoid the inevitable budget label?

Cannon Fodder is, pure and simply, a war game. The objective of war is to win – sparing as many casualties as possible. The idea is to complete the mission objectives along with the subphases in each scenario. The first is in the jungle where you are given five recruits. Each one has a rank and to begin with you are given the highest ranks to play with. As you lose a soldier he will be replaced by another nervous youngster willing to risk his life and limbs for his country. Obviously, these young chappies aren't going to be as sharp as the rest of the bunch, so the more you can keep them in the clear and at distance, the more likely they are to survive.

The Sensible Software trademark comes in very effective once again – small but so pleasurable.

There are two main strategies to follow on your road to victory. These are either hold back and wait for the enemy to make the first move, or the less favoured run towards them at a ridiculous speed with all guns blazing – destroying yourself and a number of the enemy all at once.

The characters themselves are controlled by the mouse using a point and click method. All the weaponry such as cannons, grenades and rockets can be activated using simple clicks on the mouse.

With the typical Sensible Software characters, tremendous gameplay and a big challenge, Cannon Fodder will always rank alongside the true greats the Amiga has produced. Their rather cheeky yet uncompromising quote 'War has never been so much fun' is clearly an understatement. It's more fun than ever!

92%

Rome AD92

PUBLISHER
KIXX XL

DEVELOPER
Millennium

PRICE
£14.99

DISKS
3

HD INSTALL
No

SUPPORTS
All Amigas

Rome AD92 was released around two or three years ago now and adopted the Populous-like 3D isometric view which actually became quite popular. The idea is to control Hector, a Roman slave who wants to higher his position in society by deception. At the beginning you start as a slave with lower status than the cleaners. Stealing a toga off one of the people of authority will deceive many of the town's residents, enabling you to order people around.

As the volcano that lies on one side of the town is about to explode, getting off the island is a must. With so many people and so few boats, fighting for an escape route is essential, and this entails mugging people for their money and purchasing a very sharp dagger.

When Rome AD92 first arrived, the humour element was instantly recognised. It wasn't a strict copy of life in Rome but more of a serious light hearted look at life back in Roman times. For a start, all the characters are humorously named – you are ordered to send a message to Seganus Megadrivus, of all people.

If you can remember Robin Hood from a while back, it plays just the same. You have freedom of the entire city so you don't have to do things in any particular order – you can just roam, talking to everyone you meet.

Although the graphics don't boast quality, they are reasonable nonetheless and do their job more than adequately. There are six levels to battle through, all with fresh challenges, making this not so much an essential purchase but a fun game for anyone – especially with the humour element. At a nice cheap price of £14.99, Rome AD92 certainly boasts value for money.

Once you've managed to steal the toga from the fat bloke who's always in the swimming pool, you can mug everyone!

84%

Heart of China

PUBLISHER
KIXX XL

DEVELOPER
Dynamix

PRICE
£16.99

DISKS
9

HD INSTALL
Yes

SUPPORTS
All Amigas

Being a loud American in a quiet village in China means merging in with the common public isn't going to be an easy task. Making as many friends as possible in this very graphical icon driven adventure is an absolute necessity. You are given your own identity, character and personality, and unfortunately you have been graced with Jake Masters, or Lucky to your friends – an annoyingly loud American with less sensitivity than a badger.

There isn't an actual plot as such – all is revealed as you become more involved in the game. This involves plot branches where you can reach different parts of the game you may never reach again if you restart the game, and picking different objects up and speaking to other people about other things. This makes Heart of China probably the most interactive game around – this system is called the Dynamix Game Development System (DGDS).

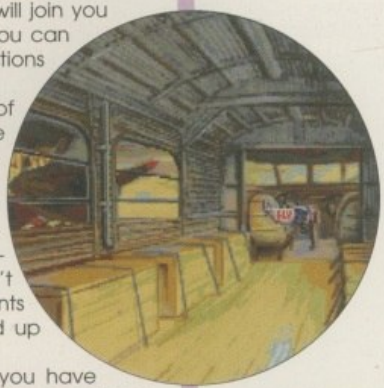
All the usual adventure icons are present such as talking, picking things up, dropping things and looking around. However, as you progress and make friends with people, they will join you on your mission objective and you can temporarily take over their actions and objects.

There is an enormous amount of depth to Heart of China and the animated effects and atmospheric tunes are excellent. However, there is a down side. Most of the progression throughout the game is made by guesswork and trial and error. There isn't so much as a sniff of clues or hints and purely by luck will you end up right in the heart of the game.

Having said that, though, if you have got the time to explore the game in great detail, it'll certainly be a worthwhile and rewarding experience. Heart of China is certainly one of the better graphic adventures around.

83%

Before going heading off to battle, a trip to the herb shop is in order to purchase those magical remedies



You can fly absolutely anywhere you like in Heart of China, with the exception of Barbados to bask in the hot sun. Pity

AMIGA COMPUTING Snippets

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

HORNESOFT P.D.

Est 1990
Over 13,000 Disks available
(Dept AMC) 23 Stanwell Close, Wincobank, Sheffield S9 1PZ. Tel/Fax: (0114) 296 7825. Mon - Sat 9.30am-6pm.

5D LICENCEWARE

BLOX £2.95 — Classic sliding puzzle game with extra card sets available at PD Price.
NATIONAL LOTTERY £2.95 — Easy to use lottery number generator.
CATALOGUER £2.95 — Catalogue your videos, disks, music tapes and CDs with this easy program.
MENU SYSTEM £2.95 — Create your own disk based catalogue with the easy to use menu system.

Above Licenceware includes postage

SPECIAL PD PACKS

100 GAMES PACK £5.00
100 DEMOS PACK £5.00
CARD GAMES PACK £5.00
BOARD GAMES PACK £5.00
TETRIS GAMES PACK £5.00
All above packs include postage
Any 2 packs for just £8.00. All 5 packs for just £20.00

ALL LICENCEWARE & PACKS WILL WORK ON ALL AMIGAS WITH AT LEAST 1 MEG MEMORY

Make all payment out to: HORNSOFT PD or phone our credit card hotline for immediate despatch.
To obtain our free catalogue disk send a S.A.E. or just ask for a copy with any of the above ordered.
Same day despatch on all orders. CREDIT CARD HOTLINE (0114) 296 7825

NFA & SADENESS PRESENTS: AGA Experience

NFA & SADENESS PD present their first Amiga CDROM disc – The AGA Experience.
This is the first CDROM dedicated to A1200/A4000 owners! It features:
- EXCLUSIVE NFA productions.
- EXCLUSIVE Klondike carsets.
- EXCLUSIVE AGA Slideshows.
- Magic Workbench Colour scheme.
- Custom Ray-Traced Icons.
- Licensed Amiga Report diskmags.
- All AGA Amiga Doom-Clones.

The AGA Experience includes the LATEST AGA Amiga PD/Shareware. This includes:
- 100 MB of greatest AGA Utilities
- 150 MB of best AGA Slideshows
- 100 MB of the best AGA games
- 200 MB of the latest AGA Demos
- Mods, Pics, Objects & much more

This is a NEW release at just £19.99
For more details about The AGA Experience, please contact us. (Trade Enquiries Welcome).

SADENESS. 13 Russell Terrace, Mundesley, Norfolk. NR11 8LJ. England
TEL/FAX: (01263) 722169. Email: Richard.Brown@metnet.demon.co.uk

Convert your Amstrad COLOUR MONITOR – £ 10.00

	DIY	MADE
464, 6128 (CTM 644/0) Picture Only	£6.00	£10.00
464, 6128 (CTM 644/0) inc. stereo speakers	£31.00	£40.00
464, 6128 PLUS (CM14) Inc sound	£9.00	£15.00
464, 6128 Green (GT-65) Pic Only	£6.00	£10.00

Dept AMC, Hagars Electronics, 127 High Street, Sheerness, Kent ME12 1UD
Tel/Fax 01795 663336 — Money back approval — P&P inc.
Cheque/P O/Access/Visa/Switch — Delivery 2 Days

THE AMIGA USER CLUB

★ FREE PD! ★
★ Membership Discounts! ★
★ FREE MONTHLY Newsletter! ★
★ Special Offers! ★

Send SAE for details or telephone

EXAMPLE PRICES

Brilliance V2	£61.99
Lightwave 3D	£432.99
Citizen ABC Printer	£144.00
Premier Manager 3	£18.00
Sharp TV Monitor	£162.00

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

FUTURE ROLEPLAYER

The New Magazine For Roleplayers

Issue 3

Features:
European GenCon Show Report
Ian Livingstone – Life After Workshop
2 Free disks offer

WIN Campaign Cartographer

PLUS: Warhammer, Traveller: The New Era, Star Trek: TNG, Ravenloft

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

BSB Books for your Amiga

Bruce Smith Books

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.

UK Comms – Complete Beginners Guide
This is the complete computer communications book with everything you need to get started and progress in one easy to use package. Find out how to use the Internet, Bulletin Boards, CompuServe, CIX, Delphi and the many other services offering to drive you down the Information Superhighway. Written by John Kennedy and Darren Irvine.
ISBN: 1-873308-40-X, 320 pages, £19.95 inclusive.

Masters of Amiga
Practical: Real examples with no detail left out and no assumptions made; step by step tutorial text with examples and illustrations at every important point; great design to make information easily accessible. **Useful:** Comprehensive reference material fully indexed and with no stone left unturned; programs, routines and utilities on disk; technical appendices, bibliographies and glossaries. **Reliable:** The best authors; regularly updated; Amiga developer status.
Bruce Smith Books publishes a complete range of books for your Amiga. Whether you run a second hand A500 or an A4000 040 we've got a book for you. Send or call for free catalogue.

24 hour credit card hotline: 01923 894355.
Cheques/POs/cards to: BSB, Freepost 242, St Albans, Herts, AL2 3BR.

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

NEW RELEASES

Zoom	£19.99	Gateway	£9.99
Meeting Pearls 2	£9.99	Amos CD V2	£19.99
Sound Library	£19.99	Aminet 7	£14.99
CD Write	£44.99	IFF & PCX 2	£19.99
Lightworks	£39.99	Lightrom 2	£39.99

SPECIAL OFFERS

Power Games	£9.99	Assassins CD	£12.99
Demo Manie 1	£12.99	Multimedia Toolkit	£9.99
Gamers Delight	£14.99	Lock 'n' Load	£9.99

BACK IN STOCK*Hutchinson's Encyclopedia £9.99*
BACK IN STOCK *SIM CITY CDTV VERSION £14.99*

This is just a very small selection of the titles we stock. Please send a S.A.E. or ring for the latest list. We also stock the complete Almathera, Fred Fish, G.T.I., Optonica, PD Soft & Weird Science ranges.

CAPRI CD DISTRIBUTION
Dept AC10, Capri House, 9 Dean Street, Marlow, Bucks. SL7 3AA
TEL/FAX: 01628 891022
TRADE ENQUIRIES WELCOME

PD POWER

For the latest and greatest titles

NEW IN

Coarse Angler	(2 disks, Shareware hit of the decade)
Jet Set Willy 3	(Platform)
Last Lap	(Car Racing)
Scorched Tanks V1.85	(Strategy)
Psycheval	(Great Shoot 'em up)
Lords and Empires	(2 disks, Brilliant Strategy)
Space Eclipse	(2 disks, 2 meg.)
Space Adventure Management	
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

FREE PD SOFTWARE

AMIGA - PC - All Commodore
Subscription September-December £9.50 UK only
Call (0181) 651 5436 or
Write to 45 Brookscroft, Linton Glade, Croydon CR0 9NA
Independent Commodore Products Users Group

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 593387
Monday - Sunday 9am - 8pm
Answerphone on at all other times
2 Elm Grove, Ebrington, Nr Chipping Campden Gloucs. GL55 6PE

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

To place an ad on this page call Barbara Newall on 01625 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 107
Frank Nord takes a different line this month and reviews the MegaMouse Plus

Amiga 3D 109
Paul Austin explores the latest add-ons for LightWave – Plugins and Go!

ARexx 111
Setting up screen form descriptions is Paul Overaa's handy tip for this month

Comms 113
Are you clocking up huge bills onthe Net? Phil South gives a plan for cheaper usage

Publishing 115
Frank Nord plays around with the latest add-ons for PageStream

Amos 117
Phil South returns with the final part of the screen info program

Music 119
Paul Overaa suggests a way to improve percussion sounds in your sequencing setup

Video 121
Can there ever be video harmony again for the new Amigas? Asl Gary Whiteley

Warthogs love big jobs

You will be stunned by the speed of the new Warthog 275 from Premier Vision - and positively gobsmacked by the incredibly low price. The Warthog275 is based on the world's fastest chip -the DEC Alpha, making it the most complete cost effective rendering solution on the market. Up to a massive 30 times faster than other rendering systems, allows the Warthog 275 to simply gobble up any job you care to throw at it.

The Warthog 275 MHz Dual Pipeline Rendering System (minimum specification)

- DEC Alpha 275 AXP fully fanned chip (upgradable)
- 2 Mb 17Ns secondary cache RAM
- 32 Mb DRAM (Expandable)
- 4 Mb PCI 64 bit graphics card
- 17" Multiscan Monitor
- 1.0 Gb SCSI drive
- Quad Speed CD-ROM
- Ethernet Adapter
- Keyboard and Mouse
- Full multiple fanned Tower Case with 1.44MB floppy drive
- Windows NT Workstation

Custom configurations can be designed to your own specification.

The Warthog 275 MHz is fully expandable and upgradable, and at a price of £7,499.00, its just dying to do big jobs for you!!

Warthog Rendering Service available

PREMIER VISION

PUTTING MULTIMEDIA TO WORK

UK Training Centre for NetTek

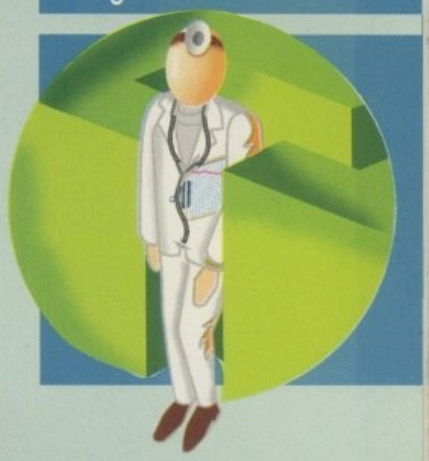
Premier Vision, 156 Blackfriars Road, London, SE1 8EN.

For a demonstration call Willy Warthog now on 0171 721 705

DEC Alpha is a trademark of Digital Equipment Company

Three buttons are better than two

Amiga Medical Part 9



In a slight change to our normal programming, Frank Nord reviews something

This month I've decided to take a break from configuration, organisation and cogitation and take a look at a handy product that, although it doesn't really need a whole page's worth of review, deserves some recognition. The item in question is Gasteiner's three button 400dpi mouse.

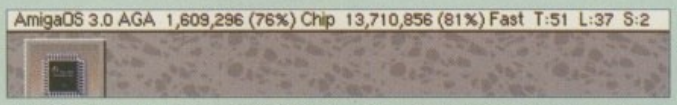
Looking just like the original Mega mouse, this one fits nicely into the palm of your hand and comes equipped with one more than the usual number of buttons. But what is the point of having a third mouse button?

For a start there are actually several programs that use a third mouse button including Directory Opus, Hisoft's DiskMagic, and many other directory managers. But in addition to these programs there are a host of PD and shareware utilities that are either specifically geared towards using the middle mouse button, or have middle mouse button functions built into them.

Some examples that spring to mind include our CoverDisk item MultiCX which lets you use the middle mouse button to cycle screens, which is much easier than the left Amiga-m combination or going up to the top-right corner of a big screen. Most of the other big commodities will also have some provision for MMB screen cycling or multi-file selection, where instead of having to hold down the shift key you use a mouse button.

Commodities like YAK have so many items to configure you could probably do with a 23 button mouse! Finally, the Gasteiner three button mouse also comes with a nice long lead and you can't beat it for value at only £12.95.

Also groovy this month is the latest version of the aforementioned MultiCX.



MultiCX's new improved Workbench title bar includes what chipset you are running, totals for Chip and Fast RAM, with percentages used and the numbers of tasks, libraries and screen currently in use

Now I can throw away even more of the commodities I have in my WBStartup drawer (hooray! down to only 16). MultiCX now replaces AssignWedge, offering the by now familiar 'Retry, assign, mount, deny, cancel' options to the 'Please insert volume BinkiBonk: in any drive' requester. MultiCX also replaces my much-loved NewEdit commodity by letting you paste copied text into text fields. Other improvements include the rather nifty WBTitle tooltype which gives you full information in your Workbench titlebar. The last three rather cryptic items refer to the number of tasks, libraries and screens you have running. The 'About' Project menu item in Workbench has also had a facelift with new reboot and flush buttons and more complete system information including processor type, etc. Hopefully there will be enough room on this month's CoverDisk to put on both this and the next program I want to tell you about.

The next program is actually a patch to the ASL.library that comes with Workbench 3.0 or 3.1. It won't work if you have an older version of Workbench, and the authors haven't tested it with a processor more humble than a 68020, so there's no guarantee it will run on a 68000-based machine. This patch gives added functionality to the three requesters ASL provides, namely the standard file requester, the fonts requester and screenmode requester.

Changes are made using the provided MUI-based preferences program and you can set such things as having the requesters centred on your mouse, the active window or screen, or at the top-left corner of the active window or screen. You can also make sure the file requester puts the directories at the top of the file list, rather than at the bottom which always seemed strange to me.

Lastly, but not least, a boot utility was brought to my attention when trawling the net for stuff for a CyberVision card. The utility in question is designed to show a picture instead of that boring black screen as Workbench loads. The utility is called PicBoot and it handled pretty much every IFF image I threw at it loading 1024 x 768 images in the blink of an eye, thanks to the accompanying UnPackILBM tool which decompresses IFF picture files, making them load a lot faster.

PicBoot is equally at home on an ECS or AGA machine or on a machine that has an RTG graphics card like the CyberVision or Picasso. It will fade in the picture and fade it back out once Workbench is loaded. AC

Set how your system requesters look with ASL Prefs. Unfortunately, there is still no way of making the font preview window in the font requester any bigger.

Virus alert!

It doesn't seem like John Veldthuis ever sleeps. No sooner have you got round to downloading v6.56 of his superb VirusChecker program, there's another version out. This time it's 6.57 and it's angry. Well, possibly not, but if you want to ensure that your hard drive is safe from even the newest viruses then get this. More than anything, this release fixes bugs from earlier versions but it does cover 49 different viruses and their relatives.

Downloading

MultiCX	
ftp://src.doc.ic.ac.uk/aminet/util/cdity/mcx20b.lha	34944 bytes
ASLPatch	
ftp://src.doc.ic.ac.uk/aminet/util/libs/asl_v42.0.lha	114061 bytes
VirusChecker v.6.57	
ftp://src.doc.ic.ac.uk/aminet/util/virus/VChck657.lha	129629 bytes
PicBoot	
ftp://src.doc.ic.ac.uk/aminet/util/boot/PicBoot.lha	39203 bytes

The bottom line

Product: MegaMouse Plus
Supplier: Gasteiner
Tel: 0181-345 6000
Price: £12.95

REPAIRS WHILE-U-WAIT!!
COMPUTERS & MONITORS

Attention Dealers

Ring/Fax Now for best trade prices and terms on Repairs, Spares, Floppy Drives, Hard Drives, CD Rom Drives and Memory Upgrades.

- FAST TURN AROUND.
- MANY REPAIRS DONE WHILE-U-WAIT!!. (AMPLE PARKING)
- 90 DAYS WARRANTY ON ALL REPAIRS.
- £20 EXTRA CHARGE FOR A600/A12000. SAME DAY REPAIR SERVICE.
- A1500/A2000/A3000/A4000 £QUOTATION
- PICK-UP SERVICE FOR REPAIRS ONLY £6.00 + VAT

NEW LOW FIXED PRICE

On A500, A500+, A600 & A1200

£49.95

Including NEXT DAY DELIVERY (if picked up by us) by Courier Service when despatched back

2.5" HARD DRIVES FOR A600/A1200

60Mb	£69.95	85Mb	£94.95	340Mb	£169.95
80Mb	£89.95	170Mb	£119.95	510Mb	£249.95

All hard drives are pre-formatted, partitioned with workbench loaded, and come with 2.5" IDE cable + software

2.5" IDE Cable + Software £9.95

MEMORY UPGRADES

A500	Upgrade to 1 Meg £13.95	Upgrade to 1 Meg with clock £18.95		
A500+	Upgrade to 1.5 Meg £14.95	Upgrade to 2 Meg £19.95		
A600	Upgrade to 2 Meg £19.95	Upgrade to 1 Meg with clock £29.95		
A1200	0Mb £49.00	2Mb £109.00	4Mb £165.00	8Mb £279.00

33MHz PFU + Crystal £39.95

INTERNAL FLOPPY DRIVES

A500 ..... £29.95 A600/A1200 ..... £34.95

CHIPS ✣ SPARES ✣ ACCESSORIES

Kickstart ROM V1.3	£14.95	68000 Processor	£14.95
Kickstart ROM V2.04	£29.95	6570 Keyboard Chip	£19.95
Kickstart ROM V2.05	£29.95	Mouse (290dpi)	£14.95
A500/A500+ Keyboard	£49.95	SCART Lead	£14.95
A600/A1200 Keyboard	£59.95	Mouse Mat	£3.95
Power Supply for A500/A600/A1200	£29.95	10 boxed branded disks + labels	£5.95
1 Meg Fatter Agnus	£24.95	Printer Cable	£9.95
2 Meg Fatter Agnus	£29.95	100 Disk Box	£6.95
Video DAC (A1200)	£19.95	Squirrel SCSI Interface	£59.95

GUARANTEED SAME DAY DESPATCH
(SUBJECT TO AVAILABILITY)

AMITAR CD ROM DRIVE QUAD SPEED — SPECIAL INTRODUCTORY PRICE INCLUDING SQUIRREL SCSI INTERFACE — £269.95

X-LINK MODEMS With Cables, Power Supply, N-Comm Software, BABT Approved + GP Fax Software for Amigas — 14.4k .....£139.95 — 28.8k £249.95

ANALOGIC ANALOGIC ANALOGIC

Analogic Computers (UK) Ltd
Unit 6, Ashway Centre, Elm Crescent
Kingston Upon Thames, Surrey KT2 6HH

Open Mon-Fri 9.00am - 6.30pm, Sat 9.00am - 5.00pm
Tel: 0181 546 9575
Fax: 0181 541 4671

★ All prices include VAT ★ All prices subject to change without notice ★ Fixed charge for repair does not include disk drive/keyboard
★ We reserve the right to refuse any repair ★ P&P charges £3.50 by Royal Mail or £6.00 + VAT for courier ★ Please allow 5 working days for cheque clearance

The power plug

Amiga 3D Part 7

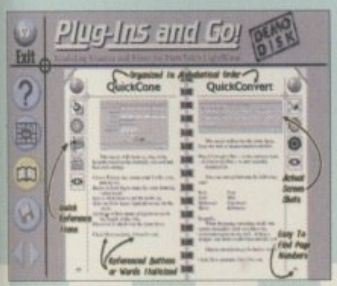
Paul Austin explores the latest plug and play add-ons for LightWave

In addition to the excellence of the LightWave interface, one of the most important elements in the LightWave repertoire is its ability to employ ARexx in the form of dedicated macros. In the early days, macros were almost entirely Modeler oriented, however the latest generation also provide add-on power to Layout in addition to the traditional automated modelling tools.

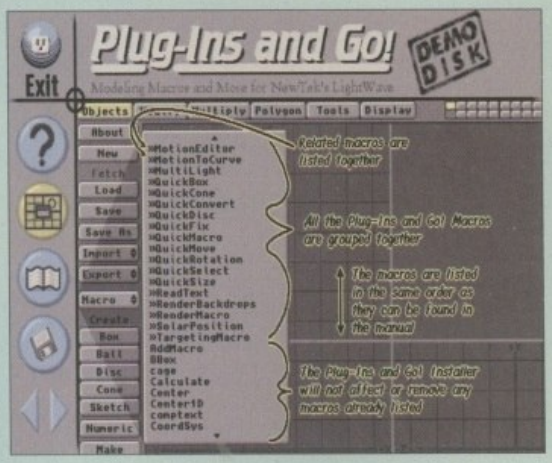
At the forefront of the new breed is a new collection from Hester and associates. Following in the footsteps of Power Macros, the new Plug-Ins and Go! collection offers a similar, if more basic collection of tools. To make up for the slight lack of technical merit in relation to Power Macros, Plug-Ins and Go! hit back with 53 macros as opposed to the 16 on offer from Power Macros.

Perhaps the best way to clarify the difference between the two is that Power Macros offer a design special effects collection – explode and shatter being classic examples – while the Plug-in range offers a more utilitarian approach.

Aside from the disk containing the macros, you also receive an excellent 100-page manual plus a second demo disk which highlights the finer points of the collection. The quality of presentation is generally excellent throughout the package, a classic example being the manual placing icons alongside each macro description to denote its area of expertise – namely, creative, modifier, calculation information or special feature, layout related, motion related, object related or text related.



ARexx has never looked so interesting. Point and click all the way...



On-line examples of the finer points via the impressive demo disk

The manual further enhances ease of use by following up the basic macro type with a list of icons which denotes what they do and will need in order to implement the chosen macro. For example, the macro may affect the entire layer or just selected items, or perhaps it requires a background layer or an empty spare layer.

USER-FRIENDLY

Installation is also a breeze, courtesy of a direct import of the entire collection via models' direct command option. Better still, once installed the macros are shown in the same order as they appear in the manual – fairly simple but nevertheless a very welcome user-friendly addition.

As mentioned earlier, the macros on offer break down into a number of specific categories. Given the available space mentioning each in turn is impossible, so I'll highlight my personal favourites in each category.

In the auto modelling department the top three include Modify to sphere or cube, quick convert, and quick move. The first option is, in fact, two separate macros, but as you'd expect they essentially do the same job. However, for anyone looking for means of morphing between basic objects and complex structures it's an invaluable addition.

The next modelling must is the invaluable quick convert option. Although not as immediate as the morphing macro, it does offer a means of converting or automatically scaling objects from millimetres to metres or even kilometres – particularly useful for blending elements from existing scenes.

Quick move is another classic example of a utility macro, which moves all the selected points in the layer to a new user-specified position. Again not spectacular, but nevertheless extremely useful on occasion.

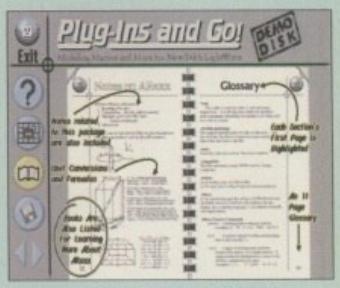
Next comes the calculation macros. Here you could probably obtain the same information with the aid of a little thought and a calculator, but why bother if Plug-Ins will do the hard work on your behalf. In this particular genre my favourites include calculate time and calculate render time. The former generates the total number of frames needed to cover a specific period, for example 1 minute 23 seconds translates to 2075 frames.

Creation tools are the next element in the equation, and it must be said the weakest link in the Plug-Ins chain. The only noteworthy macros are the create lightning and create star options, with the former generating random lightning objects for import into layout while the latter provides a simple means of designing multi-point stars.

The big disappointment in this section is the fact that they repeat many of the basic options available via LightWave's numeric input options.

Special feature macros offer a fairly unique range of tools including automated LightWave configuration, and quick macro generation. The first provides a means of adjusting the LightWave/Modeler config files on-line, while the second offers a real-time macro option which tracks your actions and then generates a completely new custom macro from them. In addition, there's a more involved macro generator which allows you to select from blocks of pre-set code and build a macro step-by-step.

Next comes motion control, with highlights such as curve to motion and motion to curve, which as you've probably guessed converts and saves either sketched paths or motion files ready for loading directly into either Layout or Modeler – again, relatively simple tasks now with added automation.



Excellent user-friendly design plus an equally impressive manual

A plug for Plug-Ins

As mentioned, Layout macros are an important part of any modeler collection. And true to form, Plug-Ins does its bit with macros which import entire scenes into modeller, add multiple lights to selected points, automate multiple batch rendering of scenes, and of course the all important targeting of one object to another over an entire anim or a user-defined number of frames.

Overall, the Plug-In collection is excellent, although it does suffer from the odd filler to make up the numbers. However, the really useful additions are exactly that. Assuming you've got to make a choice between Power Macros and Plug-ins, I'd definitely opt for the latter.

SYSTEM ESSENTIALS

RED = Essential **BLACK** = Recommended

LightWave 3.0 or higher

The bottom line

Supplier: Hester and associates
13032 Copenhill Road
Dallas
Tx 75240-5302
Tel: (214) 991-PLUG
Price $99.99

HiQ Limited

The Storage and System Design Specialists Tel +44 01525 211327

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. Future expansion potential.
9. Low cost when compared to single drive cases.
10. Mix CDRom and Amiga audio outputs thru speakers.
11. Computer speed indicator, 2 speed switchable.
12. DOES NOT VOID WARRANTY.

Rave reviews in all Magazines

Tower Version

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

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 SCSI Optical drive. This unit is a Hybrid 650Mb, Quad speed CD-ROM and Optical Read/Write system. (Yes, you did read that correctly!).

Now you can read all of your favourite CD Titles at over 600Kb per second and by purchasing the low cost 650Mb cartridges you have 650Mb of storage space always on line just like a conventional hard drive.

!Limited Supply!

Internal Drive Unit	£599.95 inc. VAT
650Mb Cartridge	£49.95 inc. VAT
External Case	£59.95 inc. VAT

3 FREE CD OFFERS

!! HiQ STAR DRIVE BUYS !!

A1200 420Mb IDE
Only £124.95

A1200 540Mb IDE
Only £139.95

A1200 850Mb IDE
Only £189.95

All drives formatted, and Magic Workbench plus PD Software installed. Free fitting for personal callers.

A1200 Cable Pack **£20**
Post & Packing £7 (CityLink)

SCSI 3.5" Drives

Quantum 540Mb FireBall	£179.95
Quantum 840Mb Trailblazer	£229.95
Micropolis 2.1Gb AV drive	£769.95

Samsung New "M" Range Monitors

The new Samsung "M" Range monitors are only for the serious Amiga user. They work at above the frequency range of the Amigas so you need to run in Double Pal mode, but the display is the best you will see from the largest monitor maker in the world!

15" does not support DBLPal
15" Gle ..£329.95, 15" Gli £399.95
17"supports DBLPal
17" Gli ....£649.95, 17" Glsi ..£749.95
P&P £12.50

Soon to be made in the UK

COMING VERY SOON

Full blown S-Video quality digital Video Recording, Editing and Playback system for PowerStation users only.

Features:-

- Digital SVHS / Comp recording.
- Encoded SVHS / Comp Video Output.
- Full Digital Video Editing software includes many high quality DVE effects.
- Upgrades Processing power.
- 16 bit Audio recording and Playback.
- Includes Mpeg playback facility.
- Mpeg file creation software included.
- 1024 x 768 16 bit colour display.
- Add Panasonic PD drive for instant studio.

Prices from approximately £1,500

Squirrel SCSI Interface

© Copyright Hisoft 1994

Need we say more £54.95 +P&P

Quad Speed versus Dual Speed (SCSI) CDRom drives

Q. Is Quad Speed the Future?
A. No, around the corner are the new multi Gigabyte CDRom drives.
Q. Is the extra speed useful?
A. In some circumstances, but most CDRoms developed to run in Dual speed.
Q. What about very high quality video 4-500kb/sec?
A. Yes, 15 minutes worth. All Video set up for 150kb/s for 70 minutes.
Q. What do HiQ know about it anyway?
A. See the MultiMedia CDRoms we develop for companies like Samsung.

Hi-Fi quality active stereo speakers

(Suits all Amigas)
Specifications:-

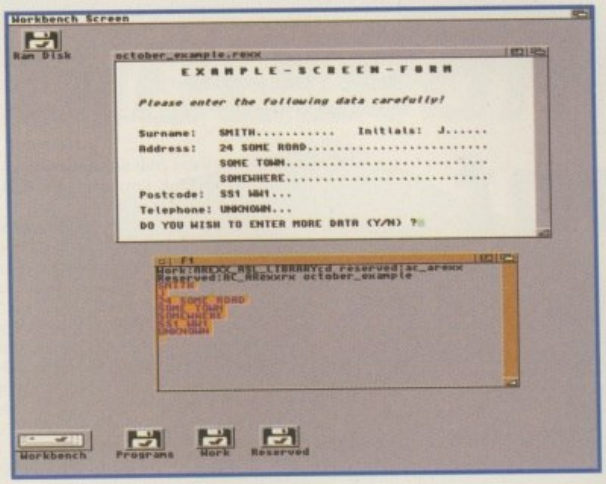
1. 80 watt active stereo
2. Built in amplifier
3. Colour matched
4. Volume, Bass and Treble
5. Excellent Bass response

Price only £39.95 P&P £7.00

All Prices include VAT

HiQ Ltd, Gable End, 2 The Square, Hockliffe, Bedfordshire LU7 9NB.
EMail address:- Compuserve 100432,711
Tel 01525 211327 **Fax 01525 211328**

Going loopy



This month's script display may look much like that from last month, but underneath the surface an awful lot has changed!

Paul Overaa outlines a useful trick for setting up ARexx screen form descriptions

It's looking good but...

Despite the improvements with this month's script there is, however, still one area that provides a potential trouble spot. It concerns some of the static definitions used within the example code. You'll notice that, where procedures (i.e. ARexx functions with their own symbol tables and execution environments) are being used, some items (for example, ESC and CSI) have to be defined in more than one place.

Despite procedural isolation being, in the main, a very good thing, the fact that 'pseudo-constant' definitions, which are deliberately intended to be global, are blocked and have to be redefined within each procedure that uses them is unfortunate. As always there is a way around this difficulty, but I'm afraid you'll have to wait until next month to find out what it is!

In recent instalments I've been discussing a number of coding approaches involving console device control character sequences and by last month, these had found their way into a program that set up a screen form. This allowed data to be entered and collected from a set of pre-defined 'fields' on the screen. I drew your attention to the fact that this preliminary script used independent statements for setting up and collecting data from each field (see listing 1) and hinted that there is a far better approach available.

The trick, of course, is to use stem-based compound variables to represent field names, row and column screen position co-ordinates, and lengths of reply fields, and it is this arrangement that I want to deal with this month. A compound variable data table is going to be used to store the values required for the CursorWrite(), ShowInputField() and CursorRead() routines of the existing script.

Listing 2 shows the new data table and the key thing to notice is that the field numbers now form part of the compound variable tails. The immediate benefit here is that do/end type loops can now be used to perform all forms of setting up and data collection operations. For example the field names and cleared reply fields can now be produced using the code shown in listing 3. Because these loop-based routines, along with others that you'll find in this month's example script, can handle any number of field items, this means that no matter how complex a form definition you decide to use, these routines will be able to handle it.

Input data can also now be collected using compound variables, with the contents of each completed form, i.e. a complete 'input record', forming part of a single compound variable set (reply$.i). Needless to say this, compared to the relatively simple approach used last month, is a big improvement.

When you run this month's example (by typing rx october_example at a Shell window) a form pretty much the same as that used in the previous instalment's code is produced. I chose, incidentally, to keep the form description the same in order to allow easy comparison with the field definition approach used last month. Underneath the surface, however, you'll see that quite a lot of code has changed, and as well as implementing the compound variable loop tricks already mentioned, some preliminary code, to allow any number of form 'records' to be stored, has been added.

At the moment, however, all that happens is that a 'dummy save' routine gets called and, as each record is selected for storage, the form data just gets written back to the Shell window (as a sort of 'visible prompt' to confirm that something is happening)! As the entering of each set of information is completed, the script will ask if you want to store the current record or not, and whether you want to enter further data. All these things are achieved with fairly mundane use of a CursorWrite() routine using these types of statements:

```
call
CursorWrite(raw_window,22,4,SCREEN_PROMPT3)
x$=Readch(raw_window,1)
if Upper(x$)=='Y' then call SaveData()
```

Another improvement to be found in this month's offering is that if, at any time while entering information, you want to scrap the currently displayed data, you can now just hit the ESCape key to clear the form and return to the first data input field again. In order to do this I've had to modify the CursorRead() routine so that it detects when the ESCape key is pressed. Because of the way the routine was designed, this was quite easy to do and simply involved defining an ESC variable (as the value '1B'x) and adding an additional ESC case to the routine's Select/When statements.

```
call CursorWrite(raw_window,10,4,FIELD1)
call CursorWrite(raw_window,10,34,FIELD2)
call CursorWrite(raw_window,12,4,FIELD3)
call CursorWrite(raw_window,14,4,FIELD4)
call CursorWrite(raw_window,16,4,FIELD5)
call CursorWrite(raw_window,18,4,FIELD6)
call CursorWrite(raw_window,20,4,FIELD7)
call ShowInputField(raw_window,10,4+Length(FIELD1)+1,16)
call ShowInputField(raw_window,10,34+Length(FIELD2)+1,7)
call ShowInputField(raw_window,12,4+Length(FIELD3)+1,37)
call ShowInputField(raw_window,14,4+Length(FIELD4)+1,37)
call ShowInputField(raw_window,16,4+Length(FIELD5)+1,37)
call ShowInputField(raw_window,18,4+Length(FIELD6)+1,10)
call ShowInputField(raw_window,20,4+Length(FIELD7)+1,10)
```

Listing 1: Last month's program effectively treated each field as an independent item

```
FIELD_COUNT=7
f.1.name='Surname:  '; f.1.r=10; f.1.c=4;  f.1.l=16
f.2.name='Initials: '; f.2.r=10; f.2.c=34; f.2.l=7
f.3.name='Address:  '; f.3.r=12; f.3.c=4;  f.3.l=37
f.4.name='          '; f.4.r=14; f.4.c=4;  f.4.l=37
f.5.name='          '; f.5.r=16; f.5.c=4;  f.5.l=37
f.6.name='Postcode: '; f.6.r=18; f.6.c=4;  f.6.l=10
f.7.name='Telephone:'; f.7.r=20; f.7.c=4;  f.7.l=10
```

Listing 2: The new style compound variable field definitions

```
DisplayForm:
do i=1 to FIELD_COUNT
call CursorWrite(raw_window,f.i.r,f.i.c,f.i.name)
end

ClearForm:
do i=1 to FIELD_COUNT
call
ShowInputField(raw_window,f.i.r,f.i.c+Length(f.i.name)+1,
f.i.l)
end
return
```

Listing 3: Compound variables allow short loops like these to handle any number of form setting up and reading operations

Picasso II

£249.95!

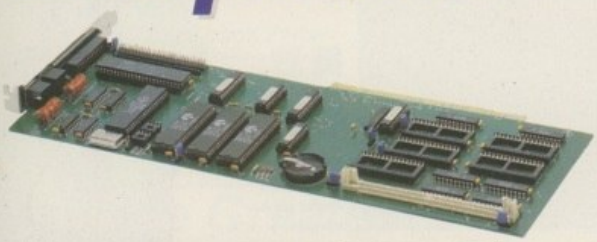
PICASSO II is the leading graphics card for any Zorro based Amiga. The Workbench emulation offers 256 colours, even on non-AGA machines (Requires OS3.1) at resolutions up to 1600x1280. Choose colour depths including HiColour (16 bit) and True Colour (24 bit). No "Chip RAM limitations" and an in-built Amiga video pass-through makes Picasso II the best value graphics card around!

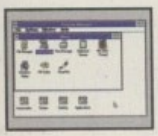
PABLO is the Video Encoder option for *Picasso II*, expanding it with two additional video ports, one standard Composite Sync Signal, and one S-VHS (Y-C) compatible port. All PAL compatible video devices can be plugged into Pablo, such as a colour TV or a video recorder.

At these great new prices, there has never been a better time to enhance your system to allow a 24-bit graphics capability!

Picasso II 1Mb	£219.95	*Picasso II 2Mb*	£249.95
Picasso II 1Mb + TVPaint 2	£369.95	*Picasso II + TVPaint 2*	£399.95
MultiMedia Picasso (Picasso II 2Mb, Pablo, MainActor Pro, Cinema 4D German)	£369.95	*Pablo Video Encoder*	£129.95

Emplant





Emplant can be used with any accelerated Zorro base Amiga. With Macintosh and PC emulation modules, Emplant is the Amiga`s only all-in-one emulation solution.

Macintosh® Emulation Module

- *A full 'generic' Macintosh with the speed dependent upon your processor. An A3000 is equivalent to a MAC IIci. An A4000 is equivalent to a Quadra 900.*
- *Support for up to 16 colours (non-AGA), 256 colours (AGA) or up to 24 bit colours using third party video boards such as Picasso II, CyberVision, Piccolo SD64, Retina etc.*
- *Built in intelligent multiple file transfer for transfers between the Amiga and MAC.*
- *Support for AmigaDOS devices, CD ROM, direct Scanning, MIDI, SyQuest, Printers, Modems etc. Total compatibility through on-board SCSI interface (Option B and Deluxe).*
- *Full 8 -bit stereo sound. Requires Macintosh II/IIx/IIcx/SE30 256K ROMs (not supplied).*
- *Supports all Floppy formats (Even 800K Mac drives with additional AMIA interface).*

e586DX/SX Emulation Module

- *MDA, CGA, EGA, VGA, SVGA video modes (AGA is required for VGA/SVGA).*
- *Sound, Joysticks, Floppy drives, AmigaDOS partitions, Extended Memory, and more!*
- *Print from Windows or DOS via Amiga parallel port.*
- *Use CD ROM drive with any Amiga sided CDROM drive.*
- *Will run programs that require greater than a 286 processor.*
- *Comes with both DX (FPU) and SX (no FPU) versions.*
- *Requires 486 PC BIOS, not supplied.*

Blittersoft are the exclusive European distributors for Utilities Unlimited, providing a full technical support, upgrade and warranty service.

EMPLANT BASIC	£239.95	*EMPLANT OPTION A (AppleTalk ports)*	£279.95
EMPLANT OPTION B (SCSI)	£279.95	*EMPLANT DELUXE*	£299.95
PC e586DX MODULE	£ 99.95	*AMIA*	£ 49.95

ARIADNE & LIANA NETWORKS

Ariadne offers a simple but effective Network solution for any Zorro based Amiga.

- *Two extra parallel ports.*
- *The industry standard software solution **ENVOY**.*
- *10Base-2 (Thin ethernet, coax cable) and 10Base-T (Twisted pair, western jacket).*
- *Socket for a boot ROM and 32Kb cache to support the CPU.*
- *SANA-II compatible driver for ethernet and parallel port.*

ARIADNE £219.95

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 ***ENVOY*** software.

LIANA £ 59.95

MAINACTOR BROADCAST

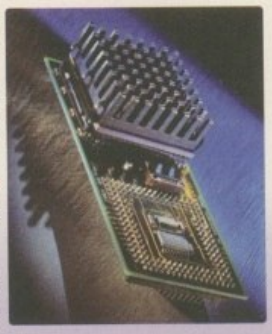
MainActor Broadcast is a completely new Animation program for any Amiga with OS2.04 or better.

- *Over 20 Load/Save modules (AVI, BMP, DL, FLI, FLC, GIF, IFF, IFF-Anim3/5/7/8/J, JPEG, PCX, QuickTime...) with AVI, QuickTime and JPEG support up to 24-bit.*
- *Index file for faster reloading of animations and playback from Hard Drive.*
- *Support for any graphics card for 24-bit as well as standard Amiga screenmodes.*
- *Effects modules to apply effects direct to animation (Text, Scroll, Scale, Rotate..)*
- *19 Sound modules for sound/music playback incl. compressed (OctaMed, SM3) in 8 and 16 voices.*
- *Joining, Convert, Split animations and autoswitch to optimal colour depth.*
- *AREXX-Port for external control, and support for MacroSystems multipic.library.*

MAINACTOR BROADCAST £179.95

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 with a faster 50MHz version already installed.* 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

DOUBLER 4000 50MHz ACCELERATOR £399.95

Why not call our support BBS or visit our support conference on CIX?

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 incl. 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

Upset in videoland

A press release from CEI in America sets Gary Whiteley off on the road to video harmony

The other day I saw a posting on CIX heralding the 'new A4000T.' It was attributed to Alex Amor's Creative Equipment International, an American company who'd been involved in the bidding for the Amiga before Escom finally snarfed it up.

It was headed 7 July 1995 – FOR IMMEDIATE RELEASE – and described how the A4000T will be 'positioned as a high-end video workstation.' It goes on to describe it as 'a tower-based model with the Motorola 68040 processor operating at 25MHz. Initial configurations are expected to be 6Mb of RAM and 540Mb hard disk. Introductory pricing is set for a street price of US$3499. CEI will be offering different configurations.....' Furthermore 'we realize that the price of the A4000T is slightly higher than we all would have wished. At the same token there is pent up market demand.....'

Now, knock me down with a feather but I couldn't help taking this with a very big pinch of salt. After all, CEI didn't win the bid, but had been making big noises that they were confident of winning. They've been out of the limelight for a while, so a message from CEI serves, if nothing else, to keep them on the map during these lean times.

Then came a contradictory message from Gilles Bourdin of Amiga Technologies GmbH in Germany, dated 14 July, which says that as yet there have been no firm distribution contracts or agreements signed for Northern America, nor have pricing levels been set for the A4000T. So just what is going on? Did CEI jump the gun? Did they dream this A4000T up themselves?

TURKEY

Let's look more closely at the spec. No monitor or CD-ROM is mentioned; the drive is quite small by high-end standards – 6Mb of memory isn't even enough to run that TV favourite LightWave, and other crucial programs such as Art Department Professional, ImageFX2 and Real 3D are all going to need more memory for serious TV work.

On top of that it doesn't say whether the A4000T will have any form of video output, so an encoder card or good-quality genlock will be required. This A4000T looks like a machine which is tailored to run something like Scala MM400 (not that I'm knocking MM400 – it's a great application) and not a 'real' video machine after all.

And then there's the price – US$3499! Even loosely translated into UK currency that's around £2190, or £2600 including VAT – and not even a monitor thrown in. Couple that with the relatively slow (by high-end standards) 25MHz '040 processor and the only conclusion I can come up with is that CEI have announced a real turkey.

A friend of mine has just bought a Pentium 90 PC costing around £2400. The price includes a 1Gb drive, 15" multisync monitor, 16Mb RAM, sound card, 24-bit graphics card, speakers and a quad-speed CD-ROM! And it runs LightWave like a dream, knocking off a full overscan, antialiased render with refraction and reflection in a matter of minutes. In fact, when I phoned him he was rendering the textures example and it took less than three minutes to do the business. I can't see a 25MHz '040 even getting close.

Okay, his PC will need a few more add-ons to achieve full video compatibility, but, unlike five years ago, these extras are becoming more and more accessible to PC users. There's now a PAR card for the PC, and genlocks, video processors, framegrabbers and edit controllers are all readily available. The A4000T will also need additional hardware, which might include a PAR card and a framegrabber. A 24-bit card would also be very useful, plus all the bells and whistles (memory, CD-ROM, monitor, big hard drive, etc) which are no longer luxuries for serious video producers and animators.

The A4000T – will it have any form of video input?p

Now, let's hope that all this is theoretical, and that the new A4000T will not only have reasonably priced bundle options, but that the base machine itself will not make a Pentium PC or well-appointed Mac look even more tempting than they already do. It's one thing relying on the Amiga's video reputation to sell it, but Escom/Amiga Technologies are going to have to come up with something really special to keep video folks on their side.

After all, PC and Mac development continues apace while Amiga R&D appears to have ground to a halt, developers are still waiting to be contacted by Amiga Technologies, and a new high-end Amiga will still only be playing catch-up with current PC and Mac systems by the time it hits the streets – unless some rapid behind the scenes developments are going on.

This is not a good state of affairs to be in, even if you're the most rabid of Amiga supporters. If I was in the market for a video/graphics Amiga I'd want one which could see off the competition, and at a sensible price. I'd want a built-in video output which was at least composite, preferably S-VHS (or even both), even for lesser machines such as the A1200 or rumoured A1300.

Until Amiga Technologies take a good hard look at what Amiga users actually require for high-end video applications and come up with some solutions, I can only conclude that this A4000T price and spec certainly isn't going to cut it. For all our sakes, let's just hope that CEI's message was low on substance and high on hype. Only time, and Amiga Technologies, will tell.

The source

Thanks to Jeff Walker of JAM for posting the original messages on CIX.

Gary Whiteley can be e-mailed as drgaz@cix.compulink.co.uk.

TIFFYTECH PD *Best value disks around*

COMPILATION UTILITY DISKS

CU001: CRUNCHERS V1: Imploder 4, Powerpacker, Stonecracker, + more.
CU002: ARCHIVERS V1: Compilation of the very best archivers.
CU003: WB TOOLS V1: Add Tools, Task control, Assign Manager, + lots more.
CU004: DOS TOOLS V1: Dos Trace, Powershell, Multidos, Snoopdos, + more.
CU005: GRAPHICS V1: Gif, Imagelab, Model4D, Mpeg Player, View, + more.
CU006: GRAPHICS V2: Minimorph, PPshow 4, SpiraDraw, Pic2Ansi, + more.
CU007: ICONS V1: Brush to Icon, Newicons.
CU008: ICONS V2: Iconion, Iconmaster, Iconpack, Swapcols.
CU009: WP + DTP V1: AmigaFox, Jed, TextEngine, Typist.
CU010: BOOTUTILS V1: BootJob, Fast Intro Maker, Bootintro, + more.
CU011: A1200 V1: Degrader, Midnight, Palettreq, Fakemem, Runshit, + more.
CU012: DISK UTIL V1: Diskmate, Diskspare, Filemaster 2, Nclick 2, + more.
CU013: HD UTILS V1: Chopper, Kwickbackup, Qfind, S-Pack, TDM, + more.
CU014: BUSINESS V1: Amigadex, Calc, TeleBase, Database 2.3, QED, + more.

COMPILATION GAME DISKS

CG001: Amobea Invaders, Bobs Garden, Defender, Digger.
CG002: Croak, Dlux Galaga, Megaworm, Mouthman.
CG003: Arcadia, Bugblaster, Tanx, Zerberk.
CG004: Amigatration, Asteroids 2, Aztec Challenge, Missile Command.
CG005: Dictator, Dragontiles 2, Revolution, Vchess.
CG006: Cybernetix, Parcheese, Tankattack, Top Hat Willy.
CG007: Doody, Microbes, Mouse Impossible, Tettrix.
CG008: Dlux Pacman, Drip, Quickmoney.
CG009: Workbench Games Vol 1 (Too many to mention here!).
CG010: Cow Wars, Descender, Hotair.
CG011: Artillerus, Paranoids, Wordsearch, Retchasketch.
CG012: Biplanes, Minesweeper, Dessert Defnder, Exile.
CG013: Bridgeball, AmosCoinDrop, Cluedo, Gammon.
CG014: Jumper, Airace, Euphorion, Video Poker.
CG015: Wipeout, 3D Tic Tac Toe, Dynamitewar, Octothello.
CG016: Adventure, Cellest, Drivewars, Fleuch.
CG017: Galactoid, Imperial, Lines, WBrain.
CG018: Lothian, Blaster, Dr Mario.
SPECIAL PACK OFFERS – You can get all these at less than 35p a game! And the utilities at less than 25p a title. See box below for our great offers.

SINGLE UTILITY DISKS

U001: AmigaBase V1.3. Good database.
U002: OctoMED V2. Best pd Music editor.
U003: Cartographer.
U004: Dice (^). C programming environment.
U005: Kingfisher 2 (^). Fish disk database.
U006: Hardware Hacks Vol 1 (A500 & A500P).
U007: Hardware Hacks Vol 2 (A500 & A500P).
U008: BDG – Great guide to the Internet!
U009: Viewtek – Good picture Viewer.
U010: Term V4 (3 Disks). Comms package.
U011: Dynamite Fonts (2 disks) IFF Format.
U012: Exile fonts – more IFF fonts.
U013: Gelignite fonts – Yet more IFF fonts.
U014: Optiutils (2 disks) – loads of utilities.

(^) = HD essential + archived with lha.

SINGLE AGA GAMES

A001: Tetris Duel AGA.
A002: Motorola Invaders (2 disks).
A003: Hoi AGA Remix.
A004: Megaball AGA.

ALSO AVAILABLE:

Fred Fish 1 – 1000, Mods, Pics, Clipart, Fonts, Amos, + lots more.

SPECIAL PACKS:
Pack 01 (CU001-CU020) £26*
Pack 02 (CG001-CG018) £24*
*No free disk offer or p&p

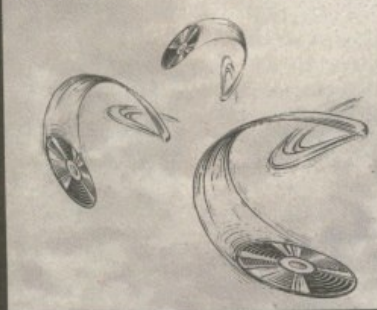
SINGLE GAME DISKS FOR ALL MODELS

G001: Dlux Galaga V2.
G002: Overlander.
G003: Pengo 2.
G004: Reflection.
G005: Star Woids (2 Disks).
G006: Incinerator.
G007: Kill Those Little Doods.
G008: Last Refuge.
G009: Fighting Warriors.
G010: Dr Strange.
G011: Space Invaders II.
G012: Catacomb.
G013: Blackdawn.
G014: MegaBall 3.
G015: Create Adventure Games.

ORDERING!

DISK PRICES:
Compilation disks.....£2.00 each
Single disks 1-4.....£1.50 each
Single disks 5+.....£1.00 each
POSTAGE & PACKING:
UK please add.....70p per order
WORLDWIDE (min 2 disks)
please add.....50p per disk
Please make cheques/postal orders payable to **D. TIFF** and send to:
102 Robin Hood Gdns, Poplar, London E14 OHW
FREE!! Choose 1 free disk with every 10 that you order! REMEMBER that some titles are more than 1 disk!!

E.M.COMPUTERGRAPHIC's PD/Shareware Library CD Collection



The largest and most highly praised collection of high quality DTP & DTV PD & Shareware in AMIGA history!

These CDs are being developed, designed & distributed only by E.M.Computergraphic. This is the only way we can have complete quality control over all aspects of their production.

The RRP price for each CD is £24.99 + £1.00 UK pp
For First class recorded Airmail...Europe add £4.00 pp & Rest of World add £6.00 pp

These CDs are aimed directly at Amiga users, and are **not** designed for multi platform computer use. This means that you won't get CDs loaded with PC files that you cannot use! To aid in the rapid location of font, clipart & image data, each of the 3 CDs will contain...IFF font previews for EVERY font, you simply click on the preview icon to SEE the font! The clipart and image directories have been FULLY sorted and ALL directories include full IFF preview thumbnail index screens (and also descriptive filenames) Purchasers of the CDs will also have the option to buy a typeface book, published especially for each of the EMC CDs, containing FULL font printouts!

All in all...these CDs will offer you the legendary quality and organisation that EMC's massive worldwide database of customers (and reviewers) have grown to expect!

Unlike most of the CDs currently available...**THESE CDs ARE NOT FILLED WITH JUNK!**

The first disk - ***EMC PHASE 1*** - will be released on...***Monday 11th September 1995***

PHASE 1 - RELEASE DATE: 11.09.95

Fonts Type1 **EMC** 4,5,6 7,16 - CG **EMC** 8,9,10,24,24 - PDraw **EMC** 18,19,20 & 52 Clipfonts

Clipart Fully sorted into sub-directories (number of directories listed in brackets)
IFF Animals (114), Fantasy(27), Music(12), People(73), Religion(12)
IFF Col Birds, Cars, Cats, Dinosaurs, Dogs, Fish, Horses, LionKing, Music, Planes & Reptiles.
EPS Animals, Buildings, Computers, Food, Logos, Office, People, Transport, USA & World.

Images (in IFF 16 colour, Ham interface and IFF 256 colour formats)
Animals, Balloons, Blake7, Cars, Conan, Dragon Lance, Fantasy, Horses, Natural, Planes, Racing, Renders, Reptiles, SnowScenes, Space, Star Trek (TOS&Movies) Trains, 67+mb of 736 x 566 Video Backdrops in IFF 16 & 256 colour formats.

Other Stuff
All Pagestream3 updates to version 3.0H, Complete Opalvision2.3b update, Typesmith2.5a update and Demo, Pagestream2 Demo, 18 really useful Utilities and heaps of other stuff!

PHASE 2 - RELEASE DATE: 06.11.95

Fonts Type1 **EMC** 17,27,29,77 - CG **EMC** 25,26,30,31,82 - Colour **EMC** 48,49 & 71 Imagine

Clipart Fully sorted into sub-directories (number of directories listed in brackets)
IFF Alphabet(4), Borders(16), Buildings(6), Cartoons(17), Computers(7), Education (5), Electric (6), Food (90), History (5), Natural (59), Space&SciFi (3)
IFF Col Fruit, World Maps (of every country on Earth!), Ships, Vegetables
GEM Arrows & Stars, Borders, Buildings, Clipart, Office, OtherStuff, Photo, Transport.
IMG Animals, Cartoons, Food, OtherStuff, People, Plants, Sports, TheArts, Transport, Xmas.

Images (in IFF 16 colour, Ham interface and IFF 256 colour formats)
America, Babylon5, Birds, BorisV, Britain, Dogs, Egypt, EQuest, Famous People, Girls, Kelly, Military, NightBreed, Panoramas, People, SciFi, Terminator, Textures, Star Trek (TNG), V, Water Scenes, Wildcats, World, World People and 70+ megabytes of 736 x 566 Video Backdrops in IFF 16 & 256 colour formats.

Phase1 PRE RELEASE OFFER...£19.99 + pp...ON ORDERS RECEIVED BEFORE 8th SEPTEMBER

Credit card and postal order orders will not be processed/banked until the day of CDs release & CDs will be dispatched the same day. Cheque orders are subject to 5 working day clearance/dispatch. If you wish to receive your CD as soon as possible after it's launch, we require written permission allowing us to bank your cheque 5 days prior to the launch date.

MasterCard VISA DELTA EUROCARD

E&OE

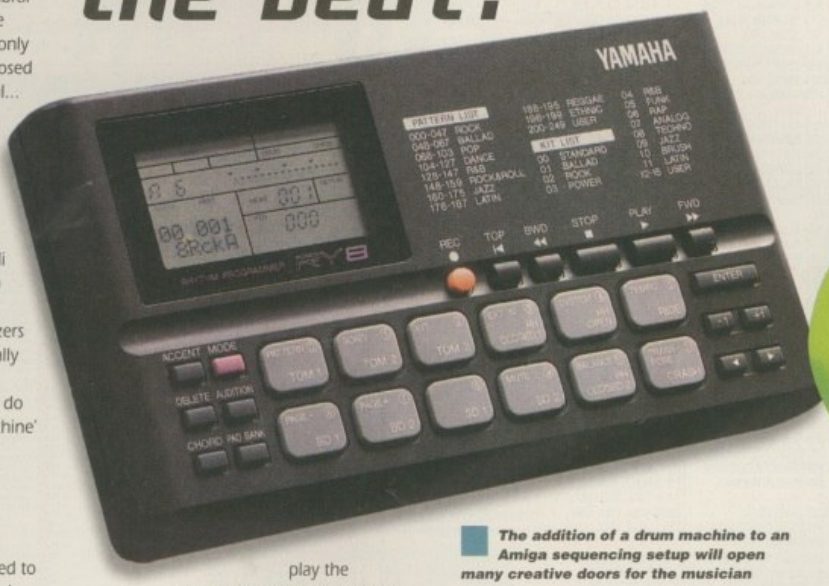
Cheques / Postal Orders payable to: E.M.COMPUTERGRAPHIC
Cheques are subject to 5 working day clearance

E.M.COMPUTERGRAPHIC

8 EDITH ROAD, CLACTON, ESSEX. CO15 1JU
Tel : 01255 431389 Fax: 01255 428666

EMC

Are you missing the beat?



The addition of a drum machine to an Amiga sequencing setup will open many creative doors for the musician

Given the versatility of almost all synthesizers, you might well imagine that it would be quite easy to produce drum/percussion accompaniment by just selecting suitable drum sound voices. In fact, it isn't quite that straightforward because, set up in the conventional way, a multi-timbral synth would only be able to play one voice group setting per channel. So even if you only wanted a bass drum, a snare, open and closed hi-hats, a couple of tom-toms and a cymbal... you'd still use up seven Midi channels and a large chunk of your multi-timbral capabilities.

The solution to this difficulty was solved years ago and involves a slightly different arrangement whereby all percussion events are sent on just one Midi channel with the note value being used to indicate which particular drum/percussion voice should sound. Now, newer synthesizers often have facilities like these built in (usually on Midi channel 10) but many older instruments will not, and the best thing to do in these cases is add a separate 'drum machine' to your Midi set up.

SOPHISTICATED SOUNDS

Drum machines nowadays are quite sophisticated and often use sampled (i.e. digitised real percussion sounds) as opposed to synthesized sounds, and even the pitch and volume of individual drum's voices may be altered. Loads of preset rhythm patterns will also be provided, many of which will make good starting points for creating your own percussion tracks.

When you start a drum machine playing you'll not only hear the percussion sounds via its audio connections but the unit will be transmitting Midi data as it plays. The messages transmitted may include start/stop information, timing clocks, and the drum-note data itself. Of course, the reverse procedure also applies and if the drum machine is sent Midi data it will play the appropriate percussion voices.

As far as the recording of percussion tracks is concerned, it is much the same as recording ordinary synthesizer data. You start the unit playing and just record the Midi data generated at the Midi Out terminal. There is, however, one thing that you do have to bear in mind – you must not transpose drum channel data. Since specific drums and percussion instruments are represented by particular Midi notes, any change in these note values would change the actual percussion voices being played.

The effect of inadvertently transposing a drum part will, on playback, sound disastrous – recorded bass drums might turn into cymbals, the snare drum might vanish, and the overall effect is invariably to make the drum/percussion track sound almost unrecognisable. Obviously, it is something that is easily fixed by re-transposing the data back into its original key (thus restoring the original note values). Some Amiga sequencers (like Dr T's KCS) allow you to 'protect' a specified Midi channel from transposition and this is very convenient because it allows you to carry out all normal transposition operations knowing that the note values of the drum/percussion data inside your drum tracks will not be altered.

Drum machines (and integral synthesizer percussion facilities come to that) vary enormously in the number of different percussion sounds they can provide. Unfortunately, prior to General Midi, there was little standardisation between different manufacturers as far as which note numbers represent which drum sounds. The note, which on one drum unit plays a crash cymbal, could well produce a 'High Bongo' sound when sent to another machine. Needless to say, this is something which many users just have to live with and it really only causes major problems if you are using material that is either intended for, or created by, someone else who is using a different drum machine.

As far as creating suitable drum patterns is concerned, the situation for the beginner is very good indeed. Firstly, you'll be able to use the rhythm patterns and styles available on the percussion unit itself. Secondly, you'll find that local music stores will stock a number of books which provide details of popular and useful drum patterns written in easy-to-understand 'block notation' style.

Tricks of the trade

It is sometimes said that drum machines can produce monotonous drum parts. They can – but this is almost always due to how the drum patterns were programmed in the first place. The big question is... what can you do about it and, most of the time, it comes down to attention to detail. A common problem is getting the accents right on hi-hat parts. Some accent pads have limited capabilities – even though the drum machine may be fully velocity sensitive via Midi. In these cases, it's usually best to drive it from a touch sensitive keyboard but you'll find, by experimenting, that a lot can also be done by editing the data using your sequencer.

It's been recognised for some time that if you take a perfectly quantised drum pattern and marginally alter the position of the snare drum, i.e. pull it back or push it forward, then the whole 'feel' of the pattern can change. You can do this sort of thing quite easily via most sequencers simply by recording each drum on a separate track and adjusting the individual start positions.

As well as altering the feel of a drum pattern track, you can 'thicken up' weak sounding drums by taking the drum track (or a part of it), duplicating it onto a second track, shifting it along by a small time interval, and playing the resulting tracks simultaneously. Done selectively it can be very effective, especially when using hard-left/hard-right stereo panned sound outputs.

All these sorts of tricks come with practice and most users find that, within a few weeks of starting to use a drum machine, they are getting excellent results. Yamaha and Roland drum machines are available at quite reasonable cost, and with many shops offering second-hand units at bargain prices nowadays, it's never been easier to add extra percussion facilities to your Midi set up. If you don't believe me, take a walk down to your local music shop and see what's on offer yourself!

If your existing Amiga Midi set up is somewhat lacking in the percussion department then Paul Overaa has just the answer

FREE FREE GAMES CHEATS 1.4 EMULATOR ON ALL ORDERS

UNDERGROUND P D

FREE FREE LIBRARY DISK POST & PACK ON ALL ORDERS

PLATFORM GAMES
☐ 998 LEMMINGS T.R.W.
☐ 1017 GLASSBACK V2
☐ 980 A12 KELLOGS LAND
☐ 020 LEMMINGS ARCADE
☐ 791 DOCTOR STRANGE
☐ 715 SUPER BLUE KID
☐ 188 CRAZY SUE V2
☐ 961 JUDGEMENT DAY
☐1036 NESQUICK GAME
☐1063 SPACECASE NO 1.3

SPACE BLASTERS
☐1083 DE-GALAGA 2.5
☐ 911 SOLO ASSAULT
☐ 906 OBLITERATOR
☐ 031 OBLIVION
☐ 805 TRANS-PLANT
☐ 498 THE LAST REFUGE
☐ 596 GORF INVADERS
☐ 343 CYBERNETICS
☐ 679 STAR-RIANS
☐ 548 CAFFEINE FREE

ARCADE GAMES
☐1002 DYNO WARRIORS V2
☐ 555 HUGO V2 5 DISK
☐ 875 MISSILES 2 DISK
☐ 976 BEAVIS & BUTTHEAD
☐ 429 ZOMBIES APOCAL
☐ 870 ROCKETZ A1200
☐ 975 SUICIDE MACHINE
☐ 273 KELLOGS EXPRESS
☐ 912 RUDOLF – SANTA
☐ 916 GAME HOI A1200
☐ 952 NANO FLY
☐1062 M.A.S.H. V1
☐1052 CHAR V1
☐1061 BUZZBAR NOT 1.3
☐1113 NIMBLE NOT 1.3

P.D. VERSIONS
☐ 024 ELF & PP HAMMER
☐ 025 HUNTER PLUS
☐ 022 GODS-TI/MACHINE
☐ 026 ROBOCOP-T/RECALL
☐ 522 OSCAR CD A1200
☐ 815 LEMMINGS PACK
☐ 027 CHUCK ROCK-ICE
☐ 1075 A1200 ELFMANIA

COMBAT GAMES
☐ 941 FATAL BLOWS
☐ 938 MARTIAL SPIRIT
☐ 290 FIGHT WARRIORS
☐ 930 A.B.H. A12 6 DISK
☐ 492 KARATE WARRIORS
☐ 1068 2DSK CYBERFIGHT

CLASSIC GAMES
☐ 225 BOMBJACK NOT A12
☐ 011 ASTEROIDS
☐ 693 MISSILE COMMAND
☐ 778 OVERLANDER
☐ 692 SPACE INVADERS
☐ 308 DONKEY KONG ALL

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
☐1072 SUPER-DRIVE
☐1067 SKID-MARKS V2
☐1055 3DSK HYPER-RACE
☐1059 MANSELL NOT 1.3
☐1057 A12 TURBO-JAM

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
☐ 821 PASSWORD MANIA
☐ 813 GAME TAMER V4.5
☐ 820 MEGA CHEATS
☐ 681 SIERRA SOLUTIONS
☐ 019 GAME TAMER V2.3
☐1118 UP TO DATE V1

OVER 18 GAMES
☐ 101 TERROR LINER V1
☐ 712 TERROR LINER V2
☐ 997 2DKS ADVENT 1
☐1001 2DSK ADVENT 2
☐1081 ADULT TETRIS

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
☐1074 STATIX NOT 1.3
☐ 472 GAMEBOY TETRIS

PAC-MAN GAMES
☐1096 A12 PUC-MAN
☐ 923 BOMB32 PAC/M A12
☐ 230 SUPER PAC MAN
☐ 102 LADYBUG PAC MAN
☐ 592 PAC MAN RETURNS
☐ 252 YUM YUM PAC MAN
☐ 397 DELUXE PAC MAN
☐1070 PLAT-MAN
☐1096 PUC-MAN

BREAK-OUT & PONG
☐ 003 MEGABALL V1
☐ 459 MEGABALL V2
☐ 559 MEGABALL V3 NOA5
☐ 007 BATTLE PONG
☐ 421 REBOUNDER PONG

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
☐1073 CARD PACK
☐ 939 CASH CARDS NOT1.3
☐ 598 PIN BALL NOT 1.3
☐ 222 FRUIT MACHINE
☐ 932 MEGA FRUITS
☐ 010 POKER ARCADE
☐ 375 CARDS SOLITAIRE
☐1073 CARD PACK
☐ 560 DARTS NOT 1.3
☐ 497 WINNING POST
☐1112 A12 CARDS V3

BOARD GAMES
☐ 910 NEW MONOPOLY STAT
☐ 032 MONOPOLY USA
☐ 631 SCRABBLE
☐ 296 RISK (GLOBE-WAR)
☐ 015 WAR ANIMATED
☐ 476 CHESS GAMES

ADVENTURE GAMES
☐1019 ADVENTURES 3
☐1018 MORIA VERSION 3
☐ 116 STAR TREK 2 DISK
☐ 482 BLACK DAWN
☐ 297 NEIGHBOURS 2 DISK
☐ 962 FEARS A1200 DOOM
☐ 954 D.O.N A1200 3 DISK
☐1038 SEED OF DARKNESS
☐1087 A12 ENDURANCE

STRATEGY GAMES
☐ 967 COL-CON V2 NOT 1.3
☐ 968 KINGDOMS AT WAR
☐ 810 TASK FORCE
☐ 876 GLOBAL NUKE WAR

PUZZLER GAMES
☐ 953 CHANEQUE 2 DISK
☐ 914 JINX A1200 2 DISK
☐ 859 TEN PUZZLES NOA12
☐1066 MINDBENDERS V1

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
☐ 1031 5DSK STAR TREK
☐ 716 POP MUSIC QUIZ
☐ 309 THE QUIZ MASTER
☐ 462 WHEEL OF FORTUNE
☐1033 TAZ QUIZ NOT 1.3

LOGIC GAMES
☐ 603 EXIT 13
☐ 119 DRAGON'S TILES
☐ 112 DRAGON'S CAVE
☐ 323 OXYD LOGIC
☐ 530 OTHELLO
☐1037 MARBLES GAME
☐1035 ATOMIC GAME

AMIGA LEISURE
☐1027 COP THE LOT PRO
☐ 444 GOLF DATABASE
☐ 940 LOTTERY WINNER
☐ 205 AMIGA PUNTER
☐ 228 PERM CHECKER
☐ 886 LEAGUE EDITOR

A1200 MEGADEMOS
☐1015 2DSK TAZ-QUEEN
☐1104 2DSK OXYGENE 2
☐1087 SHAKKA LAKKA
☐1010 ROOTS 18
☐ 995 ZOOT JE
☐ 624 2 DISK SNAKE RIDE
☐ 782 COMPLEX REALITY
☐ 996 SOUL KITCHEN 2 DISK
☐ 963 2 DISK SWITCHBACK

AMIGA MEGADEMOS
☐1084 ASCII NOT 1.3
☐ 460 TEKNO RAVE
☐ 430 2 DISK DATA X
☐ 217 MEGA ALCATRAZ
☐ 269 DIGI INNOVATION
☐ 449 2 DISK 9 FINGERS
☐ 262 2 DISK PREDATORS
☐ 215 BLUES HOUSE 2 DISK
☐1114 FUDGE AGA
☐1087 SHAKKA LAKKA
☐1105 OXYGENE V1
☐1104 2DSK OXYGENE
☐1120 2DSK TAZ-QUEEN 2

A1200 SLIDE SHOWS
☐ 740 4 DISK MANGA
☐ 507 5 DISK WEIRD/SCI
☐1040 3DKS AGA GIRLS

AMIGA SLIDE SHOWS
☐1107 5DSK BOLDLY GO
☐ 704 REVELATIONS
☐ 061 PAT NAGEL'S GIRLS
☐ 918 ERIC'S GIRLS 2 DISK
☐ 936 AVIATION HISTORY
☐1060 3DSK LION KING
☐1117 2DSK TREK GUIDE

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 SD 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 S - MOOVIE

MUSIC MAKERS
☐1099 QUADRAPLAYER
☐ 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
☐ 618 MUSIC DATABASE
☐ 981 AUDIO ENGINEER

CLASSIC - POP
☐1088 MELLOW CD MIX
☐ 201 PIANO CLASSICS
☐ 234 VIVALDI 2 DISK
☐ 342 AMIGA-DEUS
☐ 213 DIGI CONCERT V2
☐ 620 BAGPIPE MUSIC
☐ 248 EXPRESSION V2
☐ 473 RHYTHM'S DANCER
☐1029 COTTONEYE SONG

SAMPLES - MODS
☐ 660 KORG 01W B 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
☐ 719 4DKS C64 + GAMES

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 B 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 COLBRUSH
☐ 633 7 DISK CLIP ART
☐ 901 9 DISK WORLD MAP

MONO CLIP ART
☐ 172 15 DISK PORTFOLIO
☐558 7 DISK CLIP ART

AMIGA MODEM
☐1085 TAZ BBS LISTINGS
☐ 413 N. COMMS V3
☐ 079 OPTICOMMS V2
☐ 690 TERM 2 DISK
☐ 801 DMS PRO

PROGRAMMERS
☐ 288 A-BASIC TUTOR
☐ 481 ABOUT AREXX
☐ 383 E. MODUAL
☐ 156 SOZOBON C.
☐ 362 C. TUTOR 12 DISK
☐ 306 UNDERSTAND AMOS
☐ 722 TONS OF AMOS
☐1067 AGA DATATYPES
☐1034 DION AGA TOOLS

DO IT YOURSELF
☐1097 2DSK HELM NO 1.3
☐ 239 SLIDESHOW MAKER
☐ 381 ADVENTURE MAKER
☐ 808 MAKE A DISK
☐ 242 MENU MAKER
☐ 585 2 DISK PARNET
☐1032 MAX B.B.S. KIT

VIRUS CONTROL
☐ 506 A1200 VIRUS
☐ 160 M.V.K. PLUS
☐ 993 VIRUS 2

AMIGA UTILITIES
☐612 3 DISK TOOL-KIT
☐1076 AGA TOOL-BOX

DISK & SYSTEM
☐ 166 SYSTEM TESTER
☐ 467 FILE UNDELETE
☐ 194 DISK OPTIMISE
☐ 356 ENGINEER'S KIT
☐ 245 FIX DISK
☐ 168 HARDWARE MANU-AL

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:.....

Dept AC995
Zone 1 Ltd.
PO Box 69,
Stone,
Staffordshire
ST15 8GH

FREE CATALOGUE
Over **2,000** titles

Zone 1
'the software people'

Zone 1

The price you see, is the price you pay, V.A.T., P&P are ALL included.

SWITCH · Access · CHEQUE · MasterCard · VISA · DELTA

Great prices, same day despatch, free gifts, regular prize draws.

Amiga

A1211 A-TRAIN & CONSTRUCTION SET 11.99
A0071 AIR BUCKS V1.2 ..... 11.99
A0252 ALIEN BREED SPECIAL EDITION 7.99
A0480 ALL TERRAIN RACER 16.99
A0125 ANOTHER WORLD 9.99
A0386 ARCADE POOL 6.99
A0137 ARCHER MCLEANS POOL 11.99
A0287 AWARD WINNER 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
A0507 BIRDS OF PREY 11.99
A0251 BLACK CRYPT 9.99
A0042 BODY BLOWS 9.99
A0161 BODY BLOWS GALACTIC 17.99
A0225 BRIAN THE LION 16.99
A0001 BUBBA N STIX 9.49
A0129 BUMP 'N BURN 19.99
A0514 CADAVER & PAY OFF 11.99
A0510 CANNON FODDER 2 ..... 19.99
A0517 CHAMPIONSHIP MANAGER ITALIA 95 ..... 15.99
A0385 CHAMPION MANAGER COMPENDIUM 17.99
A0705 CLASSIC COLLECTION (DELPHINE) 19.99
A0745 CLASSIC COLLECTION (LUCAS) 19.99
A0395 COMBAT CLASSICS 2 ..... 19.99
A0012 COMBAT CLASSICS 5 ..... 22.99
A0227 CORPORATION 9.99
A0518 CRYSTAL DRAGON 19.99
A0083 CURSE OF ENCHANTIA 11.99
A0504 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 19.99
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
A0017 F29 RETALIATOR 9.99
A0691 FIFA INTERNATIONAL SOCCER 22.99
A0350 FIRST ENCOUNTERS 19.49
A0002 FLASHBACK 19.99
A0189 FOOTBALL GLORY 17.99
A0188 GRANDSLAM CLASSICS 13.99
A0415 GUNSHIP 9.99
A0084 HEIMDALL 7.99
A0085 HEIMDALL 2 ..... 22.99
A0512 HELP! 25.99
A0152 IMPOSSIBLE MISSION 2025 ..... 19.99
A0690 IND. JONES FATE OF ATLANTIS (ACT) 6.99
A0161 IND. JONES FATE OF ATLANTIS (ADV) 23.99
A0211 IND. JONES & THE LAST CRUSADE 11.99
A0020 ISHAR 1 ..... 21.99
A0416 JAGUAR XJ220 ..... 6.99
A0586 JUNGLE STRIKE 16.99
A0679 MEGWITER 9.99
A0499 MEGA 5 SUPER FULCRUM 9.99
A0009 MORTAL KOMBAT 2 ..... 19.99
A0039 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
A0249 PROJECT X 9.99
A0209 RAILROAD TYCOON 11.49
A0136 ROAD RASH 9.99
A0019 REACH FOR THE SKIES 11.49
A0566 SECRET OF MONKEY ISLAND 2 ..... 12.49
A0565 SENSIBLE WORLD OF SOCCER 19.99
A0510 SHADOW FIGHTER 16.99
A0206 SIMON THE SORCERER 22.99
A0674 THEME PARK 22.99
A0647 TOWER ASSAULT 12.99
A0594 TRIPLE ACTION PACK VOL. 6 ..... 9.99
A0508 VALHALLA & LORDS OF INFIN 19.99
A0229 UNIVERSE 11.99
A0951 VOYAGES OF DISCOVERY 19.99
A0941 WEMBLEY RUGBY LEAGUE 16.99
A0245 XENON 2 ..... 7.99
A0959 ZEEWOLF 19.99

Educational

A0589 ADI ENGLISH (14-15 YEARS) 16.99
A0539 ADI FRENCH (11-12 YEARS) 16.99
A0531 ADI FRENCH (12-13 YEARS) 16.99
A0515 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
A0525 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
A0532 FUN SCHOOL 3 (5 YEARS) 15.99
A0351 FUN SCHOOL 3 (5-7 YEARS) 16.99
A0333 FUN SCHOOL 3 (5-7 YEARS) 15.99
A0529 FUN SCHOOL 4 (5 YEARS) 16.99
A0530 FUN SCHOOL 4 (5-7 YEARS) 16.99
A0528 FUN SCHOOL 4 (7-11 YEARS) 16.99
A0414 KID PIX 16.49
A0335 NODDYS BIG ADVENTURE 16.99
A0536 NODDYS PLAYTIME 16.99

Amiga 1200/4000

GI0230 ALADDIN 19.99
GI0001 ALL NEW WORLD OF LEMMINGS 19.99
GI0054 BALDIES 19.99
GI0052 BANSHEE 19.99
GI0053 BIG RED ADVENTURE 24.99
GI0047 BLOODNET 22.99
GI0781 BODY BLOWS GALACTIC 19.99
GI0055 BRUTAL: PAWS OF FURY 19.99
GI0045 BRUTAL: FOOTBALL DELUXE 15.99
GI0058 BUBBLE & SQUEAK 19.99
GI0046 BURNING RUBBER 16.99
GI0048 BURNTIME 16.99
GI0050 CIVILISATION 16.99
GI0055 DENNIS 17.99
GI0025 DETROIT 22.99
GI0016 DREAMWEB 22.99
GI0029 FIELDS OF GLORY 22.99
GI0049 FIRST ENCOUNTERS 19.49
GI0005 FOOTBALL GLORY 15.99
GI0010 GUARDIAN 19.99
GI0024 GUNSHIP 2000 ..... 22.99
GI0026 HEIMDALL 2 ..... 22.99
GI0030 HIGH SEAS TRADER 22.99
GI0034 IMPOSSIBLE MISSION 2025 ..... 22.99
GI0009 ISHAR 3 ..... 20.99
GI0039 JAMES POND 3 ..... 19.99
GI0068 JUNGLE STRIKE 17.99
GI0037 KICK OFF 3 ..... 19.99
GI0787 LION KING 19.99
GI0027 LORDS OF THE REALM 22.99
GI0019 ON THE BALL LEAGUE EDITION 20.99
GI0020 ON THE BALL WORLD CUP ED 20.99
GI0040 OUT TO LUNCH 16.99
GI0021 PGA EUROPEAN TOUR 17.99
GI0008 PINBALL ILLUSIONS 19.99
GI0023 PREMIER MANAGER 3 ..... 16.99
GI0100 RISE OF THE ROBOTS 27.99
GI0001 ROADKILL 19.99
GI0030 SECOND SAMURAI 19.99
GI0130 SHADOW FIGHTER 17.99
GI0002 SHAQ FU 17.99
GI0004 SIM CITY 2000 ..... 22.99
GI0031 SKELETON KREW 22.99
GI0239 SUPER STARDUST 19.99
GI0015 SUBWAR 2050 ..... 22.99
GI0056 T.F.X. 25.99
GI0003 THEME PARK 22.99
GI0033 TOP GEAR 2 ..... 16.99
GI0057 TOWER ASSAULT 19.99
GI0051 TOWER OF SOULS 19.99
GI0060 U.F.O. 22.99
GI0057 ULTIMATE FOOTBALL MANAGER 21.99
GI0021 WEMBLEY INTERNATIONAL SOCCER 16.99
GI0115 ZOOL 2 ..... 17.99

CD 32

CO601 ALIEN BREED SPECIAL/QWAK 16.99
CO005 ARCADE POOL 13.99
CO002 BANSHEE 19.99
CO007 BATTLECHESS 19.99
CO025 BATTLETOADS 16.99
CO033 HEAVEN 16.99
CO941 MERCENARY 2 ..... 19.99
CO045 BRIAN THE LION 16.99
CO034 BRUTAL FOOTBALL 7.99
CO036 BUBBA N STIX/PREMIERE 13.99
CO041 BUBBLE & SQUEAK 19.99
CO025 BUMP & BURN 19.99
CO060 CANNON FODDER 19.99
CO066 CASTLES 2 ..... 19.99
CO005 CD EXCHANGE VOL. 1 ..... 13.99
CO032 CHAMBERS OF SHAOLIN 16.99
CO057 CHUCK ROCK 1&2 TWIN PACK 13.99
CO502 DEATH MASK 19.99
CO051 DISPOSABLE HERO 19.99
CO032 DONK 11.49
CO049 DRAGONSTONE 19.99
CO057 ELITE 2 ..... 14.99
CO047 EMERALD MINES 11.49
CO011 FIELDS OF GLORY 19.99
CO022 FIRE AND ICE 16.99
CO059 GLOBAL EFFECT 7.99
CO952 GUARDIAN 19.99
CO040 GUNSHIP 2000 ..... 19.99
CO912 HEIMDALL 2 ..... 22.99
CO026 HI MANS 1&2 ..... 19.99
CO027 IMPOSSIBLE MISSION 2025 ..... 19.99
CO005 INT'L SENSIBLE SOCCER 16.99
CO040 JAMES POND 3 ..... 22.99
CO030 JET STRIKE 16.99
CO050 LEGACY OF SORASIL 19.99
CO042 LITIL DEVIL 19.99
CO544 LOST VIKINGS 19.99
CO030 PGA EUROPEAN TOUR 17.99
CO050 PINBALL FANTASIES 19.99
CO031 RISE OF THE ROBOTS 22.99
CO001 ROADKILL 19.99
CO035 SENSIBLE SOCCER 16.99
CO006 SIMON THE SORCERER 22.99
CO700 SKELETON KREW 22.99
CO008 SUBWAR 2050 ..... 19.99
CO255 SUPER STARDUST 19.99
CO039 THEME PARK 25.99
CO580 TOWER ASSAULT 19.99
CO007 U.F.O. 19.99
CO046 ULTIMATE BODY BLOWS 16.99
CO002 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 friendly & helpful.
- We are available 9am to 9pm every day.
- We never mislead you about our stocks.
- We never quibble about returns.

Optional membership scheme:
- Bi-monthly catalogue & disk.
- Money 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. 7/8/95 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, Langton, Stoke-on-Trent, Staffordshire, ST3 2PD.

Net profit, net loss

Phil South mulls over the expense of Net usage

I know I've argued about this before, but 'Net usage is expensive. A lot of stupid companies who don't pay for their phone bills are rushing onto the 'Net with Web sites and inviting us to send our cash down the phone to pay for goods and services. No way! Think about it. These admittedly brilliant sites I've mentioned here can cost you a couple of quid to visit – even if you visit them at off-peak times. It's a pricey business, even with all the good deals that phone companies are flinging your way these days to get your money.

Obviously, faster modems would be a bonus, and for frequent 'Net access, or if you are a 'Net hack like me, then a 28,800 baud or even ISDN is a definite good idea. Okay, so you shell out more initially, but the savings in 'Net time are enormous. You have to be very careful when you get fast 'Net access though, because it might mean you spend a bit longer on-line than you should, and you just download bigger files. (It's a bit like real life where your expenditure expands to fill and even exceed the available budget.)

So to help you enjoy your 'Net life more and avoid those scary phone bills, here is my five-point plan for more efficient Netting:

1. Get the fastest modem you can buy, beg or steal. The more rapid transfer rate between you and the host machine will mean faster access to the Internet, especially useful for graphics-intensive Web sites.

2. On-line so much people can't get you on the phone? Get another phone line for your 'Net access or better yet, get a beeper like the one I have – the Motorola Lifestyle Plus. It costs £80 and after that there is no charge. People pay just 20p a time when they dial up a premium rate line and tap in their phone number. It's cool gadget too, and makes people on trains think you are a doctor.

3. Use a stopwatch. When you log on start the timer and keep looking at it. Try to limit your browsing to half an hour a day, especially if you're logging on before 6pm.

4. Save frequently. Save the text of pages if there's a lot to read, either as text or HTML. Read off-line as often as possible. It's easy to forget you are connected to the phone when you are reading something interesting.

5. Do what you've got to do and get out of there. It's easy to roam around the Web when you are bored, and it's just as easy to not really have any aim in mind. The Web is a tool, and okay, it's quite good fun too, but it should be used carefully. So don't just wander around the Net burning up cash. Look for something, find it, note any interesting URLs on the way, but get out quick.

Net watch

WorldCam
http://www.ovd.com

One of the most interesting things about the Net is its NetCams, that is to say video cameras which relay almost live info from their location to you via the Web. The most impressive collection of these cams is WorldCam. WorldCam has also compiled a list of the best Cams from around the world, including The Falcon Cam at Calgary University, The Incredible FishCam (a fish tank), FogCam and the amazing wearable WebCam – a camera attached to someone who has a wearable 'Net-based computer so you see what they are doing.

Batman Forever
http://www.batmanforever.com/

The web site for the new Batman film, out now, and very fab it is too. The site has pictures, sounds (live via Real Audio if you have a PC-based 'Net program running on your Emplant) and movies for you to watch. It also has some very nice HTML tricks, like animated logos.

MGM/UA Lion's Den
http://www.mgmua.com/MGM/index.html

The MGM/United Artists home page, with details of all their recent filmage. For example Goldeneye, the new Bond Film. At the time of writing there weren't any pictures, but there was a sneak preview. Presumably this is because the film is in production and it needs more doing to it before you can really get a look at any sets or anything. Also, there are details about Species, which is a new spooky film with bags of special effects about a new type of human, which of course goes haywire and kills everyone, in the grand old tradition. There's also lots of stuff on the new Tank Girl movie, starring Lori Petty.

Sony Pictures Entertainment Home Page
http://www.spe.sony.com/Pictures/index.html

Access to Sony's Entertainment network, including their movies through Sony Pictures. All the upcoming features are here like the excellent 'The Net' (no relation to the awful BBC series) starring Sandra Bullock, the most excellent 'Johnny Mnemonic' starring Keanu 'Evil Ted' Reeves, and other bonuses like 'First Knight' with Sean Connery and Richard Gere. Oh, not forgetting Julia Ormond... ooh, how could I forget.

Buena Vista MoviePlex
http://www.disney.com/

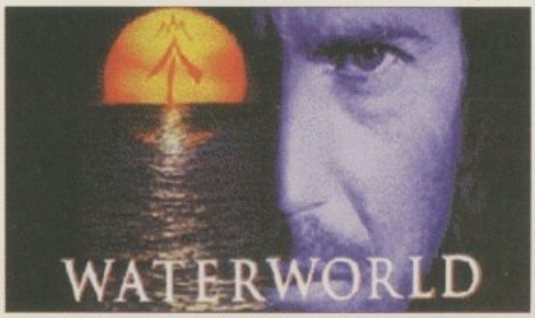
The very graphics-heavy Buena Vista Pictures site has now moved to the Disney site. It used to be out on its own but it's been absorbed into the controlling company's Web activity. All you need to know about the new BV releases, including the new Judge Dredd picture with Sylvester Stallone.

Paramount Pictures
http://www.paramount.com/

At the Paramount site you can get a preview of scenes from Michael Crichton's new film, Congo, Mel Gibson as Braveheart, and sneaky previews of the new Star Trek: Voyager TV series (coming soon to a video store near you.)

MCA/Universal Cyberwalk
http://www.mca.com/

The MCA/Universal site was one of the first movie companies on the Web, and it shows by its slick presentation. The site has previews of Tom Hanks in Apollo 13, the $200 million Kevin Costner film Waterworld, and also Spielberg's Casper, the friendly ghost.



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

A large range of printer ribbons & reloads always in stock

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 acrossyou. ★ Suitable for Citizen, Epson, Hewlett Packard, NEC, Panasonic, Seikosha, Star and just about any dot matrix or inkjet/bubblejet/ lazerjet printer.

~~ONLY £39.95~~ CARE SPECIAL £29.95

UPGRADE FLEXIDUMP TO FLEXIDUMP PLUS 3, ONLY £14.95 INC. RETURN MASTER DISK

SPECIAL RE-INK

For Panasonic Printers, Star LC200 9 Pin, Epson LQ100, Oki 182/390. Black bottle will re-ink 100+ ribbons £9.95

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.

Citizen Swift/ABC/120D 5 black reloads £9.99
Star LC10/20/100 5 black reloads £4.99
Star LC24 Range 5 black reloads £9.99
Seikosha 1900/2400/SL95/96 5 black reloads £9.99
Epson FX80/LQ800 Range 5 black reloads £11.95

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

"If it sounds like I raved, then I've communicated successfully exactly how groovy this product is ".

Ami-FileSafe

"It makes as much difference as adding some fast SCSI Zorro III controller from hell".

all quotes from Internet Review: (comp.sys.amiga.reviews)

available NOW

Ami-FileSafe
The NEW de facto standard Filing System for your Amiga

pro version

RRP £69.75 inc VAT

for larger & multi-user systems

Secure filing system No more corrupt disks when applications crash whilst writing to disk!!
Super Fast - much faster than FFS.
Instant Directory Listings
Parallel access and negligible performance loss!
Efficient use of disk space.
Large directories do not decrease operating performance.
Multi-User Filing System Support

"There's no doubt about it. This is one *SAFE* mother this Ami-FileSafe system".

Benchmarks

A3000 030 Oktagon SCSI 2

Test	FFS	AFS	Units
DirScan	409	1780	Files/Sec
CreateFile	227	1073	k/sec
ReadFile	244	1363	k/sec
Seek and write 4bytes (start & end)			
x100	53.6 Sec	4.4Sec	

AFS: the Amiga Power Tool!

"Brilliant if, like me, you use your Amiga multi-tasking capability to the max".

Fourth Level Developments Certified Amiga Developers 0117 985 4455 (6 Lines)

Ami-FileSafe Latest User Version

now with auto FFS2AFS conversion!!

£29.75 p&p £3

User Version Limits
Single Hard Drive
Up to 650Meg
No MuFS
Private user licence
Otherwise as Pro-Version

Ami-FileSafe Branded Products Dice V3.01

"Tried with Mail Manager again. My *GOD* it was amazing! Tossing sped up from around 500 messages/min up to 1200 or so!"

Our German Version distributed by: Stefan Ossowskis Schatztruhe, Essen +49 201 788778

Who goes there? Part 2

Phil South looks at part two of the screen info program

Welcome back. Let's hope you have the rest of the program typed in by now, as we are going to give you the rest of the Screen Info program by Graham Moody. All set? Right, let's get going.

As we said last month this is a screen info program which loads a screen and gives you info about it. The author describes its usage thus:

"Here is a routine that will give you information on the current screen, from the screen number to the amount of memory the screen is using. There are two modes of operation.

```
_SCREEN_INFO[1]
```

is the silent mode, where by the information is returned from the procedure in a string.

```
_SCREENNUMBER=Val(Left$(I$,1))
X=Val(Mid$(I$,3,4))
Y=Val(Mid$(I$,8,4))
WIDTH=Val(Mid$(I$,13,4))
HEIGHT=Val(Mid$(I$,18,4))
NUMBEROFCOLOURS=Val(Mid$(I$,23,4))
NUMBEROFBITPLANES=Val(Mid$(I$,28,1))
AMOUNTOFSCREENMEMORY=Val(Mid$(I$,30,7))
```

this is how we get the information, that is returned from the procedure:

```
_SCREEN_INFO[0]
```

is non silent mode where by the information is displayed directly on screen."

Okay, here's the second part of the code. Don't try to run this on its own as it is not complete! Okay, here we go with part 2.

First we open a screen:

```
Screen Open ISN,640,120,16,Hires
Screen Display ISN,128,-100,,
```

We grab the palette of the current screen:

```
Get Palette _SCREEN_NUMBER
```

Then we fade in:

```
Fade1,,$FFF,$FF0,$F00,$CCB,$AAC,$77A,$F00,$F,
$8E8,,,$C,$8F,$3,$AAC
        Curs Off : Flash Off : Paper 5 :
Hide : Wait Vbl
        X=0 : Y=0 : WIDTH=640 : HEIGHT=120
: Gosub LIGHT3D
        X=40 : Y=13 : WIDTH=560 : HEIGHT=13
: Gosub LIGHT3D
```

We then GOSUB to the routine that prints the information:

```
Gosub INFOPRINT
Wait Vbl
Ink 3 : Paint X+4,Y+4,0 : Rem paint an area
of screen, in colour 3
Paper 3 : Pen 5 : Locate ,2 : Centre "Screen
information"
For N=0 To 150 Step 16
        Screen Display ISN,128,N,,
        Wait Vbl
        Next N
        For N=150 To 100 Step -4
          Screen Display ISN,128,N,,
          Wait Vbl
        Next N
For N=100 To 150 Step 2
        Screen Display ISN,128,N,,
        Wait Vbl
Next N
Timer=0
```

Having done all that we set timer to zero and then we go into a little repeat/until loop:

```
Repeat
        T=Timer/50
        If T=>60
          If UP=0
            N=N+1
              If N=>150 : UP=1 : End If
```

If this is the case we will move screen down. But...

```
        Else
          N=N-1
          If N=<60 : UP=0 : End If
```

if this is the case we will move screen up.

```
        End If
        Screen Display ISN,128,N,,
```

Here's where the decisions we made earlier about moving the screen up/down come into effect:

```
                End If
                Wait Vbl
```

Wait for the next vertical blank and then set up a mouse key sensor, so if a mouse key is pressed we will continue, like so:

```
        Until Mouse Key<>0
```

Next we have a FOR/NEXT loop, which shows us the info screen:

```
        For N=N To -100 Step -16
        Screen Display ISN,128,N,,
        Wait Vbl
        Next N
```

Then we close the information screen and exit the procedure:

```
        Screen Close ISN :
        Pop Proc
    End If
    Goto REPORT
```

Right, now we enter the Light3D area of the program. Try this proc on its own to see what happens. X and Y hold the x,y position of the box, WIDTH and HEIGHT hold the width and height of the box. Simple and effective huh?

```
LIGHT3D:
Ink 5 : Bar X,Y To X+WIDTH,Y+HEIGHT
```

This clears the middle with the background colour.

```
Ink 6
Draw X+WIDTH,Y To X+WIDTH,Y+HEIGHT
Draw To X,Y+HEIGHT
Ink 4
Draw To X,Y
Draw To X+WIDTH,Y
Ink 6
Draw X+WIDTH-1,Y+1 To X+WIDTH-1,Y+HEIGHT-1
Draw To X+1,Y+HEIGHT-1
Ink 4
Draw To X+1,Y+1
Draw To X+WIDTH-1,Y+1
Ink 6
Draw X+WIDTH-2,Y+2 To X+WIDTH-2,Y+HEIGHT-2
Draw To X+2,Y+HEIGHT-2
Ink 4
Draw To X+2,Y+2
Draw To X+WIDTH-2,Y+2
Return
```

And finally we have the INFORPRINT label we referred to earlier:

```
INFOPRINT:
Pen 12
Locate ,4
Centre " The screen number="+Str$(_SCREEN_NUM-
BER)
Locate ,5
Centre " The screen width="+Str$(_SCREEN_WIDTH)
Locate ,6
Centre " The screen
height="+Str$(_SCREEN_HEIGHT)
Locate ,7
Centre "The maximum number of
colours="+Str$(_MAXIUM_NUMBER_OF_COLOURS)
Locate ,8
Centre "The number of planes
avialable="+Str$(NOPA)
Locate ,9
Centre "The lefthand side of the screen is dis-
played at"+Str$(XDISPLAY)
Locate ,10
Centre "The top of the screen is displayed
at"+Str$(YDISPLAY)
Locate ,11
Centre "The total memory requirement for this
screen="+Str$(TSM)+" bytes"+" or
"+Str$(TSM/1024)+"KILOBYTES "
Locate ,12
Centre "(When the double buffer system is in
use time by 2)"
Locate ,13
Pen 0 : Centre "Press mouse key to QUIT"
Return
REPORT:
End Proc[I$]
```

And there you have it. All the information you could wish for about a screen. Handy to be able to do this kind of thing on the fly. If, for example, you had an image processing program, and you wanted to sense the parameters of an incoming screen file so you could casually pop them up on the screen after a menu, for example, then this is the routine for you. It is a veritable Swiss Army Knife of a routine, so keep it handy.

Back to normal, whatever that is, next month, and keep those routines and letters coming.

Write stuff

If you have a routine you'd like to share, then please write to Phil South, Amos Column, Amiga Computing, Media House, Adlington Park, Macclesfield SK10 4NP.

Frank Nord gets his mitts on the new plug in modules for PageStream 3

Plug in and print

In with the latest update (3.0h) I received this morning, I got the four new add-ons for PageStream. They are: Gary's Effects, a Jpeg filter, a Wordworth filter, and a font engine for TrueType fonts. These additional filters can be bought now from SoftLogik themselves for between $20 and $25, so get your credit card ready.

Gary's Effects come on a single disk for installation into BME 2.0. They are a series of Effects modules that get added to BME's Effects menu and give you some of the more common operations required for desktop publishing. These include, but are not limited to, a user-editable convolution matrix, gamma correction, a histogram graph display (which cannot be edited), control over hue and saturation and other such effects.

It's a bit disappointing that there are none of the really useful DTP-oriented operators such as unsharp masking, or that most of the operators don't seem to work in a predictable fashion when applied to pictures in CMYK format. I can only hope that Gary's Effects evolves into something more like Kai's Power Tools over a period of time. Still, thanks to the new Jpeg filter, at least you can save pictures out from BME as Jpegs.

QUALITY SETTING

There isn't very much to say about the Jpeg filter for PageStream. It does what it is supposed to and offers you a quality setting slider, but really talking about it is going to sound like one of those Ronseal product ads on the telly: So if you want a filter and you want it to be Jpeg, then get the Jpeg filter. It does exactly what it says in the docs.

Moving on to the third item in our add-on collection – the TrueType font engine. Again, there isn't very much to say about this plug in. It allows you to use TrueType fonts in PageStream transparently, without needing to first convert them into Postscript format. This opens the vast vista of CD-ROMs made for people with PCs and Windows (which uses TrueTypes). SoftLogik say in the documentation accompanying the add-on that the speed and quality of TrueTypes in PageStream is roughly equivalent to Postscript fonts. The only thing that would have been nice to see would have been PageStream taking advantage of some of those WinPrinters – printers optimised for Windows' use by having TrueTypes built-in. I'm not sure if this is actually feasible given the printing system in PageStream, so I don't suppose it's all that important.

The last add-on seems to be a little underdeveloped. Although the WordWorth filter will import your WordWorth documents, it will only do so under fairly strict conditions. Because PageStream has no Text Effects or Tables feature, it won't be able to load in any of those nice layouts you have created in WordWorth using these features. PageStream is also unable to load CGM graphics files like those used by WordWorth, so that option is right out too. PageStream's hyphenation method differs from WordWorth's so you might have problems there too, although not necessarily.

Finally, there are two further problems that would appear to be in the process of being sorted out. The first is a problem with extreme type sizes and the 'Loose' leading method and the other is a problem with picture aspect ratios. All in all, it doesn't sound as though the WordWorth filter is going to be much use for anything but the simplest layouts and as such, perhaps it should have been included with PageStream for nothing, or they should have at least waited until you could do a bit more with it.

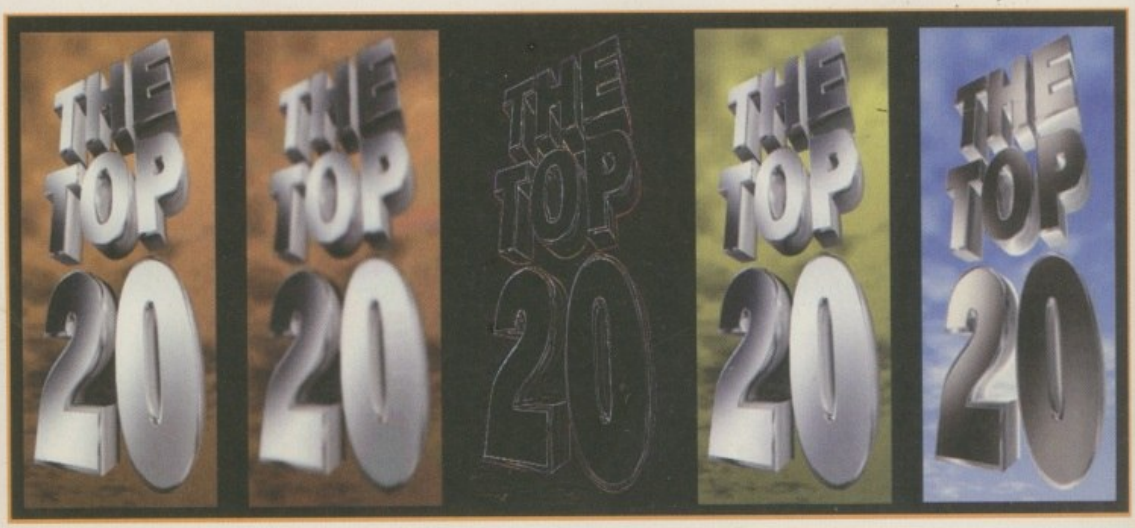
PageStream progress

After having spent some time with PageStream 3.0h, I can definitely say that SoftLogik are pushing forward at a rapid rate towards a finished product. Typing speed in the new version is vastly improved, particularly in long articles, although SoftLogik say it is still not as fast as they would like for v3.1. Also, you can now quit from the editors without them locking up PageStream (at last! I can't remember the number of times I hit Amiga S, Amiga Q out of sheer habit). In addition, external graphics have finally been implemented and you can now revert to saved.

Owners of non-Postscript printers should be pleased that printing has been sped up and that memory is no longer as important when it comes to printing. Hyphenation, both soft and automatic, has now been incorporated and, at last, your cursor accurately represents where in a text article you are. BME also gains two new effects – Emboss and Sharpen.

However, some of the more annoying niggles like PageStream's inability to copy, duplicate or transform a text box have still not been resolved, neither should you expect PageStream to be able to do colour separations for EPS files or printing (one aspect which must surely limit PageStream's appeal for serious use. Perhaps this ought to be attended to before anything else).

Finally, in the readme file they mention release dates for both a Mac and Windows version of PageStream and promise full cross-platform compatibility, so lets hope that a) this doesn't mean that Amiga development slows down and b) Amiga users will finally have a hope of going to a printer with a PageStream file and not get laughed at.



Some of the new operators that Gary's Effects provides BME with. They are: the original picture, blurred, Laplacian Edge (convolution), hue (+23°), solarized, and threshold

SATELLITE SMARTCARD EMULATOR!

Connects all VideoCrypt & EuroCrypt decoders to your computer. Emulation software to decode most encrypted channels **(including Adult, Film, Music & Sport)** is freely available – full details are included. This product should not be used to view channels for which you do not have a subscription!!

Now only £39.95 for Amiga, IBM PC & Macintosh

Send two 25p stamps if you need further details. Please add £3.95 P&P and allow up to 30 days for delivery. All trademarks acknowledged. E&OE. Foreign orders welcome. Trade Enq. Fax: +44 (0)1884 255273.

NUCLEUS DIRECT (AC) • 4 ANGEL HILL • TIVERTON • DEVON • EX16 6PE

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	11.30	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	£6
25 Disks	£10	£11
50 Disks	£16	£18
100 Disks	£29	£33
250 Disks	£65	£76
500 Disks	£125	£148

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	59.03 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 371, Owl House,
5 The Brambles, Lichfield, Staffs WS14 9SE
Official Government & Educational orders welcome
E & OE

3.5" IDE Hard Drives for A600*s & A1200s at excellent prices

fully installed including your workbench software, prices include carriage back to you.

Examples:

270Mb £125.99 • 360Mb £133.99
420Mb £144.99 • 540Mb £161.99
850Mb £195.99 • 1275Mb £246.99

Please call first for latest offers

** Some A600s may require new ROM to fit hard drives*

GC Electronics
COMPUTER WORKSHOP
12 Newmarket Street
Consett, Co. Durham
Tel & Fax: (01207) 502249

FAST AMIGA REPAIRS

FAULTY TROUBLESOME COMPUTER??

CALL FOR COLLECTION OR PERSONALLY DELIVER TO THE EXPERTS FOR FAST RELIABLE REPAIR OF YOUR AMIGA FOR ONLY

£24.99 + PARTS
* NO OBLIGATION FREE QUOTE

WE REPAIR TO COMPONENT LEVEL
A500, A600, 1200, 1500, 2000, 3000, 4000 & CD32

FREE GIFT WITH EVERY REPAIR
PLEASE SPECIFY
MOUSE MAT ☐
MOUSE HOLDER ☐
DISK CLEANING KIT ☐
ADD £5 REPLACE MOUSE ☐
ADD £5 JOYSTICK SEGA STYLE ☐

BARGAIN HARD DRIVES
FITTED 85/500 Mb .....CALL
EXCHANGE SERVICE
MODULATORS £19.50
PSU £19.50
DISK DRIVES £25.50
KEYBOARDS £25.50

95% SUCCESS RATE ON ALL COMPUTERS

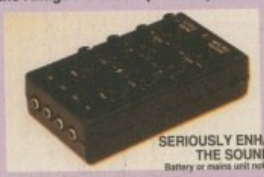
★ DOOR TO DOOR COLLECTION OF YOUR COMPUTER ANYWHERE IN THE UK
144 TANNER STREET, TOWER BRIDGE, LONDON SE1 2HG
Call FAST on 0171 252 3553
E/Mail: Peter@fastcomp.demon.co.uk

AMIGA MUSICIANS!

Specifically designed and manufactured for use with the Amiga, we are pleased to introduce the "Little Gem" Micro Audio Mixer and EQ Unit

Allows you greater control over the sound when playing your Amiga through an outside sound system, or when recording the Amiga Audio Output to tape or DAT.

2 Channel In/2 Channel Out
Hi and Lo EQ (Equalisation) to +/- 12db - to increase/decrease the bass and treble content of the sound
Pan (controls for stereo positioning of each channel - no longer have to suffer from hard right and left stereo panning
Independent volume/gain control for each channel
Battery or mains operation - takes no power from the Amiga
Process sounds prior to sampling - then process again on playback
Acts as a sound processor to seriously enhance the sound
Dimensions only 175mm x 75mm x 50mm
COMPATIBLE WITH ALL MODELS OF AMIGA



SERIOUSLY ENHANCES THE SOUND
Battery or mains unit not supplied

The current retail price of the "Little Gem" is **£69.95** which includes packaging and first class postage. Overseas delivery: Europe add £4. Rest of World add £8. Cheques and/or postal orders only.

Available only from the developer and manufacturer:

GILLETT MULTIMEDIA
10 St Audrey's Way . Ely . Cambridge . CB6 1DF
Tel: (01353) 669203 . Fax: (01353) 663371

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. 14 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	EXTERNAL DRIVE NEW	£38.99
A500 Keyboard (UK)	£42.10	A520 Xchange Modulator	£18.00
A2000 PSU	£65.00	A501 1/2Meg Ram+Clk	£13.50

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)	£8.60
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
Kickstart 3.1 (A500)	£58.00
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 NEW LOW PRICES

Quality 2.5 inch Int HD Suited for A600 & A1200

40 Mbyte	£59.95
80 Mbyte	£72.90
120 Mbyte	£109.50
170 Mbyte	£138.20
340 Mbyte	£195.00

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 Tel (0116) 247 0059 Fax (0116) 285 0649

DART Computer Services (AC), 105 London Road, Leicester LE2 0PF

VISA

The Guild of Master Craftsmen

DART Computer Services
A division of D.A. Computers Ltd

AMIGA COMPUTING ADVERTISERS' INDEX

17 Bit Software 98	G.T.I. 62	Premier Mail Order 106
1st Computer Centre 15	Gasteiner 77	Premier Vision 70
Active Software 44, 45	Gillett Multimedia 122	Saddletramps 104
Amiganuts 12, 13	Grey Electronics 55	Seasoft Computing 74
Analogic 108	Guiding Light Comp 100	Siren Software 11
Arnold Computer Supp 104	H I Q 110	Software 2000 ....40, 41
Blittersoft 112	Hagars Electronic 104	Special Reserve 37
Brian Fowler Computers 49	Harwoods 17, 67	Tiffy Tech Pd 114
Bruce Smith Books 104	Hi Soft ....OBC	Underground Pd 116
Capri CD Distribution 104	Homesoft Pd 104	V12-Pd 28
Care Electronics 118	Kew = II 104	Visage Computers 56
Dart Computer 122	Megatronix Software 100	Whiteknight Technology 69
E.M. Computergraphics 114	Meridian 27	Wizard 32
Epic Marketing 80, 87, 91	Nucleus Direct 121	Wizard Games 100
Fast Computer Services 121	Owl Associates 121	Zone 1 116
Fourth Level Development 118	PD Soft 78, 79	
G.C. Electronics 121	Power Computing ....IBC, 2, 3	

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

◆ A1200 85Mb hard drive, monitor, printer, £1000+ of software. Tel 01257 426125.
◆ Amiga contacts wanted. K Barker, 75 Crystal Palace Park Road, London SE26 6UN.
◆ Wanted IV24 by GVP. Call Ernest 0181-767 2763.
◆ Amiga PD disks. Over 10,000 from 50p. Tel: Sean 01959 561651.
◆ Imagine user group. Call Spencer on 01375 670036 for info.
◆ A1200 contacts wanted. Contact C Simms, 42 Anfield Road, Wrekenton, Gateshead NE9 7AE.
◆ Exchange Suprafax modem 14400 v32 for Prograb.VidiAmiga24RT. Tel 0191-266 1280.
◆ Amiga 1200. Boxed, £250. Boxed games, 200 available. Tel: 0956 558024.
◆ Photogenics 1.2, new and unused, £40. Tel: 01273 493659.
◆ A1200 170Mb 2nd FFD, Philips colour monitor, 6Mb RAM, mice, joysticks, games, mags, £500. Also, 2 C64s, tape drives, disk drives, plus lots of games, mags, £250. Tel: Conan 0181-208 4319.
◆ A1200 with 260Mb Smartstor hard drive, 1230xA 40 MHz accelerator, 4Mb SIMM, Wordworth 3, Brilliance, DPaint 4 & Vistalite, £500. Tel: 01923 241170.
◆ PD contacts wanted, 100% reply. Tel: 01228 511827.
◆ A1200 contacts wanted. Internet williams@madmark.demon.co.uk.
◆ A1200, 60 games, mint condition, £299.Tel: 0181-578 0843.
◆ CD32, SX1, Amitek Drive, games, £350 ono. Tel: 01524 831866.
◆ Lottery Predictor, £4.99. Details from R Palmer, 39 Welford Road, Shirley B90 3HX.
◆ A1200 contacts wanted. Contact Ray Ingleden, 1 Talbot Street, Middlesborough, TS1 3EP.
◆ Understanding Imagine 2 book, plus disks, £14. Tel: 01273 493659.
◆ Five 2Mb SIMMS, 72 pin, 70ns, £50 each. Tel: 01480 383625.
◆ Penpals wanted, Write to Jay, Mantle Lane, Coalville, Leicester LE67 3DW.
◆ 3D construction kit, Diskmag, £1.50 monthly. Datafiles, tutorials. Tel: 01484 460888.
◆ PD 36p with disk, 15p if you supply many titles. Mark Strotton, 22 Barnway, Stratton, Cirencester GL7 2NA.
◆ 4000 30 33 FPU, 10Mb RAM, 124 hard drive, HD floppys, SCSI CD, £1000. Tel: 0151-356 0264.

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!

BLUE CHIP AWARD

AMIGA GOLD

POWER CD-ROM

power cd-rom

The 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 yo six additional devices to be connected. What's more the Power CD-ROM features a 'Hot-plug' which allows you to connect and disconnect the CD-ROM and any other additional devices even when the Amiga is switched on.

The CD-ROM drive comes with a SCSI interface, PSU, manual, audio lead, mains lead and software which includes Audio CD, CD32 Emulator, MPEG Film Decoder and Photo CD.

AMIGA 600/1200

x2 SPEED CD-ROM INC.SQUIRREL . . **£199**
X4 SPEED CD-ROM INC.SQUIRREL . **£299**
AIWA X2 SPEED INC.SQUIRREL **£209**

AMIGA 4000

DOUBLE SPEED CD-ROM **£159**
QUAD SPEED CD-ROM **£259**
AMIGA 4000 SCSI-INTERFACE . . **£129**

SCSI INTERFACE REQUIRED FOR A4000

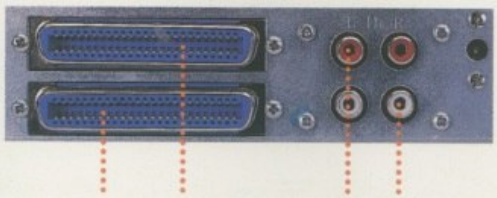
quad-speed

AIWA CD-ROM INC. SQUIRREL £209

£299
quad-speed

£199*
dual-speed

double-speed



*DUAL SPEED CD-ROM CASING DIFFERS FROM ONE SHOWN

£54
80 watt

CD-ROM SOFTWARE

LIGHTWAVE 3D ENHANCER . . **£55.95**
CDBOOT 1.0 . . . . . **£29**
WORLD INFO'95 . . . . . **£39.95**
DA CAPO VOL 1 MUSIC MODULE . **£25**
FRESHFONTS II **£17**
GAMERS DELIGHT **£25**
GOLDFISH 2 . . . . . **£25**
LIGHT ROM **£39**
MAGIC ILLUSIONS **£10**
MEETING PEARLS VOL 1 . . . . . **£10**
MEETING PEARLS VOL 2 . . . . . **£10**
THE LIGHT WORKS **£34**
THE BEAUTY OF CHAOS **£12**
AMINET 5 . . . . . **£12**
AMINET SET 1 . . . . . **£25**
CD-WRITE **£39**
FRESH FISH 8 . . . . . **£25**
GATEWAY VOL 1 . . . . . **£9.95**

POWER VIPER

AMIGA GOLD

starting from
£119.95

viper 28mhz

The Viper 28 can have up to 128MB RAM installed, full Kickstart remapping, optional SCSI-II adaptor, on-board battery backed clock, 68882 co-processor, instruction and data burst modes.

VIPER 28 MKII BARE **£119.95**
VIPER 28 MKII 2MB **£199.95**
VIPER 28 MKII 4MB **£259.95**
VIPER 28 MKII 8MB **£399.95**
VIPER 28 MKII 16MB **£569.95**

viper 50mhz

The Viper 50 can have up to 128MB RAM installed, and the same features as the Viper 28.

VIPER 50 BARE **£199.95**
VIPER 50 2MB **£279.95**
VIPER 50 4MB **£349.95**
VIPER 50 8MB **£479.95**
VIPER 50 16MB **£649.95**

viper co-processor

FPU's complete with crystal. Please state for Blizzard compatibility.

20MHZ FPU PLCC **£20.95**
33MHZ FPU PLCC **£39.95**
40MHZ FPU PLCC **£60.95**
50MHZ FPU PGA **£89.95**
SCSI-II INTERFACE (VIPER II ONLY) **£69.95**
4MB SIMM **£139**
8MB SIMM **£279**

pc1208

A1200 8MB RAM card which uses 1 x 32 SIMMs and is PCMCIA friendly.

PC1208 BARE **£59.95**
PC1208 1MB **£89.95**
PC1208 2MB **£129.95**
PC1208 4MB **£189.95**
PC1208 8MB **£329.95**

warp engines

WARP ENGINES . . . . . **£POA**

TELEPHONE **01234 273000**
FACSIMILE **01234 352207**
POWER COMPUTING LTD
44A/B STANLEY STREET
BEDFORD MK41 7RW

.power

ALL PRICES INCL. OE 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.

Squirrels do it with Zip!

zip drive 100 scsi

£179

Price inc 1 cartridge, extra 100Mb cartridges £15.95 or less!

A brand-new SCSI peripheral, the Zip™ may well revolutionise the storage industry.

This newest, most portable exchangeable hard disk drive weighs in at just 1lb, has fast transfer and access times (up to 1Mb/s transfer, 28ms seek), easily fits in your hand, your bag or your briefcase, stores up to 100Mb on floppy-sized disks, is perfect for all types of application and is priced at a level that will make you want to unzip your wallet immediately!

These drives and associated cartridges (25Mb & 100Mb) will be available in late August '95 directly from HiSoft with especially-written driver and support software included. Trust HiSoft to bring you the latest innovations at the best possible prices!

Amiga Zip Tools
exclusively from HiSoft

Zip drives from HiSoft come with everything you need to get going on a SCSI-aware Amiga: the Zip 100 drive, a 100Mb cartridge, all necessary leads and a complete set of software, programmed by HiSoft, including:

- *Easy access drivers*
- *Temporary unprotect*
- *Password protect*
- *Cartridge initialisation*
- *Write protection*
- *Cartridge eject*

Order your Zip drive now to be first in the long queue!

The Best-Value Hard Drives and CD-ROMs

If you want a hard drive (either SCSI or IDE) then HiSoft has the one to suit your needs; whether you are looking for a small, internal drive for your A1200/A600 or an external 1Gb beast-of-a-drive for any SCSI-aware Amiga, we can supply.

Based on only the highest quality mechanisms from top suppliers, with full manufacturer's warranty, our hard drives are fully tested for all Amiga computers and come with our own additional warranty and technical support.

IDE drives are perfect for auto-booting your A600/A1200 and come with connection lead, fixing bolts & complete fitting instructions. Fitting is very straightforward but may invalidate your Amiga's warranty - check with us.

Quad-speed CD-ROM

only £309 inc Squirrel SCSI

The fastest drive yet at a great price! Fast 600Kb/sec transfer plus 190ms access, using the renowned Toshiba 5301 drive. Also available w/o SCSI interface and/or case - just call.

SCSI Hard Drives

365Mb internal	£179	730Mb internal	£239
365Mb external	£249	730Mb external	£309
540Mb internal	£209	1Gb internal	£399
540Mb external	£279	1Gb external	£469

2.5" IDE Drives

40Mb int.	£59.95	64Mb int.	£79.95

We offer internal or external SCSI hard drives, from 365Mb up to 2Gb. Internal devices are suitable for mounting in the A1500, A2000, A3000 and A4000 and come with necessary leads & screws whilst the external drives are supplied in our professional Squirrel 3.5" case (available separately) which includes integral power supply, all SCSI connections and connection leads of your choice (at extra cost).

Super-Value CD-ROM Pack

only £225

value if purchased separately £285

HiSoft has done it again with a brilliant multimedia pack of Squirrel SCSI interface, Aiwa ACD-300 CD-ROM and the Almathera 10-on-10 pack of CDs!

Just look at what you get:

- *The amazing, trend-setting Squirrel SCSI interface which allows up to 7 peripherals (hard drive, CD-ROM, Zip, scanner etc.) to be daisy-chained together.*
- *CD32 and CDTV emulation software so that you can all those games and other titles such as Video Creator.*
- *The great-looking Aiwa ACD-300 CD-ROM drive; a fast, double-speed CD-ROM with full SCSI specification plus complete audio controls on the front so that you can play music CDs directly. Plus an informative LCD panel.*
- *The Almathere 10-on-10 pack of CDs; this is 10 CDs including the Team Yankee game, 2000 clip-art images, the Illustrated Works of Shakespeare, a Comms, Internet & Networking CD, The World Vista Atlas, 1000s of fonts, a complete photo library and much, much more!*

All this, packaged together, at a truly superb price, with full 1 year warranty and technical support from HiSoft.

Zip is a trademark of Iomega Inc

Order Free with your Credit/Debit Card
0500 223660

Order Hotline
0500 223660

To order any of the products shown on this page (or any other HiSoft title, see the list opposite) - just call us, free of charge, on 0500 223660, armed with your credit or debit card; 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, made out to HiSoft. All prices include VAT. Export orders: call or fax to confirm pricing and postage costs.

© 1995 HiSoft. E&OE.

All prices include UK VAT

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

There's More!

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 very soon: DiskMagic (disk tools) **and Cinema4D.**