europress ENTERPRISE

Panasonic

AMIGA COMPUTING

Brave new world

Commodore back from the brink

SYSTEM

A totally new concept in Amiga games coverage

TBC Plus - GVP's latest and best video peripheral

Multiframe - ADPro's new easy to use front end

Wordworth 3.0 - The Amiga's best WP yet?

Devil's Advocate - Are Elspa doing enough to safeguard our games?

Legal loopholes - Home Office admits porn failure

05>

9 770959 963077

...ail order you ... will receive the product you've ordered and that the supplier will still be there in the future, should you need them.
A mail order purchase from INDI is a safe and secure decision and here's why. Indi is a wholly owned subsidiary of a public company now in its eleventh year of trading and specialising in the supply of computer products.
With a group turnover approaching £30 million per annum, INDI have the resources and the purchasing power to offer you the best deals, deliver them next day nationwide and always be around when you need us.

No Deposit Credit 5 Years to Pay

INDI are now able to offer competitive credit facilities on all orders over £100. Payment can be over 12, 24, 36, 48 or 60 Months and can include insurance to cover repayments in the event of sickness or unemployment All credit facilities are subject to status and applicants must be over the age of 18. If you would like a quote, simply call our sales line where acceptance can normally be notified within the hour.

Express Cheque Clearance

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

INDI TELESALES
TEL 0543 419999 FAX 0543 418079
9am - 7pm Monday to Friday
9.30am - 4.30pm Saturdays

Don't send any Money until you are 100% certain that any advertiser has the product that you want in stock and will deliver to you immediately.
Far too often we receives letters from customers who are finding it difficult to obtain a refund from an advertiser that has promised to supply but hasn't.
To give you the confidence to buy from INDI, we have joined the DMA, a very important Independent Authority that demands the highest possible standards from its members. DMA members agree to abide by the British Code of Advertising Practice and to subscribe to the Advertising Standards Board of Finance (ASBOF). Look out for the DMA Symbol. It is your guarantee signifying to the customer the truly professional edge of the Industry.

£25 off Spectacular Voyage CD32 Pack

No deposit credit terms available

£275
~~£299.99~~
Commodore List Price

ONCE AGAIN INDI BRING YOU THE BEST DEAL IN TOWN WITH A FULL £25 OFF THE FABULOUS SPECTACULAR CD32 VOYAGE PACK. WHY SO GENEROUS? IT'S SIMPLE. THE MORE CD32 WE SELL THE MORE SOFTWARE YOU WILL BUY AND AT INDI PRICES WHO COULD BLAME YOU.

DON'T FORGET !

Amiga CD32 Comes with 2 GREAT GAMES Microcosm and Chaos Engine and whilst stocks last FREE Oscar, Diggers, Wing Commander and Dangerous Streets

PLUS ... The addictive platform game Lemmings completely FREE

AND ... CD32 will play your favourite Music CD's

ALSO ... The FMV MODULE allowing Video Movie Playback and the SX1 module to turn it into a REAL Computer are only weeks away.

Amiga CD32 Software Titles

NEW Microcosm	~~£44.99~~	£32.99
Deepcore	~~£25.99~~	£16.99
Sensible Soccer	~~£24.99~~	£17.99
Labyrinth	~~£24.99~~	£19.99
Nigel Mansells World Championships	~~£29.99~~	£19.99
Morph	~~£29.99~~	£19.99
Overkill / Lunar	~~£29.99~~	£19.99
Pinball Fantasies	~~£32.99~~	£21.99
Pirates Gold	~~£29.99~~	£19.99
Zool	~~£29.99~~	£19.99
Seek and Destroy	~~£25.99~~	£16.49
Fire Force	~~£29.99~~	£19.99
Chambers of Shaolin	~~£25.99~~	£17.99
Liberation	~~£34.99~~	£22.99

DON'T DELAY - ORDER TODAY

Microvitec Pro Graphics Multi Sync Monitor with Stereo Speakers

Indi are proud to announce the arrival of the latest State of the Art Multi Sync Colour Monitor from the UK Manufacturer Microvitec.
This superb monitor offers a high quality 0.28 dot pitch and low radiation total MPR-II compliance. Complete with a pair of quality Stereo Speakers and all leads this is the monitor that we have all been waiting fo

£319.99 Speakers Included

Monitor Comparison

	Size	Pitch	Input	Approval	Price
Commodore 1942	14"	0.28	Analog RGB		£349.99
Microvitec Dual Sync plus external Stereo Speakers	14"	0.28	Analog RGB	MPR II	£319.99

Add a pair of our Quality Stereo Speakers to your existing Monitor. Pack includes Stereo Speakers and Protracker V2.0 Stereo Sound Sampler for all Amigas (exc. A500) Indi Price £17.99

Zappo External Floppy Drive

LOW LOW PRICE

You've seen all the reviews on this popular and affordable second Amiga drive. "Compatible with all Amigas Quality 9 out of 10." Exceptional value for money.
Amiga Computing

£48.99

Sharp Monitor / TV

The superb Sharp 14" Monitor / TV provides a real alternative to a Commodore Monitor with full function remote control 39 channel electronic auto search tuning, digital on screen display and 1.5 watt Mpo audio output. All you need to know is the low low price. The Sharp Monitor / TV is the product for you complete with scart socket and connectivity cable and including 12 months Warranty. £169.99

£169.99

2 Mb Smartcard
The original and still the only fully PCMCIA compatible memory card for the A600 and A1200. Comes with lifetime guarantee. Beware of cheap immitations. **INDI PRICE £99.99**

4 Mb Smartcard
Same as above but maximum 4Mb.
INDI PRICE £155.99

New Low Price IDE Internal Hard Drives

Indi can now offer top quality 2.5" Internal Hard Drives for the Amiga 600 and 1200 at unbeatable prices. All drives come complete with cable and installation software.

80Mb 2.5" Internal HD's £169.99
120Mb 2.5" Internal HD's £214.99
170Mb 2.5" Internal HD's £249.99

Zappo 601
Trapdoor upgrade for the Amiga 600, 1Mb with RTC.
INDI PRICE £49.99

Zappo 601 NC
As above only 512K, no clock
INDI PRICE £29.99

Amiga 600 with 30 Mb Hard Drive + 12 Months On Site Warranty

A genuinally unrepeatable deal combining an Amiga 600, 30 Mb Hard Drive and a fantastic range of games and utility software.
Trivial Pursuits -The Classic Quiz
EPIC - Science fiction Adventure
MYTH -Question the judgement of the Gods
ROME -Capture the purple Robe of the Imperial Roman Empire
AD 92 -Role playing adventure
AMIGA TEXT
A powerful word processing package simple to use but highly sophisticated you'll be amazed at your professional results
DELUXE PAINT III
Movie quality animations at the press of a key, 3D perspectives and a complete set of paint tools

£265.99

TEL: 0543 419 999 FAX: 418 079

Panasonic

UNREPEATABLE!

DON'T JUST TAKE OUR WORD FOR IT CHECK AROUND!!

Colour Printer Deal !!

OUR BUYERS HAVE DONE IT AGAIN , THE TOP QUALITY **PANASONIC COLOUR PRINTER** *AT AN UNREPEATABLE PRICE. THIS IS A ONE OFF DEAL AND CANNOT BE REPEATED SO* **YOU MUST TELEPHONE TO CONFIRM THAT WE STILL HAVE STOCKS**

Panasonic KX - P2123

- **Fast Printing Speeds** 192 CPS draft, 64 CPS LQ and 32 SLQ.
- **Colour Printing** 7 Colour palette (blue, red, green, yellow, violet, magenta, black)
- **Quiet printing** Super quiet 43.5-46 dBa sound level (most matrix printers are typically in excess of 60dBa)
- **7 Resident Fonts** Over 152,000 type styles using Super LQ,Courier Prestige, Bold PS Roman, Script and San Serif fonts.
- **24 Pin Diamond Printhead** High performance and high quality output.
- **1 year Warranty** for total peace of mind

With Free Wordworth or Batman Returns / Elite II

FREE
- -DUSTCOVER
- -COLOUR RIBBON
- -BLACK RIBBON
- -INDI SOFTWARE OPTION

WORDWORTH OR BATMAN RETURNS / ELITE II

~~£209.99~~ SALE **£189.99**

FIRST COME FIRST SERVED

Panasonic KX - P4400

NEW Ultra - Compact LED Page Printer Announcing the **Panasonic KX - P 4400** LED Page printer, the printer that fits virtually anywhere. Ultra small foot print (12.7cm X 38.1cm ex trays) and under 6.5 kg, this printer travels with you.

- 4 pages per minute of crisp, 300 dpi laser quality output.
- 100 sheet, multi purpose paper tray (A4, letter, legal and executive)
- 28 internal bitmapped fonts
- HP laserjet series IIP
- 1 Mb Ram expandible to 5 Mb
- 1600 copies per toner.
- 1 Year On Site Warranty

SAVE £112

~~£587~~ **£475.99**

Panasonic KX - P5400

Adobe Postscript LED Page printer now available. Specification as above plus * 2 Mb Ram standard * Adobe Postscript level 2inc 17 Adobe Fonts * Optional AppleTalk interface available

£759.99

Panasonic KX - P2023

- **Quiet printing** 46.5 dBa standard mode. 43.5 dBa super quiet mode
- **On screen set up disk** Including printer driver for Windows 3.1
- **Fast Printing Speeds** 192 CPS draft, 64 CPS LQ
- **4 Resident Fonts** Courier, Prestige, Bold PS and Script
- **2 Paper Paths** Top and Rear
- **1 year Warranty** for total peace of mind

Recently reviewed by Amiga Format *A fine 24-pin dot matrix printer at a reasonable price. Buy from **INDI AND SAVE OVER £72**

Buy this superb printer for just £144.99 AND whilst stocks last we'll send you a voucher for a free auto cut sheetfeeder **WORTH A FURTHER £89.**

~~£217.00~~ **£144.99**

FREE SHEETFEEDER

KX-P4410 Laser Printing KX-P4430

- 5 pages per minute
- 28 resident fonts
- Optional 2nd input bin (total printer capacity 2x200 sheets)
- Low running costs
- Parallel Interface
- Optional memory expansion to 4.5 Mb (0.5 Mb as standard)
- HP laserjet II emulation
- Including Superprint

New Low Prices!

£449.99

SAVE £289

Whilst Stocks Last

Panasonic 2 YEAR ON-SITE WARRANTY

- Satinprint (optimum resolution technology)
- 5 pages per minute
- HP laserjet III emulation, PCL 5
- 8 scalable fonts. 28 bitmap fonts
- Optional 2nd input bin (total printer capacity 2X 200 sheets)
- Optional memory expansion to 5Mb (1Mb as standard)

New Low Prices!

£649.99

WORDWORTH AGA COMPLETELY FREE WITH LASER PRINTERS

Printer Accessories

1) **Printer Dust Cover**
Specially tailored quality dust cover for the Panasonic KX-2123 printer
INDI PRICE £8.99

2) **Printer Stand**
-2 Piece printer stand
INDI PRICE £9.99

3) **Paper Pack**
-500 sheets of quality A4 paper
INDI PRICE £9.99

4) **Continuous Paper**
-2000 sheets 1 part listing paper
INDI PRICE £19.99

5) **Parallel Printer Cable**
-To be used when connecting Amiga to Panasonic printers
INDI PRICE £8.99

6) **Panasonic Colour Ribbon**
-Colour ribbon for KX-P2123
INDI PRICE £12.99

7) **Panasonic Black Ribbon**
-Black ribbon for KX-P2123
INDI PRICE £6.99

Panasonic KX-P1170

This quality 9 - pin mono dot matrix printer represents excellent value for money.

- **Push, pull tractors**
- **Fast Printing Speeds** 192 CPS draft, 38 CPS NLQ
- **4 Resident Fonts** Courier, prestige, bold PS and sans serif
- **3 Paper paths** Top, bottom and rear.
- **1 Year Warranty** For total peace of mind.
- **Paper parking**

~~£217~~ **£119.99** SAVE £97

Indi Direct Mail Customer Charter

INDI DIRECT MAIL is original and very exciting. Before you buy mail order you must first be confident that you will receive the product you've ordered and that the supplier will still be there in the future, should you need them.

A mail order purchase from **INDI** is a safe and secure decision and here's why. Indi is a wholly owned subsidiary of a public company now in its eleventh year of trading and specialising in the supply of computer products.

With a group turnover approaching £30 million per annum, **INDI** have the resources and the purchasing power to offer you the best deals, deliver them next day nationwide and always be around when you need us.

No Deposit Credit

Indi are now able to offer Competitive Credit Facilities on all orders over £100 subject to status. Payment can be over 12, 14, 36, 48 or 60 months and can include insurance to cover repayments on the event of sickness or unemployment. Why not ring for a quote. Sameday response.

DIRECT MARKETING ASSOCIATION

indi DIRECT MAIL

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

EXPORT NUMBERS
TEL: (44)543 419999
FAX: (44)543 418079

INDI DIRECT MAIL
1 RINGWAY INDUSTRIAL ESTATE,
EASTERN AVENUE,
LICHFIELD STAFFS. WS13 7SF

indi DIRECT MAIL

Please send 1).....
2).....
3).....
Price..... + Delivery
I enclose cheque/ PO for £.....or charge my Access / Visa
No.....Expiry...../...../.....Signature.....
Name.....
Address.....
.....
.....
Postcode.....Daytime Tel.....

AC0594

TEL: 0543 419 999 FAX: 418 079

Your Imagination Is The Only Frontier

Opal Vision State of the Art Mainboard

The amazing Opal vision 24 - bit graphics board and software suite has been updated and is now even better value for money.

The software suite now includes:

Opal Paint V2.0. Now includes full magic wand implementation and Alpha Channel that allows photo compositing with selectable levels on a pixel by pixel basis. The Chrominance effect allows absolute real time control of image contrast, brilliance and re-mapping of colours.

Opal Animate V2.0 - Offering real time play back of animations created by ray tracers, landscape generators, morphers and all other 24 - bit software.

Opal Hotkey V2.0 - Display Opal vision graphics anytime with key combinations.

"Quite simply, it's a spectacular product". **Amiga Computing.**

"Undoubtedly the finest, most professional paint program to arrive on the Amiga" - **Amiga Format.**

"Professional quality at this price can't be turned away" - **Amiga User International.**

"The verdict was unanimous - brilliant". - **Amiga Shopper.**

£349.99

Limited Offer

OpalVision Video Suite

This power packed video and audio mixing, switching and transcoding device connects directly to the Video Processor. This 19 - inch rack mountable unit is so advanced that it has it's own internal computer and every aspect is software controlled for precisely timed and accurate functionality. The video suite includes a wealth of inputs and outputs. There are 9 video and 10 audio inputs available, plus the 24 - bit frame store. Professional quality video inputs and outputs are available simultaneously in RGB or Y/R - B/B - Y. Composite and S - Video. Choose and 2 sources from these inputs, assign a transition or special effect and then trigger it manually or automatically. All of the transitions and effects provided by the OpalVision Video Processor are available for use by the Video Suite. the linear transparency key (Alpha channel and transparency effects) can be taken from the Video Processor and/or external video source and/or output to another production switcher. This allows transparency control between video sources on a pixel by pixel basis. The 10 Audio inputs (five stereo pairs) are fully software sequenced with smooth fades and full, 5 band frequency equalization.

£899.99

*Voucher Price available to registerd OpalVision owners. Return voucher with your order.

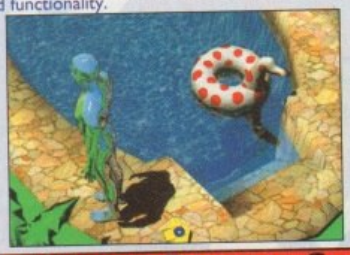
Voucher Price

£659.99

OpalVision Video Modules

Opal Vision Video Processor

It's a high quality real time 24 - bit frame grabber which doesn't require a time base converter, it's a professional quality genlocker with croma and Luma keying. the 256 level linear transparency key allows the definition of transparency between two live video sources on a pixel by pixel basis for smooth vignettes, antialiased text and super smooth effects. Plug this card into your OpalVision main board and add a wealth of additional features and functionality.



OpalVision Roaster Chip

Included with every Video Processor, the Opal vision Roaster chip provides an endless number of user definable Digital Video Effects. Take any two video sources (or an Amiga or Opal vision generated graphic). Flip it. Scale it. Rotate it on the X or Y axis. Move it along a path. Zoom it. Move out. You have complete control. Build your own custom library of useful wipes and effects and give your videos a unique style. OpalVision is the only video system in its price class with this powerful digital video engine. You've got to see it to believe it.

£899.99

Voucher Price

£659.99

* Voucher Price available to registerd OpalVision owners. Return voucher with your order.

Amiga 4000 / 030

New Low Price

170 mb

2mb Chip Ram

£929.99

No Deposit Credit Terms Available

Phone for price on Fast Ram

OpalVision Scan Rate Converter / TBC

£899.99

Add this card and achieve 31 Khz, non interlaced output of Amiga and OpalVision graphics and any incoming video source in either PAL or NTSC. Includes full time - base correction of incoming video, the on - board memory also serves as an additional frame store.

Voucher Price

£659.99

*Voucher Price available to registerd OpalVision owners. Return voucher with your order.

Rombo Audio Visual Products

Megamix. Low cost, hi spec digital effects cartridge plugs into the printer port of the Amiga. Allows stereo sampling from almost any musical source. **INDI PRICE £27.99**

Take Two. Animation package is a must for computer artists and enthusiasts of all ages. As used in Rolf Harris Cartoon Club. **INDI PRICE £34.99**

Vidi Amiga 12. The ultimate low cost colour digitiser for the Amiga. "the best value full colour digitiser on the market".- Amiga Format. **INDI PRICE £69.99**

Rombo Vidi Amiga 12 (RT) Based on the best selling Vidi Amiga 12. This all new version offers real time colour capture from any video source. Full AGA chipset support as standard for all A1200/A4000. **INDI PRICE £129.99**

Rombo Vidi Amiga 24 (RT)
For the more serious user, this 24 - bit version will again capture from any video source with true photo realistic images! A staggering 16.8 million colours can be utilised with incredible results. Full AGA chipset support. **INDI PRICE £219.99**

Roctec Rocgen Plus.
As above but with extra features such as tinting and signal inversion. Allows for real time editing of graphics. Compatible with all Amigas. **INDI PRICE £127.99**

Roctec Rockey.
The ultimate accessory for Amiga / Video fans. Separate RGB controls to croma key on any colour. **INDI PRICE £199.99**

Special Effects Packages

Morph Plus
You've seen Michael Jackson's video, you've seen the television adverts using the latest techniques in morphing. now you can create the same results but at a fraction of the cost. Morph Plus is the latest and the ultimate in this technology. Whether you are a professional artist or just want to experiment at home Morph Plus is a must. **INDI PRICE £119.99**

Deluxe Paint IV AGA
Combines powerful tools with an Intuitive interface so both professionals and beginners alike can get superb results quickly. New enhancements to the software include the ability to paint and animate in 4696 colours in the Amiga Ham (hold and modify) mode. New animation features also include metamorphosis allowing you to change one image into another. You determine the number of frames and DPaint does the rest. **INDI PRICE £64.99**

Art Department Professional V2.5
The ultimate in image processing providing many key benefits to AMiga users working with pictures. With ADPro you can read, write and convert between most common image file formats with unmatched flexibility. Full support for JPEG images makes it possible to maintain an image library in full 24 - bit colour without needing massive hard drive storage. Typically a 600Kb image can be compressed down to 40Kb!!! **INDI PRICE £132.99**

Real 3D V2
Is a full featured 3D animation modeling and rendering program. With Real 3DV2 you can produce high quality images and animations of three dimensional models with an astounding level of realism. Imagine creating an animation that shows a handful of balls bounce down a flight of stairs to the bottom. Gravity, collision, deflection and the elasticity of the balls are all automatically calculated by the program. **INDI PRICE £338.99**

Brilliance " Brilliant " Graphics Paint Package "
In terms of design and sheer specifications Digital Creations really seem to have done everything right. Effectiveness..." **99%.**" I really can't fault the end results" - **CU Amiga Review**
INDI PRICE £99.99 ~~£149.99~~

Final Writer The most powerful word processor to grace the Amiga...**90% - CU Amiga**
INDI PRICE £99.99 ~~£129.99~~

Final Copy 2 "About as close to being a desktop publisher as a word processor dare go" - **CU Amiga**
INDI PRICE £62.99 ~~£99.99~~

Deluxe Home Office Three great programs to make your Amiga a powerful Business tool * Kindwords 3 Word Processing * Maxiplan 4 spreadsheet Database * Info file an incredible file of business utilities allowing you to store and organise addresses, phone numbers and business contacts.
INDI PRICE £49.99 ~~£69.99~~ Amiga 500 / 500+/ 600 +1200

Amiga Software Bonanza

Ryder Cup Golf	~~£25.99~~	£11.99
Body Blows Galactic	~~£29.99~~	£19.99
Settlers	~~£34.99~~	£22.99
Simon the Sorcerer	~~£39.99~~	£22.99
Premier Manager	~~£25.99~~	£11.99
Cool Spot	~~£29.99~~	£19.99
Burning Rubber	~~£25.99~~	£11.99
Skidmarks	~~£25.99~~	£11.99
Noddy's Big Adventure (3-7)	~~£17.49~~	£15.99
Noddy's Playtime (3-7)	~~£17.49~~	£15.99
ADI French (11-12)	~~£16.99~~	£15.99
ADI Maths (12-13)	~~£16.99~~	£15.99
ADI Junior Read (6-7)	~~£14.49~~	£12.99
ADI Junior Count (6-7)	~~£14.49~~	£12.99
ADI Maths (13-14)	~~£16.99~~	£15.99
ADI English(13-14)	~~£16.99~~	£15.99

End Of Line Products

We have a limited quantity of product that we must clear, so check out these crazy prices.

Rom Sharer and 1.3 Kickstart Rom
Have you bought an Amiga 600 or 1200 and can't run your old Amiga 500 1.3 games, here's your Solution.
INDI PRICE £24.99

Roctec RocKnight
A virus can be very expensive, so why not protect your Amiga A500 / 600 or 1200 with this great Anti-Virus unit. Fits between your floppy drive and Amiga.
INDI PRICE £2.99

Amiga 500 Power Supplies
Very expensive when you can get them, so here's a once only chance to solve a problem at a crazy price.
INDI PRICE £29.99

TEL: 0543 419 999 FAX: 418 079

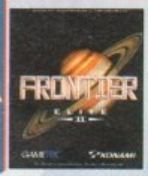
No Deposit Credit available

Exclusive Elite Pack Plus New Combat / Innovations Pack

And New Low Hard Drive Prices

FREE 2 CLASSIC GAMES

Now Indi offer you the Ultimate in choice, our Exclusive Elite Pack with all the power of the Desktop Dynamite **PLUS FREE** Batman Returns and Elite II or the New Combat / Innovation Pack. Both at the same **LOW LOW** Price



Batman Returns New Game

You may choose from many different roles from explorer to assassin, from stockbroker to trader. Battle with pirates across a galaxy of different worlds, trade or smuggle goods or become a pirate yourself. the goals to aim for are endless, the game is completely open ended.

£29.99

"The ultimate in space adventure Frontier is the important step forward from this decade" - CU Amiga 97%

Frontier Elite II New Game

A massive 2 disk program from the first film simulation. Vastly different to the console version with vivid scenes straight from the hit movie. Batman has returned in style. **£29.99**

Desktop Dynamite Pack

A1200 STANDARD FEATURES

* 68020 Processor * PCMCIA Slot * 2Mb Chip RAM * 3.5" Internal Floppy Drive * AA Chipset * Built in TV Modulator * Alpha numeric Keypad * 12 Months at home maintenance.

Amiga Elite Pack

FREE

* Wordworth AGA
* Print Manager
* Deluxe Paint IV AGA
* Oscar AGA
* Dennis The Menace AGA
* Elite II
* Batman Returns

Amiga Combat /Innovations Pack

FREE

* Wordworth AGA
* Print Manager
* Personal Paint V4
* Day by Day
* Total Carnage
* Brian the Lion
* Zool 2
* Elite II
* Batman Returns

£319.99

Hard Drive Options inc. Batman returns /Elite II

60 Mb Hard Drive Pack £469.99 80 Mb Hard Drive Pack £489.99
120 Mb Hard Drive Pack £539.99 170 Mb Hard Drive Pack £579.99
12 Months At Home Warranty from ICL

WARNING

Some advertisers are fitting 3.5" drives to the Amiga 1200. The Amiga was never designed to accept 3.5" drives and fitting one totally invalidates any Commodore Warranty. Indi only offer official 2.5" IDE drives officially accepted by Wang, ICL and Commodore.

New Desktop Dynamite Pack with FREE Classic Games and a Professionally fitted Hard Drive Option

ICL AT HOME

Desktop Dynamite Panasonic Colour Printer Pack

The Superb Desktop Dynamite pack

NEW Low Low Price

PLUS

The Best Selling **Panasonic KX - P2123** Quiet Colour Printer with **FREE** Dustcover and cable

PLUS

Gametek Frontier Elite II and Batman Returns

PLUS

Amiga Challenge: International Sports Challenge, Paradroid 90, Cool Croc Twins

£499.99

New Low Price Hard Drive Options

Desktop Dynamite Colour Printer Pack with fitted Hard Drive.

60 Mb Hard Drive Pack £649.99
80 Mb Hard Drive Pack £669.99
120 Mb Hard Drive Pack £719.99
170 Mb Hard Drive Pack £749.99
12 Months At Home Warranty from ICL

Amiga 1200 Drives Fitted By ICL

"We'll pick it up from your home, bring it back in 5 working days, give it 12 months on site warranty and that's just the beginning".

When the time comes that you just have to fit a Hard Drive to your Amiga 1200 it is important that your Amiga is handed by the experts. ICL are a Giant International Computer Manufacturing and Repair Company and have been chosen by Commodore as their authorised warranty company for Amiga products.

Through INDI the Nationwide resources of ICL will guarantee that your Amiga is treated with the care and expertise that it deserves. But that is just the beginning, your new hard drive will be given a full 12 months At Home Warranty cover. Yes if there is a warranty problem then ICL will come to your home and fix it.

Of course what's the point of having at home cover on your Hard Drive and not on your Amiga. So as part of the deal ICL will add a further 12 months at home cover to your Amiga completely FREE

DOOR TO DOOR 80Mb HARD DRIVE ENHANCEMENT SERVICE £219.99
DOOR TO DOOR 120Mb HARD DRIVE ENHANCEMENT SERVICE £279.99
DOOR TO DOOR 170 Mb HARD DRIVE ENHANCEMENT SERVICE £319.99

Complete with 12 Months At home Service through ICL
*Amiga 1200 must be in full working order.

Amiga 1200 / 030 Desktop Dynamite Superfast Digitiser Pack

Add a high performance 4Mb 32 bit RAM expansion board with a 20 MHz Floating point unit to an Amiga 1200 and you have some serious performance potential. Include a Rombo VIDI Amiga 12, The Worlds Best Selling digitiser - and Image Capture, Animation and Image Processing is all within your grasp. Mono Images are captured in real time, colour images in less than a second.

Amiga 1200 Digitiser Pack	80 Mb Pack	£739.99
Amiga 1200 Digitiser Pack	120 Mb Pack	£799.99
Amiga 1200 Digitiser Pack	170 Mb Pack	£824.99

A1200 Microbotics Memory Expansion Boards and Acclerators

Do you want your Amiga 1200 to have more memory or to go faster by simply fitting a board into the external trap door? Microbotics have an extensive range of products with the immense benefit of 'Chipup' technology. Most boards have soldered chipsets which do not allow expansion beyond your initial purchase. Microbotics products allow you to add extra memory as your computing skills grow and new software arrives demanding even more memory.

SCOOP PURCHASE

MBX 1200Z - 4Mb 32 BIT RAM + 20 MHzFPU

This high performance 32 bit RAM expansion board is easily fitted into the trap door of your A1200 giving you an instant increase in performance, allowing you to ray trace or render images, to load large images and animations, to record longer sound samples, or even grab more images all at an amazing speed.

£199.99

SAVE £50

Memory Expansion Boards

Speed	4Mb	8Mb
14 Mhz	£247.99	£447.99
25 Mhz	£307.99	£517.99
50 Mhz	£377.99	£577.99

Accelerator Boards

Speed	4Mb	8Mb
SCOOP PURCHASE		
50 Mhz	£459.99	£599.99

CHIPUP Technology

Amiga 1200 / 030 Elite Professional Pack

"Approx 1.5 times faster than an A4000/030

This is the ultimate power configuration, if your dream is to own the quickest A1200 ever then take a look at this specification: *Amiga 1200 *2Mb Chip and 2Mb Fast RAM (Expandable to an Amazing 128 Mb!!) * Microbotics M1230 XA W/50MHZ MMU (Approx 1.5 times faster than an A4000/030!!) * 12 Months at home Warranty * Choice of hard drive capacities * Optional 50 MHZ 68882 FPU Maths Processor.

80 Mb version	£849.99
120 Mb version	£899.99
170 Mb version	£929.99
68882 50 MHZ FPU	£132.54

1/2 Price Games Option
Add Batman Returns and Elite II for £29.99

PANASONIC KX - P 2123

Colour Printer plus Wordworth or Batman Returns / Elite II

for ONLY **£179.99** when purchased with Professional or digitiser Pack

No Deposit Credit

Indi are now able to offer Competitive Credit Facilities on all orders over **£100** subject to status. Payment can be over **12, 14, 36, 48 or 60 months** and can include insurance to cover repayments on the event of sickness or unemployment. Why not ring for a quote. Sameday response.

TEL: 0543 419 999 FAX: 418 079

Contents

AMIGA insight

Seven pages for enquiring minds

The most authoritative monthly columns in the business, catering for all areas of specialised Amiga activity

ARexx 156
Alex Gian concludes his two-part insight into methods to use when you're wishing to construct your own ARexx interfaces

Video 159
A tape is a tape – or is it? Adam Phillips takes a closer look at the different formats available and why we need them

Music 161
Now it's possible to keep your music perfectly in sync, thanks to some timely Midi help from Paul Overaa

Comms 163
Comms buff Phil South returns to the encryption program PGP, and its current legal problems in the States

Amos 165
Phil South looks at the new SpriteX v3.0 from Shadow Software, which looks destined to help Amos users everywhere!

Publishing 167
A picture can paint a thousands words, but it can be them too. Confused? Ben Pointer verbalises his way back to clarity

Features

FMV inside story 40
Simon Clays explores the best in video CD and discovers the power of FMV

Porn follow-up 54
AC investigates the legal loopholes that seem impossible to close

Amigados 3.0 72
The first part of Steve White's essential guide to mastering the Amiga

Corporate capers 77
At last the Amiga gets the business platform it so richly deserves

Updates 89
Personal Paint 4 finally gets the Ham8 treatment

Devil's advocate 93
Adam Philips puts ELSPA in the scoring system hot-seat

Reviews

Wordworth 3 46
A mixture of bugs and brilliance from the Digita stable

Multiframe 51
Instant DVEs for ADPro thanks to this amazing alternative interface

VideoStage 85
An exclusive look at a new player in the presentation market

TBC Plus 98
GVP's latest and best video peripheral is put through its paces

System

It's new, it's exciting, it's pulsating, it's stylish, it's downright fabulous!

System On-line 116
This month's recommended releases, the new scoring system explained, and all the latest news from the world of Amiga gaming

The advertising game 130
The unique advertising medium of the computer game and the issues surrounding this new method of selling products

Fantasy Football 134
The first part of a comprehensive look at football on the Amiga. Adam Phillips and Tina Hackett visit Stockport County to talk to the players

Better by Design 142
Jonathan Maddock journeys down to Derby to take a look at Core Design's latest offerings, Skeleton Krew and Darkmere

System Essentials 146
The new budget page that features games that won't break your bank balance

Preview: TFX 148
Simon Clays talks to Digital Image Design's chief Amiga coder, Charlie Wallace, about the most talked about flight sim on earth!

Preview: Benefactor 150
Combining the best elements from Flashback and Lemmings, Adam Phillips casts his eye over one of Psygnosis's forthcoming star attractions

Beat the System 152
The first part of our complete guide to Simon the Sorcerer plus a bundle of small tips to stop you tearing your hair out!

Game reviews

Microcosm 120
Psygnosis' graphically impressive and sonically superb shoot-'em-up for the CD32 arrives

K240 124
The sequel to Utopia, Gremlin's easy to play and use strategy/mining game, hits the Amiga

Innocent until Caught 126
Featuring a hero called Jack T Ladd and a plot about tax evasion, Psygnosis have, at last, hit the adventure trail

Legacy of Sorasil 128
You've played the demo on this month's CoverDisk, now check out the full comprehensive review

Ryder Cup Golf 138
Grab your clubs, place your tee in the ground and get back to the 19th hole as quick as possible in Ocean's AGA-only golf simulator

Maelstrom 140
The man responsible for the visuals in Blade Runner, Star Trek and 2010 makes his Amiga debut in Empire's in-depth strategy game

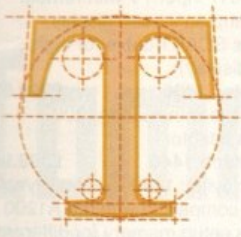
Next issue on sale MAY 5

COVER STORY

Are Commodore still hovering on the brink, or are the A1200 and CD32 dragging them back from the abyss? We look at the Amiga's future on page 33

THE COVERDISK

Page 20



Personal Fonts Maker

Tired of those boring Amiga fonts? Now you can create your own character sets with this exclusive, fully functional font designer. You can even download them to your printer!

Epoch Master
(Workbench 2/3 only)
Organise your life with this complete calendar, diary and address book

Spooler
(Workbench 2/3 only)
Let Spooler take the strain. This useful utility will monitor and control your printer output

DTree
(Workbench 2/3 only)
A Tree command for the Amiga at last. Find those missing files with this superb AmigaDOS command

Legacy of Sorasil

System presents an exclusive demo of Gremlin Graphics' Hero Quest sequel – The Legacy of Sorasil. Take on demons and avoid traps in this stunning role-playing journey into the unknown

REGULARS

News 9
Commodore prepare for summer sales with a new bundles

USA news 14
Distant Suns 5 and Hubble CD-ROM under the telescope

Comment 16
Why the revamp? What are we doing? Stevie Kennedy explains...

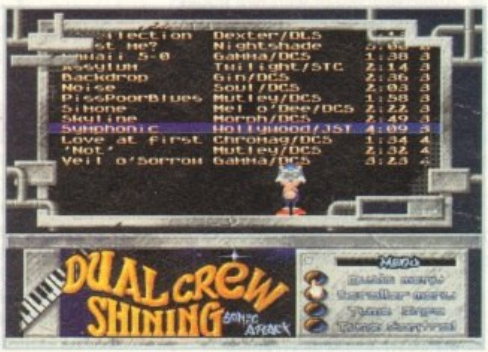
Disk offers 28/80
Upgrade Personal Fonts Manager and Colour Extensions

ESP 61
Your chance to hit back at big brother in the AC punter pages

ACAS 67
Let the DOS doctor come up with a cure

Getting started 107
An introduction to the Amiga with a round-up of reading matter

Public sector 110
There's no better place to find cheap thrills!



AMIGA MARKET

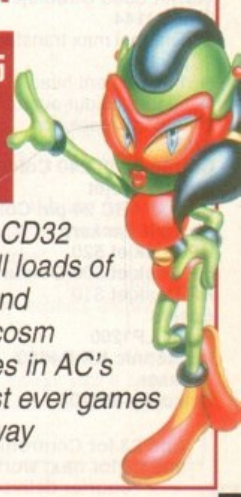
ADI GCSE 175
French, Maths and English revision made easy with ADI

Assembler 176
The first of a six-part introduction to Assembler

Classifieds 180
Pick up a bargain or sell on some old assets the easy way

Competitions

Pages 102 166



Win a CD32 plus all loads of Zool and Microcosm goodies in AC's biggest ever games giveaway

Ladbroke Computing

33 Ormskirk Rd, Preston, Lancs, PR1 2QP

Ladbroke Computing International are one of the longest established home computer dealers in the U.K. We have developed an extensive customer service policy which involves testing of all hardware prior to despatch to ensure that goods arrive in working order, offering free advice and support over the phone and keeping customers informed. Although our prices are not always the cheapest we do endeavour to offer consistently good service and backup.

All prices/specifications are correct at copy date 14/3/94 (while stocks last), and are subject to change without prior notice. All prices include VAT but exclude delivery.

How to Pay
You can order by mail Cheques/Postal Orders made payable to Ladbroke Computing. Or give your credit card details over the phone.

Delivery
Postal delivery is available on small items under £40 (Normally £3, phone for details). Add £7 for courier delivery. Next working day delivery on mainland UK subject to stock (£20 for Saturday delivery).

Open Mon-Sat 9.30am to 5.00pm.
Ladbroke Computing Ltd trading as Ladbroke Computing International.

Fax: (0772) 561071
Tel: 9am-5.30pm (5 Lines)
(0772) 203166

Printers

Star

Star LC100 Colour	**£139.99**
Star LC24/100 Mono	**£169.00**
Star LC24/30 Colour	**£239.99**

- Built in 55 sheet feeder
- 24 Pin Colour

Starjet SJ48 Bubblejet	**£210.00**
Star SJ144	**£449.00**

- Thermal max transfer colour printer
- 144 element head
- Glossy colour output
- 360 dpi resplution

Citizen

Citizen Swift 240 Colour	**£250.00**
Citizen Projet	**£199.00**
Citizen ABC 24 pin Col.	**£179.99**

Hewlett Packard

HP Deskjet 520	**£279.99**
HP Deskjet 500 Colour	**£389.00**
HP Deskjet 310	**£239.99**

Lasers

Ricoh LP1200	**£699.00**
Panasonic KX-P4400 Laser	**£499.99**
Seikosha OP104	**£479.99**

Add £3 for Centronics cable and £7 for next working day courier delivery.

GVP II Hard Drives

- Quantum SCSI Hard drive
- Ultra fast 11ms access
- Up to 8Mb RAM on board

SPECIAL OFFER

120MB NO RAM
£309
170MB NO RAM
£349
240MB NO RAM
£399

2Mb SIMM Upgrade	**£49.99**
4Mb SIMM Upgrade	**£99.99**

GVP 286 Emulator

- 16MHz 286 PC Emulator
- Norton rating 15
- Plugs into GVP II HD

GVP PC-286 Emulator **£89.00**

Legend Trakball

Ergonomically designed Trak Ball. 320Dpi resolution, 2 microswitched buttons. The Legend Trak Ball is very easy to use. Unlike normal Trak Balls the LEGEND is operated with the thumb freeing the fingers to click buttons.

ONLY £29.99

GVP Genlock

- Video processor provides real time software control of brightness, contrast, saturation, hue, sharpness, filtering, gain etc.
- Audio processor with two audio inputs, software switchable or mixable, with software control of Volume, Bass and Treble effects.

G-Lock Genlock	**£284.00**
Rendale 8802 Genlock	**£149.99**

A1200 Hard Drives

Plugs into PCMCIA slot
Fully external, doesn't affect warranty

170Mb Overdrive	**£349.99**

Phone for higher capacities.

Amiga Packs

Amiga A600 Wild, Weird, Wicked Pack **£194.99**
Includes A600, Pushover, Grand Prix, Putty, Dpaint III.

A1200 Race & Chase **£289.99**
Includes A1200 with 2Mb RAM. Trolls and Nigel Mansell

A1200 Desktop Dynamite £339.99
Includes A1200 with 2Mb RAM, Digita Wordworth, Digita print manager, Deluxe Paint IV, Dennis, Oscar

Amiga CD32 **£289.99**
2Mb RAM. Dual Speed CD ROM. Multi session, plays music CD's, 256000 colours on screen, includes 2 games Oscar and Diggers.

Amiga 4000 030 **£999.00**
Includes A4000, 030 processor, 2Mb Chip RAM, 80Mb Hard drive.

Eklipse Mouse

- 290dpi resolution
- 2 Microswitched buttons
- Opto/Mechanical mechanism
- Switchable between Amiga/ST
- Direct Mouse Replacement

Eklipse Mouse

£11.99

Floppy Drives

- 880K formatted capacity
- Double sided, Double density
- Through port

Amitek Drive	**£59.00**
A500/600 Internal Drives	**Phone**

RAM Upgrades

A500 512K upgrade
£16.99
A500+ 1Mb upgrade
£24.99
A600 1Mb no clock
£34.99

Plugs straight into A600 trap door compatible with A600, A600HD

A1230 Accelerator

- 40MHz 68030 accelerator
- Makes your Amiga 1200 run over 7 times quicker.
- Allows up to 32Mb RAM
- Optional FPU

A1230/0Mb/No FPU	**£289.00**
A1230/4Mb/No FPU	**£429.00**
A1230/4Mb/68882 FPU	**£529.00**

Monitors

Samsung C13352X	**£179.99**

14" SCART input TV with remote control and on screen display (requires SCART cable for high quality display)

Microvitec 1438	**£299.99**

Compatible with A600/A1200, includes adaptor

Microvitech 1440	**£399.99**

The Microvitec 1440 is a multisync monitor compatible with the A1200. Includes setup memory for different resolutions.

Colour SVGA Monitor	**£229.99**

High quality Colour SVGA Monitor .28 dot pitch.

A1200 VGA adaptor	**£11.99**
Falcon VGA Adaptor	**£9.99**
Philips SCART to Amiga	**£9.99**
8833 MKII to Amiga	**£9.99**

Falcon 030

- 16MHz 32 bit 68030 Central Processor, 16MHz Blitter, 32MHz 56001 Digital Signal Processor
- 1.44Mb 3.5" Floppy, up to 14Mb RAM. Displays 65536 colours from 262144 palette
- 8 Channel, 16 bit, high quality Stereo sound sampling

FALCON 1Mb No HD	**£499.00**
FALCON 4Mb No HD	**£699.00**
FALCON 4Mb 64Mb HD	**£799.00**
FALCON 4Mb 127Mb HD	**£899.00**
FALCON 4Mb 209Mb HD	**£999.00**
Falcon Screen Blaster	**£89.00**

Repair Services

Our Service department can repair Amiga's in minimum time at competitive rates. We can arrange for courier pickup and return delivery of your machine to ensure it's safety. We even have a same day service which will ensure your machine is given priority and subject to fault, completed the same day. We offer a Quotation service for £15 for which we will examine your machine and report back with an exact price for repair. If you do not wish to go ahead with the repairs then just pay the £15. However if you do go ahead then the charge is included in the minimum charge. Please note: The minimum charge covers labour, parts are extra.

Quotation service	**£15.00**
Min repair charge	**£35.25**
Courier Pickup	**£11.00**
Courier Return	**£7.00**
Same day service	**£15.00**

NEWS

By JOHN BUTTERS

Commodore prepare for summer sales

TWO bundles which Commodore believe will attract entry-level Amiga sales through the spring and summer have just been unveiled by the firm.

Computer Combat is the name of the latest A1200 pack – not surprisingly billed as Commodore's biggest and best value introduction ever to the Amiga computer.

The £349 bundle contains seven software packages – split between productivity programs and some recent games aimed at showing the computer's versatility.

They include Psygnosis platformer Brian the Lion, Zool 2 from Gremlin Graphics and Total Carnage, ICE's conversion of the coin-op shoot-'em-up.

Three of Digita International's productivity programs are packed with the machine – word processor Wordworth v2, personal organiser Day-by-Day, and the Print Manager utility.

But after several years' inclusion in Amiga bundles, Electronic Arts' art package Deluxe Paint has been replaced by Personal Paint 4 from Italian developer Cloanto.

Commodore say that after a run of packs containing the EA program, they believe the time is right for a change and Personal Paint is an ideal replacement.

The software supports HAM screen modes and is claimed to offer a huge array of image processing tools and the ability to support many file formats.

Packs: CD32 and A1200 now come with new software

And Commodore have continued their policy of rotating software packed with the CD32, now offering buyers two 32-bit games including Psygnosis's Microcosm.

It is joined by Renegade's Chaos Engine and while stocks last the £299 Spectacular Voyage pack will include the four games from the Dangerous Streets bundle it supersedes.

Microcosm took programmers three years to create. It is set inside a human body where the player mans a miniaturised craft sent to save an important dignitary from virus-like villains.

The Bitmap Brothers' Chaos Engine takes place in a Victorian age in which ten mercenaries seeks to destroy the out-of-control chaos engine.

Dangerous Streets contained the games Dangerous Streets, Wing Commander, Diggers and Oscar.

"I consider it paramount that every new bundle should be better than the last," said Commodore managing director David Pleasance. "But it gets tougher every time."

The A1200 Desktop Dynamite bundle which proved popular with buyers over Christmas will be available from dealers while stocks last.

Industry kills Monitor Man

MONITOR Man has been dropped from the games industry's classification artwork just weeks after the body representing Europe's software houses launched the age rating system.

And two games makers will not be following the ELSPA system, which is intended to ease Government and parental concern over the suitability of some software for young children.

Nintendo and Acclaim say that although they agree with the system's objectives, they would like to take a global view on the situation and are looking to the US for an alternative.

Other companies are also believed to be hoping that a replacement comes along, although many are simply relieved that Monitor Man has been removed from boxes.

There was criticism that the character was outdated and newspaper *Computer Trade Weekly* questioned its suitability for the interactive entertainment industry of the 90s.

Monitor Man: Outdated and unsuitable

"Several members decided that Monitor Man was not appropriate, and as a result the ELSPA logo has been put in its place," said ELSPA chairman Mark Strachan.

"We've been working on this system for a year. It was passed unanimously by members and will go ahead."

He added that while some firms were looking towards worldwide classification, he thought such a system would be impractical because of different standards across the world.

NEWS BRIEFS

CD32 in TGI promo

COMMODORE have teamed up with TGI Friday to help launch the restaurant's new Kids Club and further boost the Amiga's image with the young.

Children joining the club have the chance of winning one of three CD32 Dangerous Streets bundles – each worth £299 – and receive goodies including a magazine, Frisbee and T-shirt.

Details of the Amiga promotion will appear on all placement settings at TGI's 13 restaurants for the next few weeks.

Silica join Debenhams

SILICA Systems, the London-based hardware and software dealer, are to expand their High Street presence by opening computer shopping areas in Debenhams stores.

The first to open will be in the shop on Oxford Street, London, and there are plans to step up the operation in provincial cities such as Manchester.

The company already have their own shops in Sidcup and on Tottenham Court Road, London and trade from Debenhams in Croydon and Ipswich.

Clock watching

A SOFTWARE-based real-time clock that runs alongside the Harlequin 32-bit frame buffer has just been announced by Zen.

It will enable a breakfast television-style clock to be displayed in broadcast material produced with Amigas, and can be moved about the screen.

Amiga Centre Scotland (0896 87583) will be selling the program, but price remains to be fixed.

Wordworth update

WORDWORTH 3 compatibility problems have been ironed out of the software with the release of a technical update by maker Digita International (0395 270273).

Version 3.0a of the word processor is free to all registered users, and also features an improved operating speed and a "general tune-up" of the package.

"Our programmers have done an excellent job in responding so quickly to customer feedback," said Digita boss Jeremy Rihll.

"Users will notice that Wordworth now feels tighter and faster, includes enhanced file export filters and drag and drop editing."

LCL: Speech added to language courses

Speaking the language

SPEECH has been added to language software specialist LCL's range of Amiga courses following the success of Micro Spanish, their first program to feature talking.

The firm say animated cartoons that speak and speech from a native speaker make their French, German and English courses a more enjoyable and effective experience than ever before.

Pictures, adventure games and music are also used in an attempt to take students from beginner to GCSE standard.

All three courses – each costing £24.99 – are claimed to follow the National Curriculum closely and the attainment targets of each program are given in their manuals.

Upgrades from earlier versions cost £5 plus the return of the original disk to LCL at Thames House, 73 Blandy Road, Henley-on-Thames RG9 1QB. Tel: 0491 579345.

Network grows for Interworks

CLWYD-based Amiga specialist Ramiga have expanded further recently by setting up European distribution for California-based Interworks' networking products.

The firm's range of solutions will be support by professional training programmes and technical support by telephone and a bulletin board.

They include networking software ENLAN-DFS v2 and the I-Card PCMCIA Ethernet card for the A600 and A1200.

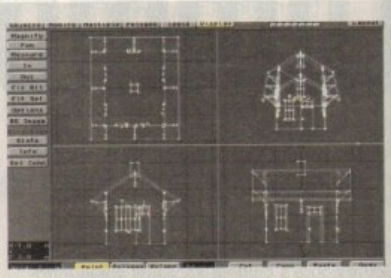
The I-Card package includes a 16-bit Ethernet adaptor and a driver compatible with Commodore's SANA-II networking standard to allow the Amiga to tie-in with the firm's ENLAN-DFS.

Each ENLAN-DFS package enables up to five Amigas fitted with Ethernet adaptors to share directories and peripherals, and is supplied with all software needed to network the computers.

"Interworks have always been interested in developing a much closer working relationship with our overseas partners," said company president Allen Brooks.

"This new partnership between Interworks and Ramiga established a path dedicated to building and supporting a professional reseller channel throughout Europe."

I-Card and ENLAN-DFS cost £292.58 each from Ramiga International (0690 770304).



LightWave: Now promised for PAL Amigas

LightRave to run LightWave

ANIMATORS can now use graphics software LightWave 3D on European Amigas not fitted with a Video Toaster, according to Ramiga International (0690 770304).

LightWave is regarded by experts as one of the premier graphics packages for the Amiga, being quick, powerful and very easy to use.

But until now it could only be used on American systems fitted with NewTek's expensive Video Toaster in a complete package costing around £2,000.

Ramiga claim that custom hardware module LightRave emulates all the functions needed by LightWave 3D, and that they can sell the two products for £799.

The company also say that LightRave delivers faster rendering than a Toaster-equipped Amiga and has support for most 24-bit graphics cards.

Full screen preview animations are promised, and because images are stored in standard Anim formats they can be transferred and edited by other programs.

Fax modem falls under £100

COMMUNICATIONS prices have fallen further, with US Robotics (0753 811180) now cutting the price of their Sportster 2400 fax modem from £149 to £99.

The move comes as rival manufacturers launch cheap modems, telephone prices continue to fall and just weeks after on-line system CompuServe cut costs for British users.

The Sportster 2400 is aimed at home and small office users who do not need high data rates. It supports Group III, 9,600 bits per second send and receive fax with 2,400bps data throughput.

The modem is BABT approved and comes with a five-year warranty.

Sportster: Fax and modem for just £99

Telephone help goes automatic

AN automated telephone answering system just set up on Commodore's official helpline enables Amiga owners to discover solutions to their problems in an efficient way.

It registers the caller's question to a chain of answers and by elimination arrives at the solution they are looking for.

Calls vary from dealers asking how to resolve a fault in the machine to users wanting to know how to plug it in.

"We introduced this service to allow callers to solve problems themselves with recorded information," said Commodore's customer service manager Terry Maguire.

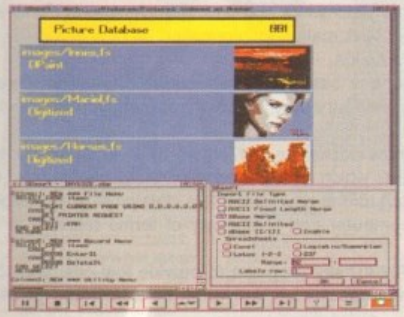
"This frees up the receptionists to get engineers out to users more quickly."

ICL's Peter Horridge added: "Most caller are happy to use the automated service. But we mustn't forget that we have to keep a balance between automation and human contact."

The help is available to holders of an ICL warranty by telephoning 0345 626090.

New Software for a New Year

Business Applications



Both SBase Personal and Professional are full-featured, fully relational and powerful databases with pull-down menus, multiple windows and full access to your Amiga's multi-tasking environment and they are now compatible with AmigaDOS 3.0 and the AGA chip set.

SBase Professional includes a powerful database management language and supports ARexx. Please call for our datasheets on these superb products.

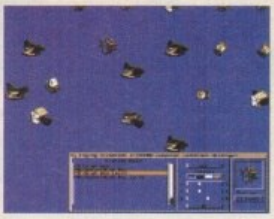
We are pleased to announce that HiSoft is now the authorised UK contact point for Oxxi's SBase 4 Amiga products (formerly known as Superbase). We have stock of both SBase Personal 4.1g and SBase Professional 4.1g and offer full technical support for these programs with our Silver and Gold support options. We can also offer upgrades from earlier versions - please call or fax for details of upgrades and technical support.

SBase 4

Professional
Personal

Utilities

Maxon Magic



This is the utility that you simply must own! Maxon Magic is a funtastic combination of 15 different screen savers, a system event sound player and many amusing sampled sounds that will not only be incredibly useful but will give you and your friends endless enjoyment as well.

the 'eyes' screen saver module in action

The Maxon Magic screen saver works in all modes, even with graphic cards, and offers you a choice of 15 different amusing and entertaining modules such as *Aquarium, Flying Breakfast, Fireworks, Crazy Worms, Messages, Clock* etc. As if that isn't enough value for money, Maxon Magic also lets you assign sounds to most system events including Window/Screen open & close events, Alerts, Keys, Mouse clicks, Requesters and more. Choose from the many sounds provided or simply use your own sampled IFFs!

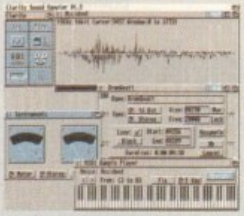
With Maxon Magic your Amiga will never look or sound the same again!

Video/Music

VIDEOMASTER

The best-value real-time video digitiser you can buy; VideoMaster gives you the ability to record real-time monochrome video with sound at 25 frames per second as well as quality full-screen stills from your camcorder or video recorder. VideoMaster RGB includes our new colour splitter, ColourMaster, and produces amazing quality colour stills.

VideoMaster AGA works on the A1200 and A600, connects via the PCMCIA slot for extra speed and freedom to use other peripherals, allows high quality stereo sound and supports HAM6 and HAM8 up to 640 x 512 resolution for stills.



Clarity16 is our premier sound sampler allowing rates up to 32KHz in 16 bit stereo and up to 48KHz in 16 bit mono on an A500; accelerated machines can handle faster sampling rates. The software provides extensive features including full edit control, a MIDI keyboard emulator, a sample sequencer, many special effects and FFT analysis. Version 1.5 has an up-to-date Workbench 3 look, in its own window and is fully compatible with faster Amigas.

Megalosound is the new 8-bit, stereo, direct-to-disk sampler package; the software is packed full of easy-to-use editing features, special effects and extras such as the ability to print waveforms and sample information.

The package allows sampling up to 84KHz mono and 56KHz stereo to memory and up to 21KHz stereo to hard disk on an A1200. Supplied with a hardware volume control and an extensive 144-page manual, Megalosound is impressive value at only £34.95.

ColourMaster

ColourMaster is a new electronic colour splitter which works in conjunction with VideoMaster for stunning colour stills.

Programming

SAS/C 6.5

The standard C compiler for AmigaDOS gets a major upgrade for 1994; now the SAS/C Development System (version 6.5) supports translation of C++ files with Streams and Complex libraries allowing you to write Object Oriented code.

The C++ translator is compatible with CFRONT Version 2.1 from AT&T. There's an improved peephole optimiser, more efficient stack extension and structure return code generation.

There are many other improvements including an enhanced instruction scheduler for the 68040 CPU and the 68882 maths coprocessor, an improved profiler, a friendlier interface to grep, support for C++ within CodeProbe and more. Workbench 3.1 include files are supplied. Upgrades start from £59.95 - please call for pricing information.

Prices

Clarity16 *new price*	***£129.95***
Megalosound	***£34.95***
VideoMaster A500	***£69.95***
VideoMaster AGA	***£79.95***
VideoMaster RGB	***£129.95***
ColourMaster	***£69.95***
SAS/C 6.5	***£329.00***
SBase Personal	***£129.00***
SBase Professional	***£249.00***
Maxon Magic	***£29.95***

All products on this page are either available now or by the end of January '94 – please call to confirm availability.

If you have difficulty obtaining our new titles, just call, quoting your Access/Mastercard/Visa/Switch/Connect card number and expiry date and we will despatch the goods within 5 working days. For an extra £5 we will despatch the day of order by ParcelForce 24 hour service. Ask for our new 32-page catalogue.

VISA Access

HiSoft
High Quality Software

The Old School Greenfield
Bedford MK45 5DE UK.
Tel +44 (0) 525 718181
Fax +44 (0) 525 713716

© Copyright HiSoft 1994. E&OE.

Books: More help for Amiga enthusiasts

Books give serious help

AMIGA enthusiasts wanting to use their computer for more than playing games are targeted for three new books in a series called Get Serious With Your Amiga.

They will cover fonts and clip art, word processors and buying an Amiga. In *Fonts and Clip Art*, there are examples from the public domain and information on how to identify the types of font and clip art available for the Amiga.

Word Processors outlines the difference between text-based and what you see is what you get (wysiwyg) programs, and where the line is drawn between word processing and DTP.

There is a 36-page look at three new packages – Wordworth 3, Final Writer and Protext 6 – and a chapter showing projects which can be tried using the reader's software.

And *Buying an Amiga* has been written for the newcomer. It is claimed to give independent advice on how to get the best computer and a glossary of terms relevant to the machine.

Publisher AmaKey Design (0908 370230) say they aim to provide low cost titles that everyone can afford and intend to make updates as and when hardware and software change. Each title costs £9.95.

Graphics system uses video speed

A NEW version of Great Valley Products' IV24 video graphics system will soon be launched to take advantage of the A4000's faster video bus.

The developers say it will be twice as fast as the existing board when installed in the A4000 and perform as well as before in other Zorro-based Amigas.

The IV24-A4000 software has been upgraded and will be accompanied by ImageFX v1.5, which fully supports the IV24 for frame grabbing, video processing, painting and rendering to tape.

The British distributor is Silica Systems, who can be telephoned on 081-309 1111. At press time prices remained to be fixed.

Smart One: Up to 14,400 baud plus fax

Modems extend Siren range

SIREN Software have added Best Data's Smart One line of modems to their range of Amiga products, with prices starting at just £69.99 for a 2,400 baud model.

But according to Siren's Simon Cobb, the Smart One 1442FX costing £199 offers the best features and value for money.

It operates at between 1,200 and 14,400 bits per second, can send and receive faxes at 14,400bps and is fax Group III-compatible.

The modem comes with N-Comm 3 software, a two-year warranty and beginners' guide. Fax software is available from the firm for an extra £49.99.

"Although a cheaper 2,400 standard modem is available , this is not really cost effective because you run up higher telephone bills," explained Cobb.

British support extends online

ONLINE information giant CompuServe (0800 289378) have announced a range of new services aimed at their 35,000 British members.

The company's product marketing manager Martin Turner says the first new service – expected within the next few weeks – will feature reviews of films, movies, books and theatres.

A Newswire feature due around the same time will contain news and sport information from around Britain. And the company plan to extend their financial and travel services, although Turner declined to give more details on these improvements.

"We recently launched four travel databases provided by the Automobile Association which are already proving to be very successful," said Turner.

"Within the coming months we expect to introduce a number of leading UK-focused news, travel, entertainment and financial products."

Members pay around £6 per month for unlimited access to more than 70 basic services during off-peak hours. There are additional costs for access to other areas and during prime hours.

Video help for ImageFX

A VIDEO tutorial showing how to get to grips with Great Valley Products image processing tool ImageFX 1.5 has just been released.

The three-and-a-half-hour Video Guide to ImageFX covers everything from basic procedures and concepts to hi-end techniques aimed at saving time and creating the best images.

There is a step-by-step guide to the tool panel and an introduction to configuring the software for a user's individual needs.

"First-time users will benefit from the itemised coverage of the tool panel, preferences settings and many other features of ImageFX," said GVP's product manager Gary Nash.

"Experts will appreciate the time-saving tips and professional techniques offered to make every project look better in less time."

GVP's British distributor Silica Systems (081-309 1111) did not have UK availability details at press time.

Playing back in real-time

DIGITAL Processing Systems' Personal Animation Recorder now available in Britain allows animation sequences to be recorded and played back in real time direct from hard disks.

Previously only available on American systems, the DR-3150 card plugs into Zorro slots on the A2000, A3000 and A4000 – replacing the record VCR and single frame controller.

Component digital recording techniques enable the recording and real-time playback of full resolution animations, avoiding bad edits, missed frames and drop-outs well-known to VCRs. Support is available for common Amiga image formats including 24-bit IFF and the card is claimed to be fully compatible with programs such as Real 3D, MorphPlus and Imagine.

Sequences built from pre-rendered AmigaDOS files can also be run from the £1,968 card, and the set-up can be expanded with DPS's AD-3000 Video Capture card. The AD-3000 – costing £1,051 – carries out real-time continuous video captures for adding human-style movement to animations (rotoscoping), time lapse and other special effects.

The DR-3150 needs a dedicated hard drive, with a 500Mb model expected to give between three and five minutes of storage capacity depending on image complexity.

Both boards are sold by Amiga Centre Scotland, who can be telephoned on 0896 87583.

CITIZEN DOT MATRIX AND INKJET PRINTERS

24-PIN ONLY £129 +VAT

FREE! FROM SILICA

- **DELIVERY** Next Day - Anywhere in the UK mainland
- **WINDOWS 3.1** Free Windows 3.1 driver with Printer Kit
- **2 YEAR WARRANTY** (Excluding consumables)
- **HELPLINE** Technical support during office hours
- **PRINTER KIT** With Citizen dot matrix printers from Silica

FREE PRINTER KIT INCLUDES:
- 3½" Disk with Amiga Print Manager
- 3½" Disk with Windows 3.1 Driver
- 1.8 Metre Parallel Printer Cable
- 200 Sheets of Continuous Paper
- 50 Continuous Tractor Feed Address Labels
- 50 Continuous Tractor Feed Disk Labels

AMIGA PRINT MANAGER
For faster printing from your Amiga, with clearer images and more vibrant colours. Available free of charge as part of the Silica Printer Kit.
- Improved Image Smoothing
- Image Scaling
- Gamma/Colour Correction
- Colour Separation
- Reduces/Eliminates Banding

KIT VALUE **£49** +VAT

PORTABLE THERMAL 126 CPS

WITH COLOUR OPTION

- Citizen Portable Notebook Printer II
- Fast LQ Output - 126cps (12cpi)
- 16k Printer Buffer/5 Fonts
- Parallel Interface
- Graphics Resolution: 360 x 360 dpi
- Epson, IBM, NEC and Citizen Emulations
- Drivers for MS Windows 3.1, MS Word and WordPerfect
- Prints on Standard Office Paper
- Built-in Auto Sheet Feeder - 5 Sheets
- Optional Colour Printing (see below) 'Presentation' - Colour Highlights & 'Artist' - Full Colour Versions
- Options: Carry Case, 30 Sheet ASF, NiCad Battery, Car Battery Adaptor
- 2 Year Warranty

RRP £349
TOTAL VALUE: £349
SAVING: £120
SILICA PRICE: £229

£229 +VAT=£269.08 - PRI 2104

COLOUR OPTIONS: Full Colour Ribbon - RIB 3416 £5 +VAT = £5.86; Spot Colour Ribbon - RIB 3427 £4 +VAT = £4.70

NEW! ABC 24 — 24 PIN 192 CPS 80 COLUMN

- 24 pin - 80 column
- 192cps Draft (12cpi) 64cps LQ (12cpi)
- 8K Printer Buffer
- 5 Fonts: 3 LQ, 2 Scalable
- Parallel Interface
- Graphics Resolution: 360 x 360dpi
- 2 Emulations: Epson & IBM
- Citizen Emulation Autoset Facility
- Quiet < 48dB(A)
- Built-in 50 Sheet Automatic Feeder
- Included: - "EASYSTART" S/w - Windows Driver - Amiga Driver
- Optional Extras: - Colour Kit - Tractor Feed - 128K RAM
- FREE Silica Printer Kit
- 2 Year Warranty

FREE DELIVERY

OPTIONAL COLOUR KIT
Add full colour to your printouts with the easy to install, optional ABC colour kit.
£23 +VAT=£27.02 - PRA 1237

RRP £189
PRINTER KIT £49
TOTAL VALUE: £238
SAVING: £109
SILICA PRICE: £129

£129 +VAT=£151.58 - PRI 2411

INKJET 180 CPS

- Citizen Projet II inkjet - 80 col
- 180cps Draft, 120cps NLQ (10cpi)
- 50 Nozzle Head - Quiet 46dB(A)
- 50K Printer Buffer
- 1 x IC Card Slot for RAM, Emulation and Font Upgrades
- 3 Fonts Built-in - Optional HP Compatible Font Cards
- Parallel Interface
- Graphics Resolution: 300 x 300dpi
- HP DeskJet Plus (PCL3+) Emulation
- Low Running Costs - Replace Ink Cartridge Only
- Auto Sheet Feeder (70 Sheets)
- Includes Windows 3.1 Driver
- 2 Year Warranty

£10 OFF PREVIOUS PRICE OF PROJET II

RRP £316.90
FREE CABLE £8.47
TOTAL VALUE: £324.47
SAVING: £125.47
SILICA PRICE: £199.00

£199 +VAT=£233.83 - PRI 2093

9 PIN 240 CPS 80 COLUMN

- Citizen Swift 90 - 9 pin - 80 column
- 240cps SD (10cpi) 216cps Draft, 54cps NLQ
- 8K Printer Buffer
- 6 Fonts Built-in
- Parallel Interface
- Graphics Resolution: 240 x 216dpi
- Epson and IBM Emulation
- Auto Set Facility
- Ultra Quiet Mode - 45dB(A)
- Advanced Paper Handling
- Colour Printing Standard - Swift 90c Optional - Swift 90
- FREE Silica Printer Kit

SWIFT 90 MONO
RRP £199
PRINTER KIT £49
TOTAL VALUE: £248
SAVING: £119
SILICA PRICE: £129
£129 +VAT=£151.58 - PRI 2290

SWIFT 90C COLOUR
RRP £218
PRINTER KIT £49
TOTAL VALUE: £266
SAVING: £128
SILICA PRICE: £138
£139 +VAT=£163.33 - PRI 2297

24PIN 270 CPS 80 COLUMN

- Citizen Swift 200/200C - 24 pin - 80 column
- 270cps SD (15cpi), 216 cps Draft, 72cps LQ
- 8K Printer Buffer (40K max) + 7 LQ Fonts
- Parallel Interface
- Graphics Resolution: 360 x 360 dpi
- Epson, IBM, & NEC P20 Emulations
- Quarter Printing and Auto Set Facility
- Ultra Quiet Mode - 43dB(A)
- Colour Printing Standard - Swift 200C Optional - Swift 200
- FREE Silica Printer Kit

£10 OFF PREVIOUS PRICE OF SWIFT 200C

SWIFT 200 MONO
RRP £259
PRINTER KIT £49
TOTAL VALUE: £308
SAVING: £153
SILICA PRICE: £155
£155 +VAT=£182.13 - PRI 2490

SWIFT 200C COLOUR
RRP £279
PRINTER KIT £49
TOTAL VALUE: £328
SAVING: £159
SILICA PRICE: £169
£169 +VAT=£198.58 - PRI 2495

24PIN 300 CPS 80 COLUMN

- Citizen Swift 240/240C - 24 pin - 80 column
- 300cps SD (15cpi), 240 cps Draft, 80cps LQ
- 8K Printer Buffer - 40K maximum
- 9 LQ Fonts + 2 Scalable Fonts (8 - 40pts)
- Font Cartridge Slot for plug in 'style' fonts
- Parallel Interface
- Graphics Resolution: 360 x 360dpi
- Epson, IBM, NEC P20 & CEL Emulations
- Quarter Printing Facility
- Auto Set Facility
- Bi-directional Interface. Auto Emulation Detection
- Ultra Quiet Mode - 43dB(A)
- Colour Printing Standard - Swift 240c, Optional - Swift 240
- FREE Silica Printer Kit

£10 OFF PREVIOUS PRICES

SWIFT 240 MONO
RRP £339
PRINTER KIT £49
TOTAL VALUE: £388
SAVING: £209
SILICA PRICE: £179
£179 +VAT=£210.33 - PRI 2560

SWIFT 240C COLOUR
RRP £359
PRINTER KIT £49
TOTAL VALUE: £408
SAVING: £209
SILICA PRICE: £199
£199 +VAT=£233.83 - PRI 2571

THE SILICA SERVICE

SILICA 15 YEARS 1978 1993 SERVICE TO YOU

Before you decide when to buy your new printer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals and accessories, or help and advice. And, will the company you buy from contact you with details of new products? At Silica, we ensure that you will have nothing to worry about. With our unrivalled experience and expertise, we can meet our customers' requirements with an understanding which is second to none. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Service".

- **FREE OVERNIGHT DELIVERY:** On all hardware orders shipped in the UK mainland.
- **TECHNICAL SUPPORT HELPLINE:** A team of technical experts will be at your service.
- **PRICE MATCH:** We match competitors on a "Same product - Same price" basis.
- **ESTABLISHED 15 YEARS:** We have a proven track record in professional computer sales.
- **PART OF A £50M COMPANY** (with over 200 staff): We are solid, reliable and profitable.
- **CORPORATE & EDUCATION DIVISION:** Volume discounts are available. Tel: 081-308 0888.

- **SHOWROOMS:** We have demonstration and training facilities at all our stores.
- **THE FULL STOCK RANGE:** All of your requirements are available from one supplier.
- **FREE CATALOGUES:** Will be mailed to you with special offers and full details of hardware, peripherals and software.
- **PAYMENT:** We accept most major credit cards, cash, cheque or monthly terms (APR 29.8% - written quotes on request).

SILICA

HOT LINE 081-309 1111

MAIL ORDER: 1-4 The Mews, Hatherley Road, Sidcup, Kent, DA14 4DX **Tel: 081-309 1111**

CHELMSFORD SHOP:	Debenhams (2nd Floor), 27 High St, Chelmsford, Essex, CM1 1DA	Tel: 0245 490654
CROYDON SHOP:	Debenhams (2nd Floor), 11-31 North End, Croydon, Surrey, CR9 1RQ	Tel: 081-688 4455
GLASGOW SHOP:	Debenhams (5th Floor), 97 Argyle St, Glasgow, Strathclyde, G2 8AR	Tel: 041-248 3896
IPSWICH SHOP:	Debenhams (2nd Floor), Waterloo House, Westgate St, Ipswich, IP1 3EH	Tel: 0473 287092
LONDON SHOPS:	52 Tottenham Court Road, London, W1P 0BA	Tel: 071-580 4000
	Selfridges (Basement Arena), Oxford Street, London, W1A 1AB	Tel: 071-629 1234
MANCHESTER SHOP:	Debenhams (3rd Floor), Market St, Manchester, Lancashire, M60 1TA	Tel: 061-839 3654
SIDCUP SHOP:	1-4 The Mews, Hatherley Road, Sidcup, Kent, DA14 4DX	Tel: 081-302 8811
SOUTHEND SHOP:	Keddies (2nd Floor), High Street, Southend-on-Sea, Essex, SS1 1LA	Tel: 0702 468039

To: Silica, AMCOM-0594-55, 1-4 The Mews, Hatherley Road, Sidcup, Kent, DA14 4DX

PLEASE SEND A BROCHURE ON THE CITIZEN RANGE

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

Company Name (if applicable): .....

Address: .....

..... Postcode: .....

Tel (Home): ..... Tel (Work): .....

Which computer(s), if any, do you own? 55AE

E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.

Stars in their skies

Denny Atkin brings news of an astronomically powerful new program, as well as the rest of the news from the States

Virtual Reality Labs Inc have just released a new version of their acclaimed desktop planetarium program, Distant Suns. Release 5.0's biggest improvement is full AGA support for A1200 and A4000 owners.

You can now pull up 256-colour images of planets, moons, and other celestial objects – about 25 are included with the program, and you can add your own to the database.

The user interface has been improved with a new tool box with 20 buttons covering the most commonly used functions. A total of 8,000 stars from the *Hubble Guide Star* catalogue are now included, supporting stars down to 16th magnitude (so dim that most amateur telescopes can't resolve them).

If that's not enough for you, VRLI are considering creating a Distant Suns CD-ROM with the entire 16 million star *Hubble Guide Star* catalogue.

If you have a CD-ROM drive on your Amiga and you're interested in that (or in a version of VistaPro on CD packed with landscapes), VRLI ask that you drop them a note or fax them and let them know.

You're no longer limited to just star gazing. Distant Suns will now render planets as 3D solid objects, complete with optional grid-maps showing latitudes and longitudes. You can zoom in and view each planet from eight different angles.

Other improvements include new ARexx commands for automating your viewing and more precise field-of-view adjustments. Distant Suns v5.0 requires AmigaDOS v2.04 or later, 2Mb of RAM (with at least 1Mb being chip RAM), and a hard drive. The program retails for $99.95; upgrades for owners of any previous version are $39.95. Add $10 for overseas air mail shipping.

VistaPro, the popular 3D landscape rendering program, is in for an enhancement as well. Version 3.1 was being finished up as this article was being written, and is expected to include better AGA support, as well as support for the Picasso, Retina and OpalVision display board.

Also new is the ability to export your landscape files in AutoCad DXF format, so they can be brought into 3D rendering programs.

Pricing wasn't available as this went to press contact VRLI for upgrade information at phone (805) 545-8515; fax (805) 781-2259; or write them at 2341 Ganador Court, San Luis Obispo, California 93401 USA.

Shoot the Moon

Following on the heels of Microbotics' acquisition by Paravision, hard-disk utility manufacturers Moonlighter Software Development's product line have been acquired by Intelligent Designs Inc. The company will continue to support and develop Ami-Back, Ami-Back Tools, and TapeWorm-FS.

Proof of the company's continued commitment to the products is IDI's announcement of Ami-Back 3.0, which should be available early this summer.

The updated hard drive backup program will be the first ever to use an object-oriented user interface, which should make it easier to use for novice users, but more powerful for experts.

New features include support for the Tar tape-backup format, useful for transferring files to PCs, Macs, and Unix machines; SmartScribe, an intelligent script-recording feature; backup or restore of multiple devices in a single operation; and full support of AmigaDOS 3 features.

The new user interface is helped out by thorough on-line documentation with a comprehensive index. Ami-Back 3.0 will retail for $89.95; a discount will be available for registered users of earlier versions.

● *Contact Intelligent Designs, 5742 Old Cheney Highway, Orlando, Florida 32807; phone (407) 382-0227; fax (407) 384-9391.*

GVP ditch SCSI-2 card for the A4000

GVP have cancelled development of the A4098 SCSI-II card. This follows their advertising of the A4098 SCSI-II card, a Zorro III DMA adaptor for the Amiga 4000, for the last few months. GVP marketing manager Steve Peoples said that the company weren't satisfied with the card's performance due to the DMA problems that plague the A4000/040.

Rather than release a card that wouldn't perform well on the majority of A4000s in the field, GVP halted development until Commodore can provide a solution for the Zorro III DMA problem.

If you have deep pockets, though, you can still get a fast SCSI-II solution from GVP. The soon-to-be-released G-Force 040/40MHz card for the Amiga 4000 will have an optional SCSI-II FAST expansion card. Because the card mounts on the G-Force processor board, it's not affected by the bad-Buster Zorro DMA transfer problems.

ImageMaster Redux

Black Belt Systems' new ImageMaster R/T 1.5 adds a host of new abilities to what was already one of the most feature-packed image-processing programs on the market.

Many of the image operators – such as radial wave, dome, and caricature – have been greatly improved, and there are new operators such as Gaussian Blur.

Display speed on AGA machines have been increased, and ImageMaster R/T now supports loading and saving all the major Anim formats – Anim5, Anim7, and Anim8.

The interface has been revamped, with new area selection capabilities, zebra stripe area selection indicators, and more accurate selection boundaries.

The morphing interface has also been upgraded, and there's a new easy-to-use spline-based sequencing interface.

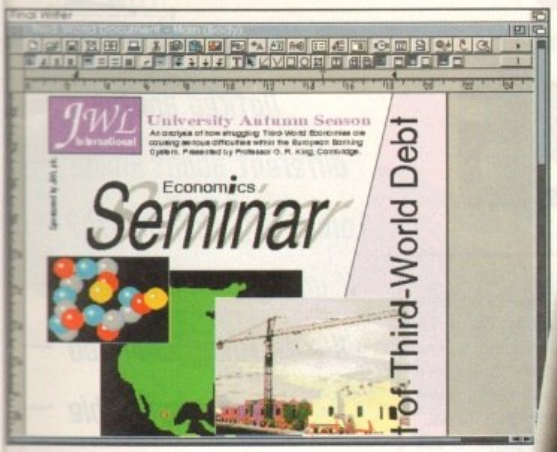
And if you're using ImageMaster's paint functions, the new drawing tablet support. ImageMaster R/T has done away with paper documentation in favour of on-line hypertext help.

Normally I don't like this option – it's nice to hold a complete manual in your hands when you're working with a program – but Black Belt have outdone themselves with their help system. ApAssist is a very easy-to-use, fast hypertext program that allows Black Belt to embed illustrations in their help files.

With a program as complex as ImageMaster, having the documentation on-line is actually a plus. ImageMaster R/T's retail price has been dropped to only $99.95. Upgrades are available for $25 for US users, and $30 outside the US Orders must be in American funds, but credit cards are accepted. Contact:

● *Black Belt Systems, 398 Johnson Road, Glasgow, MT 59230; phone (406) 367-5513; fax (406) 367-2329; BBS (306) 367-2227.*

You can't use Software this Powerful, and produce Documents this Good...

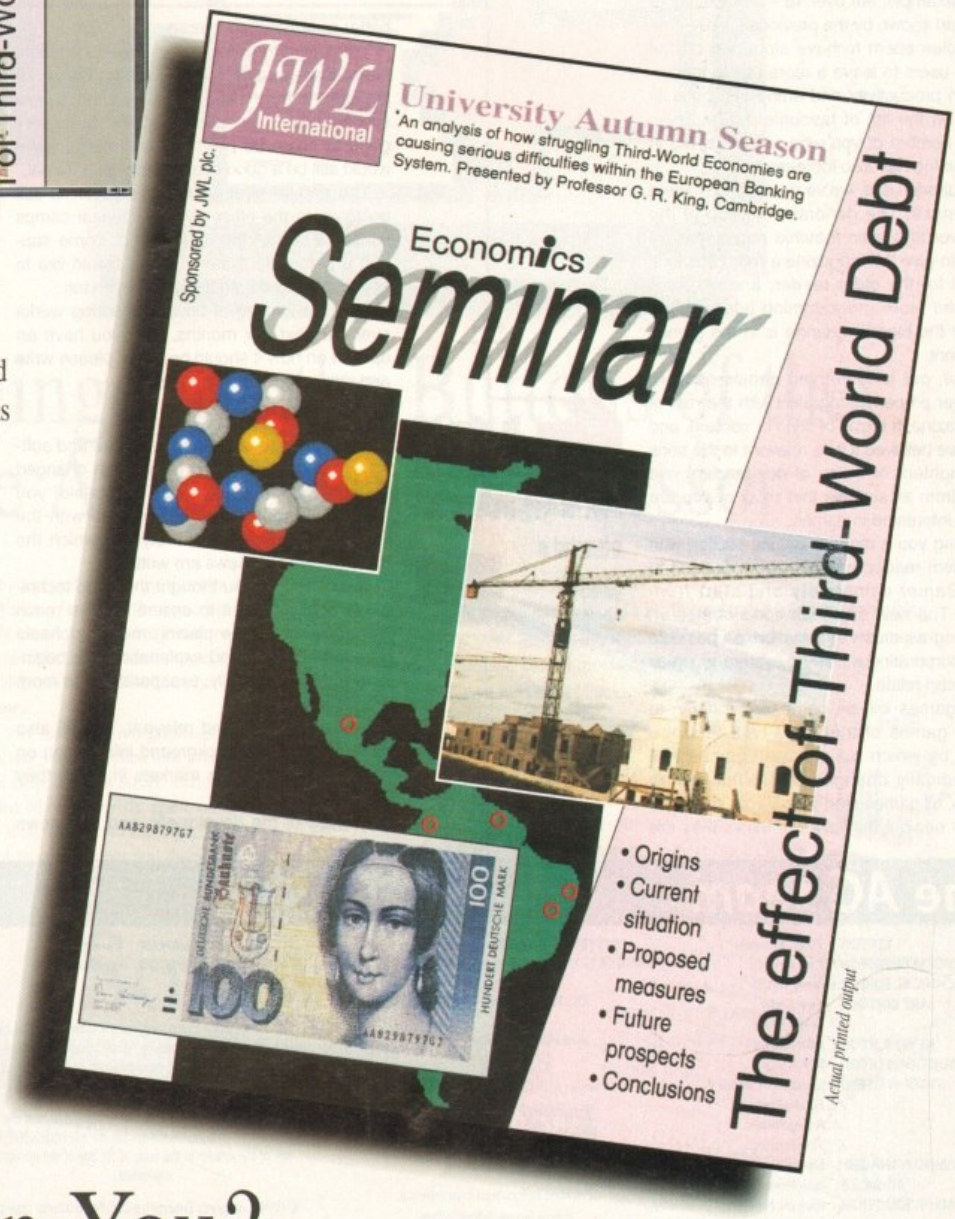


Unless, you buy an expensive PC or Macintosh™, a high priced Colour PostScript™ Laser Printer, and a complex, costly Desk Top Publishing Package...

If you're looking for a quality Word Processor/Publisher that performs as well as this, you may well start by searching through PC and Apple™ Macintosh™ software catalogues.

Even then though, you probably won't find a program that will combine the very best in Word Processing *and*... easy to use integrated DTP type facilities.

You certainly can't find software for your Amiga that's capable of all this...



Actual printed output

...or Can You?

Ringing the changes

Noticed anything different about Amiga Computing this month? If you have, you might like to know why you are responsible

Magazines don't change the way they look all that often, and it is even rarer that they make an effort to change the style of their editorial content.

This month, we have begun a process of change which, over the next couple of issues, will tailor *AC* to fit your tastes and preferences even closer than before.

Your answers and responses to the reader survey carried out late last year are the impetus behind this process, and without you the change would not have taken place. So just who are you anyway?

We have always appealed mostly to the older reader with a broad range of interests, rather than the single-minded teenage games player, but the last year has seen a huge rise in the number of mature enthusiast readers the magazine attracts. Over 90 per cent of you, for example, are over 18 – a much higher figure than shown by the previous survey.

Consoles seem to have siphoned off the younger users to leave a more stable readership with productivity and enthusiast pursuits highest on the list of favourite Amiga uses, and the number of you who are interested in programming has also increased.

As a direct result, we've decided to make a few changes. The general re-styling of the front cover and main features pages was an attempt to give the magazine a more 90s look and feel for the older reader, and we have introduced more programming tutorials, but probably the biggest change is in the games department.

Gamer, our long-running games section, was never properly integrated with the rest of the magazine in terms of style or content, and though we believed it was relevant to the sons and daughters of many of our readers, we noticed from all surveys that most of you are still very interested in games.

To bring you a modern games section with the modern reader in mind, we've decided to scrap *Gamer* completely and start from scratch. The new approach concentrates on presenting as much information as possible while incorporating a scoring system to which readers can relate.

New games will be compared, briefly, to existing games of the same type, and the method by which we score all games has been radically changed. From this month onwards, all games start with 50 per cent, and go up or down if the reviewer thinks they are better or worse than average.

To most magazines these days, 80 per cent is an average score, and anything below 70 per cent is truly awful. Under System's new scoring regime, a game would have to be very good to score 80 per cent, and 70 per cent would still be a good score worthy of a medal.

The debate over scoring, however, is still going on in the office, with two equal camps fighting it out for the upper hand. Some support a percentile system, others would like to see games marked out of 20 or even ten.

We'll be looking at how the scoring works over the next few months, so if you have an opinion on how it should be done, please write and share your views with us.

We noticed from all surveys that most of you are still very interested in games

GRATIFYING

Our coverage of serious hardware and software has been tweaked rather than changed because a gratifyingly large number of you stated that you were satisfied both with the level of coverage and the style in which the more technical reviews are written.

Only a few of you thought them too technical or confusing, but to ensure that we reach everyone we will be placing more emphasis on jargon busters and explanations for beginners without, hopefully, exasperating our more erudite readers.

Where possible and relevant, we will also strive to bring you background information on new products and the markets in which they will be sold.

Profiles of the developers, and overviews of, say, the videography industry should put product reviews into perspective and give readers a better understanding of where the latest wizzo gadget comes from.

A criticism of this style has, in the past, preached that reviews should concentrate solely on the subject at hand, but we feel from looking at the views of our readers that you are a bunch of well-balanced people with broad interests.

If we can present the information you buy the magazine to read and, in addition, inform and entertain you with related material, we hope you'll agree that the magazine will be a better overall read.

The use of background and related material will also be prevalent in System, our new games section, so we hope you enjoy the new feel to reviews.

If not, and you object strongly enough to write to Ezra Surf, please do. We are determined that before 1994 is out we will have reached a formula with which the vast majority of those who pay our salaries are content. AC

The AC team

EDITOR Stevie Kennedy
ASSOCIATE EDITOR Paul Austin
TECHNICAL EDITOR Steve White
ART EDITORS Tym Lecky, Terry Thiele
NEWS EDITOR John Butters
PRODUCTION EDITOR Phil Morse
STAFF WRITERS Jonathan Maddock, Simon Clays, Adam Phillips, Tina Hackett
ADVERTISING MANAGER Simon Lees
AD SALES Jane Normington
AD PRODUCTION Barbara Newall
MARKETING MANAGER Lucy Oliver
PRODUCTION MANAGER Sandra Childs

SYSTEMS MANAGER David Stewart
CIRCULATION DIRECTOR David Wren

DISTRIBUTION COMAG (0895) 444055

SUBSCRIPTION 051-357 2961

Member of the Audit Bureau of Circulations

ABC 58,305

Jan-June 1993

Published by Europress Enterprise Ltd.
Europa House, Adlington Park,
Macclesfield SK10 4NP
Tel: 0625 878888
Fax: 0625 850652

CHAIRMAN Derek Meakin
MANAGING DIRECTOR Ian Bloomfield

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

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

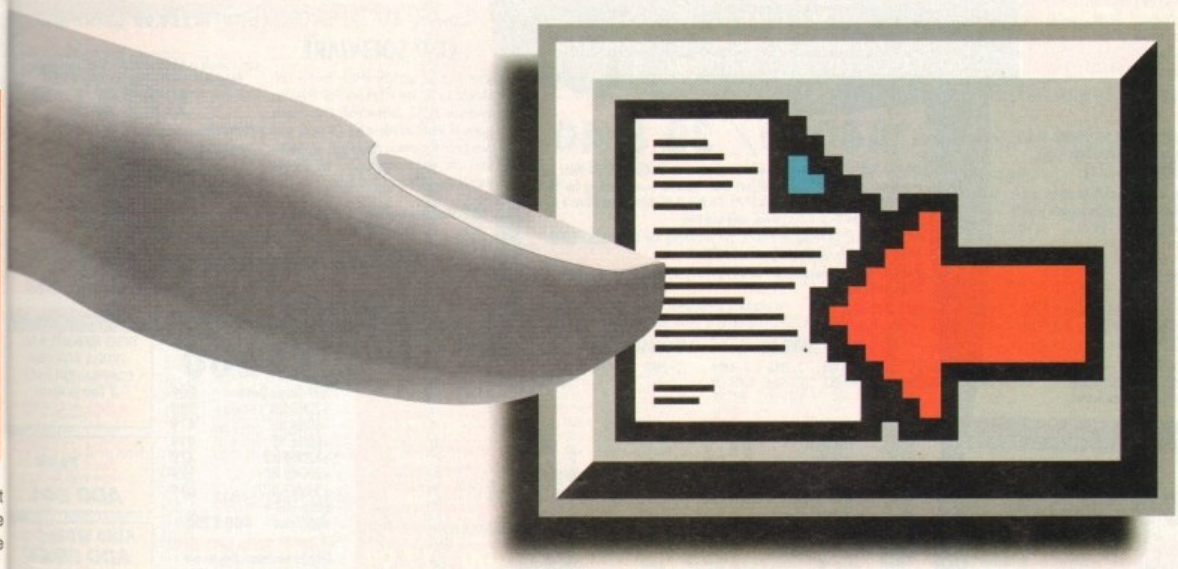
©1994 Europress Enterprise Ltd. No material may be reproduced in whole or in part without written permission. While every care is taken, the publishers cannot be held legally reponsible for any errors in articles, listings or advertisements

europress ENTERPRISE

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

Printed in the United Kingdom by BPCC Ltd, Carlisle

You Can Now... with New *Final Writer*™



Put *Your* Finger on the Buttons of the Ultimate Amiga Word Processor

From the publisher of the acclaimed Final Copy II comes its new companion, Final Writer - for the author who needs even more! If you already use an Amiga Word Processor, it won't include the complete and comprehensive array of features found in this latest addition to the SoftWood family.

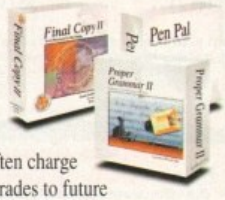
Can your Word Processor...

Output crisp PostScript™ font outlines on *any* graphic printer (not just expensive lasers), and was it supplied with over 110 typefaces? Import, scale, crop, view on screen and output structured EPS clip-art images (Final Writer is supplied with a hundred), again, on any printer? Also create structured graphics and rotate them along with *text* to any angle, giving you DTP quality presentation? Provide a huge range of printing options (eg. thumbnails, scaling, crop marks etc. on PostScript™ printers) and fulfil other advanced Word Processing functions easily such as automatic indexing, table of contents, table of illustrations and bibliography generation? With Final Writer, this is now available to you along with a list of features that just goes on and on. We know that you'll be impressed by this revolution in Amiga Word Processing, but don't be put off by it's advanced capabilities. With its complement of user definable Command Buttons and Superb Manual, Final Writer is simply one of the easiest programs to learn and use.

Adobe PostScript
Superior font & graphical imaging technology

Final Writer is not just a one-off product...

SoftWood are acknowledged as the World's leading software company publishing for the Amiga and no other system. So, if Final Writer exceeds your current requirements - whatever your Document Processing needs, whatever your Amiga - SoftWood will still have the Perfect Package for you...



Pen Pal or Final Copy II and Proper Grammar II...a Complete Range.

Once you become a registered SoftWood user, you'll gain access to unlimited *free* UK technical support (others often charge you or don't provide support at all) and preferential upgrades to future versions of these and other exciting new products being developed right now.

SoftWood

Quality software for your Amiga

If you've outgrown your existing package ask about our 'trade up' options from your current Word Processor (other publishers' WP's are eligible too).

SoftWood Products Europe
New Street Alfreton Derbyshire DE55 7BP England
Telephone: 0773 836781 Facsimile: 0773 831040

Available from all good dealers or, contact us for a list of nationwide stockists.

All information correct at time of going to press. E&EOE. All Trademarks acknowledged. The document on the previous page was output on a low cost Canon Bubble Jet.

Please rush my personal copy of the new Final Writer & Final Copy II information pack, including samples from popular printers, and a list of stockists to... (clip the coupon or call 0773 836781 now!)

Name & Address:

please include your postcode

ACO

Hobbyte

COMPUTING
ESTABLISHED 9 YEARS

10 MARKET PLACE
ST ALBANS HERTS AL3 5DG
TEL: (0727) 856005/841396

CALLERS WELCOME AT OUR BRANCHES OPEN 9-5.30, MONDAY TO SATURDAY, (10-4.30PM SUNDAYS

WARNING

Due to the exchange rate, or manufacturer's changes or due to current RAM shortage, some prices may alter, either up or down, during the several weeks between going to press and the end of the month of issue. We would ask that prices be confirmed by telephone before ordering.

HOW TO USE THIS AD

Exclusively from Hobbyte, you can choose your own Amiga and software combination and still benefit from the huge savings only available from package deals.
Want an A600 pack for small children? No problem!
A professional pack for music or programming? It's up to you!

WE WANT TO BEAT ALL PRICES!

CALL US!!

OLD AMIGA TRADE-IN*

The best trade-in allowance, extra for peripherals and accessories. Trade in your old machine for a brand new A600/1200/4000/CD^{32} or even a PC.

After trade-in, equipment is checked and refurbished by our engineers and is then offered at bargain prices, complete with 3 months warranty.

A500s FROM £139
A1500s FROM £199

A600 SD/HD.....from 159	HDs + Controllers....from 179
A3000s.....from 499	GVP HD8 40/52.....209/229
CDTV.....179	XT/AT BBoard.....50/91
A590 20/40MB....129/159	

OTHER ACCESSORIES - PLEASE ASK.
*Acceptance of pre-V2 machines may be limited

CD^{32} CONSOLE SPECIAL

Choose any* 3 CD discs (see software section) for **£59.90** *up to £34.99 RRP each

CD^{32} SOFTWARE

Over 75 titles specially written for the CD^{32} should be in stock (phone for list), inc. Syndicate, Zool 2, Jurassic Park, Chaos Engine, many of which include a full CD music track alongside the game. About half of existing CDTV titles are compatible. CD^{32} will also play normal music CDs and CD+G discs

CD^{32} Standard warranty is 12 months return to base.
12 months on-site warranty **£39.99**
Extra 2yrs on-site warranty **£69.99**

CD^{32} Console (with Oscar AGA, Wing Commander, Dangerous Streets, Diggers +Joypad FREE)
£279
Now with CHAOS ENGINE and MICROCOSM

CD^{32} + FMV Card as above
£425

AVAILABLE NOW!
Full Motion Video module for CD^{32} (with Free Music Video Disc) ..... £189.
COMING SOON
Floppy drive, Keyboard, Mouse CD^{32} for A1200

A4000/ 30 & 40

A4000/30: AGA Chip Set + 68030 processor, 68882 25/50 MHz co-processor option, 256,000 colours from 16.6M, scan doubling for flicker free display, Mouse, Amiga 3.5"/1.76 MB 3.5" drive, Hard Drive as below, Amiga DOS 3.0 system and utilities.

A4000/40LC: Desktop as above, but featuring the blistering 68040 processor, with full floating point facilities.

A4000/40TW: Tower with full 040/FPW/MMU processor with SCSI-II & IDE 1/Faces.

All above, full UK models with next day on-site warranty.

WARRANTY UPGRADES: Same Day Warranty £39.99, 3yr Ext. Warranty £99.99

WITH FREE DPAINT IV AGA WORDSWORTH 2 AGA + DIGITA PRINT MANAGER

HD SIZE MB	A4000/30 1+1MB SUBTRACT £60	A4000/30 2+2MB STANDARD VERSION	A4000/30 2+4MB SUPER EXP. VERSION	A4000/40LC /40TW 2+2MB	A4000/40LC /40TW 2+4MB	EXTRAS
80		999		-	-	
120/130		1059		1589	-	
214				1639	1989	
240/260		1429		-	INC	
340		1189		-	-	
520/540		1389		1879	2279	
1GB		-		-	2579 SCSI-II	
2.4GB		-		-	3179 SCSI-II	

PRICE CHANGES TELEPHONE FOR INFO

WARNING: Not all A4000 versions run most serious AGA software. Please phone for details. ADD £70 from 2 + 2MB prices

ADD £80 • ADD £80 • ADD £80 • ADD £80 2+4 MB version comes with 2MB chip RAM + one free chip of fast RAM, for on-board expansion to 8MB

Extra 2MB for 2+2 versions £99 • Extra 4MB for 2+4 versions £159 • 68882 copros - see 'Expansion' (across) • 120MB SCSI Optical Drive for backups £599 • Microvitec Autoscan 1438 monitor recommended £290

SEE 'EXPANSION' SECTION OPPOSITE

A500/600/CDTV

INCLUDED	PLUS AS STANDARD	WARR-ANTY	ALONE £	STARTER £	EXTRAS
A500+ 1MB		12 months return to base	179.99	194.99	Extra 1MB £25
A500+ CARTOON CLASSICS	Lemmings, Deluxe Paint III, The Simpsons, DPaint III		194.99	209.99	
A600 SD WILD, WEIRD AND WICKED	Silly Putty, F1 Grand Prix, Pushover, Deluxe Paint III*, 700 clip art sit	12 month at home	194.99	209.99	Extra 1MB £30 + 2MB PCMCIA £109 Real-time Clock Reachover £45
A600 HD 85 EPIC	Epic, Rome, Myth, Trivial Pursuit, Amiga Text, Deluxe Paint III*, 700 clip art sit		334.99	349.99	
CBM 1084 SD	+ leads	1 year	199.90		PSP Monitor to TV Converter - £99
Microvitec Autoscan 1438	Leads, ideal for AGA leads. Needs Adaptor	1 year	294.99	19.99	
Star LC100C	Top Value 9 pin colour printer	1year	149.99	159.99	
Citizen 240C	24Pin colour	2 year	252.90	262.90	

Return to base HD versions are SD units fitted with top quality 3rd party drives and come with install disc + full documentation. *DPIII needs 2MB for animation on HD models.

REFURBISHED ONLY AVAILABLE

NO OTHER DEALER CAN BEAT OUR CREDENTIALS

- Multi-million company with 10 years experience in Commodore product and here to stay
- Commodore trained staff are friendly and helpful and are parents, multimedia, educational, games, programming or technical specialists (usually more than one!)
- Open 9-6 pm Monday to Saturday and 10.00 am to 4.30 pm Sundays PLUS December late nights on Thursdays (St Albans only) for convenient shopping.
- Callers welcome for advice and demonstration at our 1600+ sq ft High St, Town Centre branch
- Same day despatch for most orders received by 5.30 pm; express am and Saturday services available
- Hardware carefully handled and delivered safely and reliably by caged, insured, top name courier service
- Pre-despatch testing on Amiga systems
- Free 30 day courier collection and delivery of NEW replacement.(except product with on-site maintenance)
- Hotline support and in-house engineers
- Upgrade and trade in offers to keep you up to date
- Exceptional after sales service
- BFPO and export welcome

NOT JUST ANOTHER MAIL ORDER COMPANY

For years a major player in Amiga Mail Order, Hobbyte also boast extensive expertise and experience in specification and support of multi-machine and specialist systems. Hobbyte have been recommended and trained by Commodore and successfully won major orders and support contracts from London Boroughs, MOD, educational establishments etc. We are pleased to be placed on tender lists.
This expertise is available to all our customers.

WITH ANY COMPUTER

CHAOS ENGINE, SYNDICATE, PINBALL FANTASIES, NICK FALDO'S CHALLENGE GOLF
ADD £17.99
OR LEMMINGS, SIMPSONS, CAPTAIN PLANET, PLUS D PAINT III
ADD £14.95

A1200

2MB Single Drive	269
+20MB HD	359
+60MB HD	419
+80MB HD	429
+120MB HD	479
+200MB HD	529
+340MB HD	679
Extra 4MB + clock fitted	ADD £200

**CBM APPROVED HARD DRIVES
Full legal installation/utility disc and documentation and come with CBM on-site warranty service.

DON'T FORGET YOUR STARTER PACK! ADD £15 (SEE VALUE PACKS BELOW)

NIGEL MANSELL AGA, TROLLS AGA AND COMPILATION PACK
3 Top games
ADD £9.99

DESKTOP DYNAMITE PACK PLUS
2 HOT LIST TITLES
ADD £44

KIND WORDS 3
ADD £9.99

WORKS PLATINUM
ADD £19.99

NEW COMBAT/INNOVATIONS PACK
ADD £44

SPECIAL

Citizen ABC 24 pin colour printer with sheetfeeder and Starter Pack .....ONLY £170

HOBBYTE VALUE PACKS

Hobbyte are famous for their packs, allowing you to choose what you want, whilst still benefitting from package deal savings.
Remember, a bargain is only a bargain when you like what you get! So, if you aren't Wild, Weird or Wicked, Sleepwalker sends you to sleep, Space Ace leaves you feeeling em
Paradroid does worse, if Basic basically isn't you, exercise your options and get real value for money from Hobbyte

TRAMPY'S AND NODDY'S PACK

Fun and educational for 2 to 11 years
(Some help may be required)

SPECIAL WITH AMIGA £39 — ALONE £59

Noddy's Playtime OR Big Adventure OR Merlins Maths	8 magical learning games at 3 levels, PLUS Junior Art pack, keyboard overlay and map
	6 National Curriculum oriented games, stage 2, 7 to 11
The Shoe People OR Fun School 2	6 games with Trampy and friends, 6 years and under.
	The "Fun School" suite have won every award going. 5/6 wonderful animated games. 3 to 11 years, specify age.
Fun School 3 or 4 OR ADI Jnr Reading OR Counting	The loveable extra terrestrial entertains 4 - 7 year olds and helps towards achieving National Curriculum levels 1, 2+ 3
Deluxe Paint II + 700 Clip Art pics	Pics inc. children, Fairytale + Legend characters, Sport, Cartoons, etc.
Hobbyte Primary Educational PD Pack	Containing 10 fun while you learn games
Hobbyte 30 Easy Children's Games Pack	Simple games, or those with very easy levels. Even the youngest will be able to use some of these

STARTER PACK

A must for new users! All you need in one value pack

WITH AMIGA £15 — ALONE £25

10 blank discs	Make working copies of Workbench and other original applications discs as soon as you get them
Virus Killer	Check discs regularly, especially if sharing with friends
Mouse mat Plus Microswitched Joystick, 80 cap. lockable disc box, Dust Cover	Helps prevent dirt/dust collecting on mouse contacts

SERIOUS USER'S PACK

Interested in music, programming and graphics? Then this pack is for you!

WITH AMIGA £39 — ALONE £49

Easy Amos	THE programming language. Wonderful manual is simple and entertaining - ideal for complete novices
OR AMOS Professional ADD £10 for this option	97% AF rating - the second highest rating EVER given. Learn to professionally create your own games, utilities. Loads of sample progs included
Hobbyte AMOS PD Greats	Dozens of utilities, Protracker music modules, example programmes that no AMOS programmer would be without.
Deluxe Paint III, plus 700 Clip Art pics	Create your own designs to incorporate into your AMOS progs
MIDI Recording Studio & MIDI Interface	If you have a MIDI instrument, this is everything you need to compose and edit your music
OR AmigaVision	Powerful presentation and production tool

HOT BUG GAMES PACK

The top-selling Hobbyte Hot Lot pack now includes the ultimate joystick !!!

WITH AMIGA £44 — ALONE £59

"THE BUG"
10 "Hot List" Games The GREATEST!
80 Prog. Hobbyte PD Greats Pack II 10 blank discs, mouse mat, 80 capacity lockable disc box, plus dust cover

The only joystick **ever** to be given a Gold rating 92% AF, positive single-handed action, small and lovely!

See listing to the right for current HOT LIST, or phone for latest changes. Children's games available.

Includes top games like Battlecars, Star Trek, Computer Conflict, Megaball, dozens of arcade classics, board classics and 'shoot-em-ups', Utilities, Word Processor, Spreadsheet, Database + Desktop Publisher and the ultimate virus killers - a must for every Amiga owner!

DESKTOP DYNAMITE EXTRA

Wordsworth 2 AGA.
Deluxe Paint IV AGA
Digita Print Manager
Dennis the Menace AGA
Oscar AGA
Trolls AGA
PLUS
2 'Hot List' titles
YOUR CHOICE - SEE ACROSS

SPECIAL WITH AMIGA £44 — ALONE £59

Wordsworth + Deluxe Paint IV are top packages in their fields, EACH with RRP's almost twice the total pack price. Together they can produce high quality documents including graphics in up to 256,000 colours

THE HOT LI

GREAT individu packaged ga BETTER THAN REST !!
(previous RRPs £39.99 eac

ANY 10 £29.
Or see packs across

Thunderbirds (7yrs+) † -
Silly Putty - 90%+ lots of
Elf/Taki/Puzznic (counts
Paperboy II †
Die Hard 2
Colossus Chess
Challenge Golf
Battleships classic board
Groeme Souness Soc
Neighbours
Frankenstein †
Captain Planet
Silkworm Helicopter
Tag Team Wrestlir
Edd the Duck †
Stack Up †
Lemmings 92%
Round the Bend
Fist Fighter
Sporting Triangl
World Cricket
Bart Simpson
Spiderman/Capt Ameri
Arcade Trivia
Xenon - C+VG Game of t
Blade Warrior - A Power,
superb reviews
Arnie
AWARD WINNE
Space Ace, Kick Off, PipeMa
(counts as 2)

† PARTICULARLY SUIT CHILDREN (MAY NEE @ NOT A1200 COM TITLES MAY VA

*DPIII needs 2MB for animation

KIND WORDS 3 ADD £9.99 — WORKS PLATINUM ADD £19.99 — NEW COMBAT/INNOVATIONS PACK ADD £44

• AMIGA SPECIALISTS • STAR GOLD DEALER • CDTV CENTRE • PHILIPS APPOINTED DEA

MONITORS/ACCESSORIES

CBM 1084SD 1084/1085 + leads 194.90
CBM 1942 dual sync .28 dpi AGA monitor + speakers 339.90

MICROVITEC AUTOSCAN 1438 14" .28dp low radiation 15-40kHz for 1200/4000, infinately variable scan rates between 15KHz (default on boot-up) and 40 KHz for all AGA modes in this range.
With tilt and swivel stand 294.90
Microvitec Cub-scan 1440 14" .28dpi (with full screen control) 399.90
Microvitec Cub-scan .28dpi for 1200/4000 as above, but 20" 1039.99
Microvitec Cub-scan .1782, 17", .27dpi, 29-82 KHz horiz. scan 889.99
Adaptor for A1200/Microvitec (not required for 4000) 19.99
Panasonic 1537 31-62kHz 14" 519.90
Philips Brilliance 2110 21" 1790.90
Hi-Fi Speakers 37.90
Hi-Fi Pro Speakers 57.90

FLOPPY DRIVES

Cumana 3.5 external drive, daisychain + on/off 49.90
NEW AMITEK (Sony) 31/2" Ext. Drive anti-click/anti-virus 56.50
PC 880B with anti click + Blitz back up and virus protector, Cyclone compatible 75.99
Dual drive as PC 880B 124.99
High density 1.76MB ext. drive for any Amiga (WB 2) 98.50
High density 1.76MB ext. drive for any Amiga (WB 2) + 10 HD Discs 104.95
Power HD internal floppy for 1500/2/3 4000 ..... 94.90
Power HD internal floppy for 500/600/1200 ..... 94.90
A500 replacement internal floppy 54.99
A600/1200 replacement internal floppy 69.99

HARD DRIVES/ACCELERATORS

A500/2000

A590 20MB	139.90
A500 Internal 20MB HD	184.99
A500 Internal 60MB HD	249.99
A500 Internal 80MB HD	279.99
A500 Internal 120MB HD	339.99
Trilectx SCSI 80MB HD	289.99
A570 for 2.04 1MB 500 + **FREE** Fred Fish & Hutchinsons Encyclopaedia	98.90

A600/1200

GVP M1230 II 40MHz	239.90
GVP M1230 II 40MHz 4MB	439.99
GVP M1230 II 50MHz 4MB +MMU	559.99

A600/1200 HD UPGRADES

	SELF FITTING* (on-site invalidated)	CBM APPROVED FITTING** (with on-site)
20MB	89.99	-
60MB	149.99	199.00
80/85MB	189.99	234.00
120/127MB	229.99	274.00
170MB	269.99	314.00
240/250MB	329.00	499.00

INTERNAL CLOCK ..... POA
*with cable & disc ADD £14.99 for Hobbyte fitting
**Including FREE courier collection & delivery

1200 OVERDRIVE EXTERNAL HDs

Overdrive 35 NO HD	139.50
Overdrive 35 80MB HD	237.50
Overdrive 35 120/130MB HD	297.50
Overdrive 35 220/260MB HD	337.50
Overdrive 35 340MB HD	417.50
Overdrive 35 540MB HD	POA

AMIGA 24 BIT HARDWARE

TOASTER COMING SOON!

DCTV 376.99
GVP IV + VIU-S 965.99
GVP IV + VIU-CT 1255.99
Impact Vision 24 ..... POA

HARLEQUIN 32 BIT FRAMEMAKER BOARD
• **16.7 million colour** photo realistic display • **real time 24 bit animation** • **Optional Alpha Channel** - superimpose high quality graphics onto live signal, or smoothly blend point images • **Optional Double Buffering** - 2, 24 bit displays instantly available
SUPPORTS: TV Paint, Vlab, Calligari, Sympatica, Ad Pro, Real 3D + others

H1500 1.5MB £929
H2000 2MB + Alpha £999
H3000 3MB +D/Buffer £1099
H4000 4MB + Alpha +D/Buffer £1279
Genlock £199

*SPECIAL £400 OFF
*H2000 Plus £1479
*H4000 Plus £1149
+ HPalPX for real time adjustment of colour, gamma, etc.

AMAZING PRICE!

PICASSO 24 BIT GRAPHICS CARD + FREE TV PAINT JUNIOR £324.99

PICCOLO 24 BIT GRAPHICS CARD
16.7 million colours, on-board blitter, 1MB exp to 2MB video RAM, fully programmable resolution, double buffering + multiple screen + AREXX. support. Supports leading graphics packages/applications. With FREE TV Paint Jnr £379.99

RAINBOW III 24 BIT GRAPHICS CARD + VIDEO CONTROLLER £1489.99
Similar to Piccolo but with 4MB video RAM, programmable resolution to 1600 x 1280, built -in video controller inc. 110MHz clock. With FREE TV Paint Jnr.

PEGGY .MPEG VIDEO CARD £479.99
Take 24 bit animations from disc or other storage devices and replay in real-time through the Amiga! Use integrated genlock to overlay Amiga graphics for sophisticated fitting and special effects, to produce stunning promotional/training videos, or games with live video footage. Near SVHS quality, 16.7M colours, MPEG tools + library functions, 25 frames/sec playback.

YC Output module for Peggy £129.99
MPeg encoder option for Peggy £349.99

OPAL VISION (for 3000/4000)
24 bit board v2+ Opal Paint, Opal Presents, Opal Harkey, Opal AnimMATE £339.99
IF YOU HAVE PURCHASED OPALVISION, YOU MAY HAVE RECEIVED VOUCHERS AGAINST THE FOLLOWING NEW PRODUCTS., WHICH WILL BE ACCEPTED BY HOBBYTE IN PART PAYMENT

Video Processor for Opal Vision WITH VOUCHERS 647.99
Video Suite for Opal Vision WITH VOUCHERS 647.99
Scan Rate Converter for OpalVision WITH VOUCHERS 647.99
Retina 24 bit graphics card + 1MB + VD Paint 329.00
Retina 24 bit graphics card + 2MB + VD Paint 395.00
Retina 24 bit graphics card + 4MB + VD Paint 489.00
V lab 24 bit real time digitiser 1200/600/500 ext ..... FREE 334.99
V lab 24 bit real time digitiser 1500/3000/4000 int ..... V lab Primagrabber with Harlequin (see above) 289.99
V Lab 4000/3000 int SVHS 334.99

EMULATION

G Gate 386sx 25MHz ..... POA
GVP 40/4 for 1500 ..... 945.99
AT Once 214.99
386/486 Bridgeboard ..... POA
Emplant Deluxe 389.90

SCANNERS & DIGITISERS

Epson GT 6500, 600dpi 24 bit A4 inc. ASDG Scan s/w + cable 689.00
Epson GT 8000, 800dpi 24 bit A4 inc. ASDG Scan s/w + cable 889.90
Power Hand Scanner, 400 dpi, 64 Greyscale, V3 Powerscan software 98.90
Power Hand Scanner 4 256 Greyscale + s/w 118.99
OCR software for Power Scanner 48.50
Power Colour Hand Scanner V4 ..... 238.49
Sharp JX 100 A6 Scanner + scanlab s/w up to 18 bit 469.99
Summa Sketch II A4 with s/w/A3 Tablet Digitiser 359.99/529.99

GENLOCKS/MODEMS

Rendale 8802 (1200 compat) 139.99
Rendale 8802 FMC 159.95
Rendale 8802 SUHS ("Fred") 249.99
Rendale 8806 ..... 469.99
Hama Genlock 292 ..... 283.90
Hama Genlock S290 ..... 689.99
GVP G-Lock 283.90
Rocgen+ 1200 compat 138.50
Rocgen Rockey 289.99
Rocgen +Rockey Bundle ..419.99
Supra 2400 Modem 78.95
Supra Fax Modem 148.90

ACCESSORIES & DISCS

A500/600/1200 printer centre..28.99
A500/1200 control centre 34.90
A600 control centre 27.90
Brickette CDTV Joystick adapt. ..39.99
10 Blank DS/DD discs in box 4.99
10 Blank DS/HD discs 6.99
A520 Modulator 29.99
Amitec Modulator 34.99
Alien/Batman/T2 Joystick 10.99
Bug Joystick 11.99
CDTV Keyboard 54.99
50 Blank DS/DD discs 17.99
50 Blank DS/HD discs 27.99
Disc Expander 34.99

EXPANSION

A500 512k Ram Exp+Clock 21.99
A500+ 1MB exp 29.99
A500+ 2MB, exp. to 8MB 149.99
A601 ..... 37.99
A600/1200 2MB exp (card) 115.99
A600/1200 4MB exp (card) 169.99
CDTV 1MB exp + Super Agnus 157.99
A500 Ram Sharer 1.3 ..... 37.95
A500 Ram Sharer 2.04 ..... 38.95
A600 Ram Sharer + 1.3 ..... 49.95
A2065 Ethernet Card 229.95
PC 1208 bare + clock 65.90
PC 1208 2MB 137.90
PC 1208 4MB 197.90
PC 1208 8MB 396.90
FPUs- SEE BELOW
MBX 1200 bare 64.90
MBX 1200 2MB 134.90
MBX 1200 4MB 194.90
MBX 1200 8MB 379.90
Amitech Hawk + clock 2MB 133.50
Amitech Hawk + clock 4MB 193.50
Amitech Hawk + clock 8MB 396.50
see below for FPU's
68882 25MHz + crystal 79.90
68882 33MHz + crystal 95.00
68882 40MHz + crystal 129.00
68882 50MHz + crystal 159.90
CBM 2.1 upgrade kit 74.99
Chip fitting and board upgrade avail., by our qualified engineers ..... POA

PRINTERS

2YR WARRANTY WITH CITIZEN

	ALONE	WITH STARTER PACK
Citizen 120+D	111.99	
Star LC 100 9 pin col	119.90	
Citizen 90 mono*	131.49	
Citizen 90 colour*	149.99	
Star LC200 col	178.49	
Star LC 24-20 II	193.99	
Star LC 24-100 24 pin	158.99	
Star LC 24-200	179.99	
Star LC 24-200 col	199.49	
Panasonic KXP 2123 col	179.49	
Epson LQ 100	179.99	
Epson LQ 570	231.99	
Epson LQ 870	469.90	
Epson LQ 1170	569.90	
Citizen ABC Mono	143.99	
Citizen ABC colour +s/feed	159.99	
Citizen S200 24*	184.99	
Citizen S200 24 col*	199.99	
Citizen S240*	224.99	
Citizen S240C col*	239.99	
Citizen S24x col*	325.90	
Star LC24 - 30 Col	194.90	
Star LC24 - 300 Col	229.90	
Citizen col Note. Printer III	269.90	

ADD £12.99

UNBELIEVABLE INKJET PRICES!!

HP Deskjet 310	196.49
HP Deskjet 310 colour	229.99
Epson Stylus 300	214.49
Epson Stylus 800	224.99
Epson Stylus 1000	409.99
Citizen Projet II	228.90
HP Deskjet S20	239.99
HP Deskjet 500col$	319.99
HP DESKJET 550C$	**419.99**
HP Deskjet 1200C	1149.99
HP Deskjet 560C	459.50
Canon BJ10SX Port	184.50
Canon BJ 200	244.99
Canon BJ 230 A3	329.99
Canon BJ 330 A3	492.99
Canon BJ 300	384.99
Canon BJC 600 Col	519.50
Canon BJC 800	1426.99
Star SJ 48	191.99
Star SJ 144	404.49
OKI OL 400e LASER	489.90
Panasonic KXP 4410	489.90
Panasonic KXP 4430	639.90
Epson EPL 5000	512.90
Epson EPL 8100 10ppm	819.90
Star LS 5 laser	569.90
HP Laserjet 4L	549.99
HP Laserjet 4 MP	1227.99
Star LS Sex 5ppm 2 bin	629.90
Sharp JX 9500 9ppm	599.50

ADD £12.99

Starter pack: 500 Sheets A4 paper, Amiga to printer lead, Universal Printer Stand & Driver *with Print Manager

PRIMERA COLOUR PRINTER

If you've admired the saturated colours of the Mitsubishi and other thermal wax printers at exhibitions, but couldn't afford the £4000+ price tag, the Fargo Primera is the printer you're looking for. Less than a third of the price of the nearest rival,
Primera offers: • Photo-quality, rich bright colours • Up to 4 times faster than ink jet
• Cost per page less than ink jet • A4, transparencies + T-shirt transfer paper printing

COMPLETE WITH AMIGA DRIVER (WINDOWS OR MAC DRIVER IF PREFERRED) AND AMIGA LEAD £789.00
PHOTO REALISTIC KIT £209.00
PHONE FOR PRINT SAMPLES

$Studio driver/Utility (WB 2 & above) highly recommended ADD £39.95

SOFTWARE

GRAPHICS/CAD

Adorage II 68.50
AmigaVision 17.90
Broadcast Titler High Res.. 138.90
NEW-Broadcast Titler AGA
Super High res 139.90
Broad T Font Enhancer ..... POA
Broad T Font Pack ..... POA
Deluxe Photolab 51.49
Frame Machine 329.90
Deluxe Photolab 51.49
imagemaster 159.99
Montage 24 AGA ..... POA
Morph+ 138.99
Pro Video Plus 137.99
Scenery Anim 4 ..... 48.90
Scroller II 59.99
TV Record 189.99
TV Show Pro 51.39
TV Text Pro 79.50
Video Studio 3 ..... 115.95
Video Director 118.90
Video Effects 3D ..... POA
Video Master 49.49
Vidi Amiga 12 V2 ..... 74.50
VIDI OFFER -
Vidi Amiga 12 with Megamix Master £97.90
Vidi 12 Real Time 154.50
Vidi 24 Real Time 224.50
Video Timelapse VTL - creates stunning timelapse sequences - flowers opening, clouds, with sophisticated light/motion etc., record trigger inc. deck controller h/ware 329.90
Software only 189.99

EDUCATIONAL

Any Fun School 3 or4 ..... 15.99
Any ADI 16.99
Merlin's Maths 16.99
Paint & Create 16.99
Spelling Fair 16.99
Any Noddy 16.99
See also software packs

UTILITIES/LANGUAGES

AMAX II Plus 249.99
Ami back + A Tools 59.99
Amos 3D 21.49
Amos the Creator 30.95
Amos Compiler 19.49
Amos Pro! 32.99
Amos Pro! Compiler 24.99
Easy Amos 22.49

Blitz Basic 2 ..... 48.90

CanDo 2.5 ..... 93.50
Cross Dos v5 ..... 29.75
CygnusEd Pro 3.5 ..... 69.75
Directory Opus 4 ..... 43.90
GB Route + ... 32.50
Gigamem 47.50
SAS/Lattice C 229.99
Quarter back V6 ..... 48.50
Quarter back Tools Deluxe 59.99
PEGGER -
Vital for graphics-users! 79.95
Fully integrated JPEG utility gives enormous hard disc space savings - 100MB of framestores will compress to under 10MB. "Snoop" gives JPEG capability to programmes that don't otherwise support JPEG, such as DPAINT IV/ AGA, so they can load + save JPEG files.
Amiga DOS 2 and 3 compatible
AREXX, 24 bit IFF, DCTV, Toaster and Horn 8 Support.
Fast, seamless background operation
True Print 24 ..... 47.90
VIDEO TAPE BACKUP UTILITY £57.50
Backup upto 120MB onto one 3 hour tape
Xcopy Pro 31.50

APPLICATION

Arena Accounts 82.50
Excellence 3 ..... 89.90
Final Copy V2 ..... 63.99
Final Writer 99.90
Hone Accounts 2 ..... 48.90
Kind Words III 17.90
Maxiplan Plus v4 ..... 17.90
Mini Office 37.49
Money Matters 46.99
Pagestream 2.22 ..... 62.90
Pagestream v3 ..... 219.90

AF GOLD WINNER

Pagesetter 3 AGA 41.90
Pen Pal 1.5 ..... 28.50
Pers Finance Man + ... 29.50
Professional Page 4.1 AGA RATED as the current top DTP package by the independant magazines, 94% AF 119.49
SPECIAL ProPage 4 & ProDraw 3 -professional Illustrator's Bath for ONLY £159.99
Proper Grammer 35.90
Protext 6 ..... 109.50
Publisher 17.90
Saxon Publisher 177.95
Superbase Personal 4 ..... 78.90
Superbase Pro 4 V1.3 ..... 214.99
Typesmith 118.90

Wordsworth AGA 44.90

Wordsworth 3 ..... 64.49
Works Platinum 38.99

MUSIC

AD 10 12 Studio 16 Sampler 349.95
Audio Engineer +2 ..... 189.49
Audio Master 4 ..... 41.49
Bars & Pipes 2 ..... 225.90
Clarity Sampler 124.99
Deluxe Music Const II 67.90
GVP DSS 8-PLUS 64.90
Megalosound sampler 23.90
Midi Interface 19.95
Miracle K'board/Tutor 277.99
Romba Megamix Mstr 27.99
(see offer with Vidi 12)
Superjam 82.90
Technosound Turbo 25.50

LEISURE TOP SELLERS

Alien Breed II AGA 22.90
AV8B Harrier Assault 27.49
Battle Chess 14.99
Blade of Destiny 24.49
Body Blows Galactic AGA 23.90
B17 Flying Fortress 22.99
Campaign 22.99
Championship Manager 16.49
Elite II 22.90
Epic *9.99
F1 Grand Prix *24.99
Gunship 2000 ..... 24.99
History Line 21.69
Indiana Jones 23.99
Lemmings 2 ..... 18.90
Micro Machines 18.90
Monkey Island II 23.99
Putty *12.99
Robocad AGA 15.69
Sensible Soccer 15.95
Streetfighter II 17.49
THUNDERBIRDS!! 12.99
Their Finest Hour 5.99
Trivial Pursuit *9.99
Wing Commander 19.49
Zool 15.99
*Price applies only with Amiga hardware purchase

CDTV/CD^{32} DISCS

SPECIAL - ANY 3* 59.90
Loads available - Phone - inc.
Arabian Nights 11.90
Battlestorm 21.90
Case/Cautious Condor 27.90
Castles 2 ..... 21.90
•Cinderella 29.90
DGeneration 21.90
Deep Core 21.90
•Fantastic Voyage 27.90
James Pond 2 ..... 23.50
Jurassic Park 27.99
•Lemmings 8.40
Lotus Turbo Trilogy 27.90
Luna'c/Overkill 21.90
NASA Heroic Age 17.40
NOW Games 1 ..... 16.49
NOW Games 2 ..... 16.49
•Pandora 2,000 Clip Art & 99 Sounds 4.79
•Scarry Poems/Ratten Kids 32.5.0
Sensible Soccer NAGA 18.90
Super Putty AGA 11.90
•Tale of Benjamin Bunny 32.50
Whales Voyage 21.90
Winter Super Sports 21.90
Zool II 21.90
• Also CDTV compatible
*up to 34.99 RRP

NO DEPOSIT CREDIT AVAILABLE (subject to status), 29.8% APR, written details on application. All major debit cards accepted, no surcharges.

NOTE SEE WARNING TOP LH PAGE

ORDERING:

TELESALES NO: 0727 856005 FAX: 0727 834944

Same day despatch for debit or credit card orders placed before 5pm subject to availability. Alternatively send cheque, postal order, bankers draft or official order (PLCs, Education and Government bodies only) to: Dept A , Hobbyte Computer Centre, 10 Market Place, St. Albans, Herts AL3 5DG. Please allow 7 working days for cheque clearance. Subject to availability, despatch is normally within 24 hours of receipt of cleared payment. Prices are correct at time of going to press, however, we are sometimes forced to change them, either up or down. Please check before ordering. Additional services and different packages may be offered in our showrooms, and prices may vary from Mail Order prices. Personal callers are asked to quote this ad to ensure Mail Order packages are offered.

DELIVERY CHARGES: UK MAINLAND (NOT HIGHLANDS)

Small consumables & software items	Despatched by post, please check charges when ordering
Other items, except lasers	Next day courier service, £10 per box
Offshore and Highlands	Please enquire

IN ADDITION WE OFFER THE FOLLOWING EXPRESS SERVICES:

Saturday deliveries	Normal rate plus £15
Am next day	Normal rate plus £8

NO DEPOSIT CREDIT FACILITIES
Credit terms at 29.8% APR (variable) can be arranged for purchases over £150, subject to status. Competitive leasing schemes are also available for businesses, including sole traders and partnerships. Just telephone for written details and application form.

• HP AUTHORISED DEALER • CITIZEN DEALER PLUS • Amiga prices, except where stated are inc. VAT. E&OE

TELE-ORDER (0727) 856005

De-archiving your CoverDisk

Workbench 2.0 and 3.0

Users of Workbench later than 1.3 can use the official Commodore installer program which we have especially adapted to de-archive the contents of the CoverDisks with the minimal amount of fuss.

The installer is simple to use; just follow the instructions and click the buttons. Make sure you boot from your CoverDisk with the disk write enabled when de-archiving Personal Fonts Maker and Epoch Master.

When installing Spooler and DTree boot from your Workbench disk or hard drive as the programs are installed onto these disks, although any auto-booting disk will do.

Workbench 1.3

Users with 1.3 machines should double click on the InstallPFM_1.3 to de-archive the Personal Fonts Maker program. We will be working to adapt the Commodore installer so that it works on 1.3 machines in the future.

Hard drive installation

Hard drive owners should simply copy the de-archived programs across but will need to make an assign for Personal Fonts Maker to work properly. Load up Ed then load the start-up-sequence file located in the S directory. Just before the LoadWB command type in:

```
Assign PFM: [pathname]
```

Save the startup-sequence by pressing Esc – x and then Return.

The Disks

A font for all occasions

Take it down to the letter with Cloanto's completely stunning Personal Fonts Maker program. Design your own character set in this fully working application

Personal Fonts Maker is a superb, fully functioning application which allows you to create your own fonts. These can be incorporated into your own page layouts, used to improve the Workbench look or downloaded into a printer for finer print quality.

After completing the de-archiving procedure, open up the Personal Fonts Maker disk icon and then click on the PFM icon which will load up the application. Ignore the Audio requester by clicking on the Proceed button.

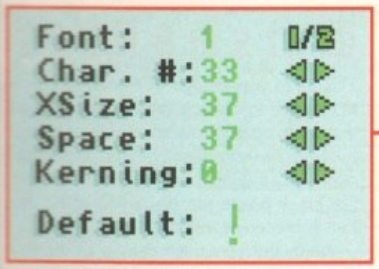
The interface may look fairly complex at first but by following this tutorial carefully you should be able to design your own fonts very quickly. The interface is split into five different sections, four of which are present on the main display at all times.

Most of the screen is taken up by the font editing grid. This is where you actually create each character. To the left are the design icons and above them the font statistics. Beside the main display there are the menu options at the top of the screen.

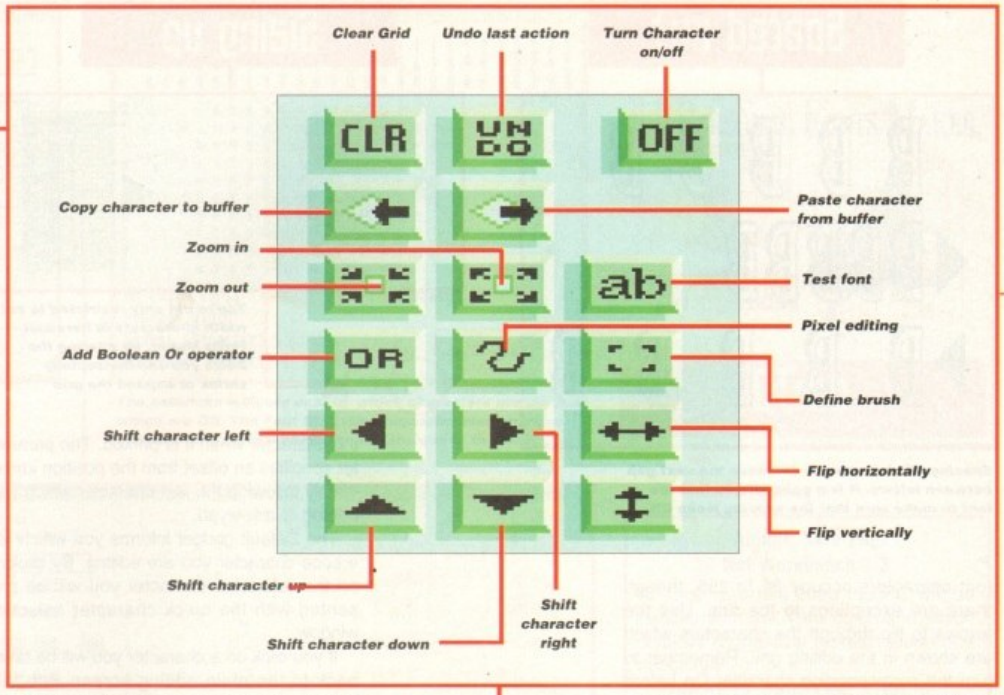
The first thing to do is to understand how the editing of characters is achieved. Characters within a font can either be on or off which is indicated by the button marked OFF. When saving PFM fonts only the characters marked ON are saved. This saves space, unlike Amiga fonts which save all the characters whether they are On or Off.

Click on the Off button so that it reads C and you will notice that the grid change colour slightly. This is just to inform that yc can now go about editing that particula character.

Move the mouse over the grid so that th pointer turns to a crosshair, click and hol the left mouse button down and move th mouse around. This will draw pixels onto th grid. Do the same but with the right mous



Every attribute associated with the character you are presently editing can be accessed from here



button held down and the pixels will be erased. This is the procedure used to actually create and edit characters.

If you make a mistake you can always click on the Undo button and if you are totally unhappy with your character design, click on the CLR button which will wipe the slate clean, so to speak.

ARROW BUTTONS

The character's position within the grid can be altered by clicking on the four arrow buttons to the bottom left. These will scroll the character in the selected direction and wrap it around should pixels bleed off any of the edges.

You can also flip the character both vertically and horizontally by clicking the buttons alongside the scroll buttons. These will flip the character from the centre axis in the grid.

Apart from the standard drawing of pixels, you can grab a defined section of the character using the brush tool. Click the brush tool and then drag a box around the area in the grid you wish to grab. Using the same technique for drawing pixels you can now draw with the brush. To get back to the basic drawing mode simply click on the draw button.

Using the Load Brush option from the Brush menu at the top of the screen you can load in pre-designed brushes from popular art packages such as Deluxe Paint. Any brush can be rotated, flipped and resized using the options in the Brush menu.

Some of you may prefer to reduce the grid's size so that you can edit the character almost at its actual size. To do this simply click on the reduce or enlarge button respectively. Copying and pasting characters is made very easy thanks to Personal Fonts Maker's user-friendly interface. To copy an icon simply click on the copy to buffer button and to paste it on the copy from buffer button.

The Or button needs a little more explanation and is used primarily with the brush, flip, scroll and copy buttons. When you Or a character with another all the pixels that are black (on) are drawn but any white pixels (off) are ignored. A prime example is to cut an area with the brush and then stamp it down elsewhere on the grid. With the Or button selected none of the white pixels will cover pixels that were previously black. The best way to see the effect is to experiment with a combination of Or and the above buttons.

WINDOW TYPING

The final button, and certainly one of the most important, is the ab button. When you click on this a window will appear at the bottom of the screen. By clicking in this window and typing you will be able to see the effect of your designs.

You can continue editing the character with the window open but if you really need to get rid off it simply click on the ab button again.

Now let's take a look at the font gadgets above the editing buttons. The first gadget is Font. When you first load up Personal Fonts Maker the program automatically loads in two fonts, provided you have enough memory.

By clicking on the Font 1/2 symbol you can alternate between the two fonts, the number of which is displayed alongside the 1/2 button.

The Char# gadget allows you to flip through all the characters in the font. Most ➤

Tools of the trade

Recording macros

Nothing can be more time-consuming when you have to add the same effect to several characters within a font. Fortunately, Personal Fonts Maker has the ability to perform macros which can be called to perform a certain task.

Draw a square on the editing grid and then press Ctrl-A. The square will be outlined with a shadow. This is called a macro – a series of commands saved as a recording and then played back. Let's create a new macro.

First clear anything you have entered into the editing grid with the CLR button. Select the Macro menu at the top of the screen and then select Start Record.

At this point a requester will appear asking you to select a macro. Click on the C: option and then type in the name of your macro in the text window of the requester – DrawSquare for example. The C indicates what letter you should press in conjunction with Ctrl (the macro hotkey) in order for the macro to run itself.

The macro requester allows you to define recorded sequences which can be played back at any time with a simple key press

You can view all the macros presently loaded by selecting Examine Macros

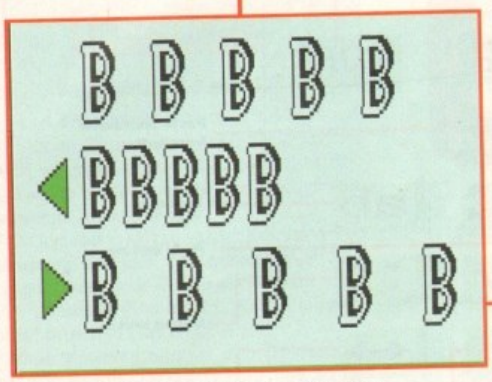
Click on the Proceed button at which point the pointer will turn into an M indicating that a macro is being recorded. Draw a square and then return to the Macro menu and select End Record.

Now CLR the grid and then press Ctrl-C. You should have a square on the editing grid – the exact square you drew when recording the macro. You can store the macro permanently by selecting Save Macro.

The Controlled Execution option in the Macro menu allows you to perform macro functions over entire fonts at a single time. Select the macro you wish to use from the requester and then type in which character range you wish to effect in the From and To boxes.

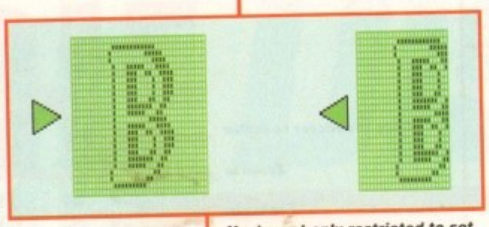
When you click on Proceed the program will set off the macro execution over the range you specified.

Spaced out



Spacing will increase or decrease the next gap between letters. It is a good idea to test the font to make sure that the spacing looks OK

Sizing up



You're not only restricted to set width characters in Personal Fonts Maker. By altering the XSize you can horizontally shrink or expand the grid

font characters occupy 32 to 255, though there are exceptions to the rule. Use the arrows to flip through the characters which are shown in the editing grid. Remember to turn the corresponding character On before you begin editing.

The horizontal size of the editing grid can be controlled using the XSize arrows – the minimum size is 1. A proportional font allows characters to be designed in different widths. The letter I for example would take less space than say the letter M. This also saves on storage.

You can alter the spacing between characters with the Space gadget. This dictates how close the following character will be to the one you are presently editing. It also informs the printer how many dots the printer head has to be moved to the right after the character data is printed.

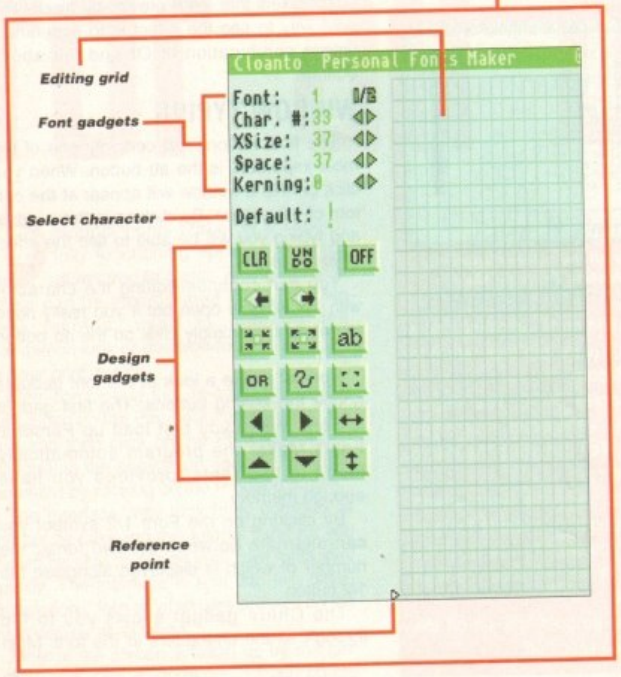
Kerning determines the starting position of the character when it is printed. The parameter specifies an offset from the position immediately following the last character which was printed or displayed.

The Default gadget informs you which reference character you are editing. By clicking on the reference character you will be presented with the quick character selection window.

If you click on a character you will be taken back to the main editing screen with that character in the editing grid. By clicking on the Mode gadget all the characters that are Off will be displayed. You can toggle them On and Off by clicking over them with the right mouse button.

When you are comfortable with the editing tools you will no doubt want to design your own font. The best step is to first design yourself an Amiga font which can be used with word processors and on the Workbench itself.

Font creation made easy



GUIDELINES

Before you start there is one more very useful editing tool you should know about that will make the job easier. Personal Fonts Maker provides four special guidelines that you can use with the editing grid. The guidelines allow you to specify vertical positions down the character as a reference aid. They help to maintain a coherent relationship from one character to another.

The guidelines should be positioned at the height of the capital line, the mean line. the baseline and the underline position. To move a guideline click on it with the mouse and drag it to its new position.

At the point when you click on the guideline a menu will appear showing each one, its colour and associated key – F1 to F4. When you are ready to release the guideline, press the appropriate F key and it will drop into position. When you move through the characters the guidelines will remain fixed in place.

To save your Amiga font you should select Export Amiga Font from the Project menu. A requester will appear asking you to type in the name of your new font. Click on Proceed to save it.

The requester looks for the FONTS directory on your Workbench disk. If you have only one floppy drive you may have to perform some disk swapping. Second drive and hard drive owners needn't worry.

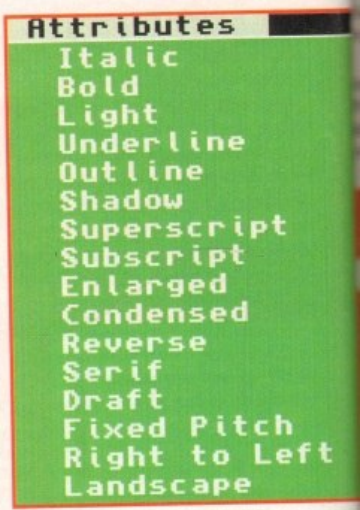
The Attributes menu allows you to assign certain text formatting commands to the fo you are currently editing. In order to invoke formatting option from the menu all yo need to do is to select it.

A tick indicates that the option has be selected. To de-select it simply select th option once more and the tick will b removed.

The Project menu features certain optio that all users of the Personal Fonts Mak should be familiar with.

The reference character set displaye alongside the Default gadget can be edite via the Edit Character Set. This option effe tively dumps the reference set into the ed ing buffer so that it can be altered in th same way you would edit any other fo The character set can be saved to repla the one that is loaded by the program.

The Printer test option allows you t select from four accompanying optio which act as a printer test so that you se your font in action. You can choose to pr out a Character or an entire Font. A sele tion of FFDL printer drivers are supplied a



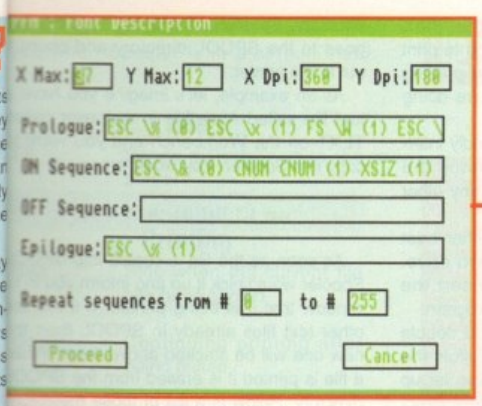
The Attributes menu allows you to toggle on or off various text formatting commands that can be associated with your character set

What's in a letter?

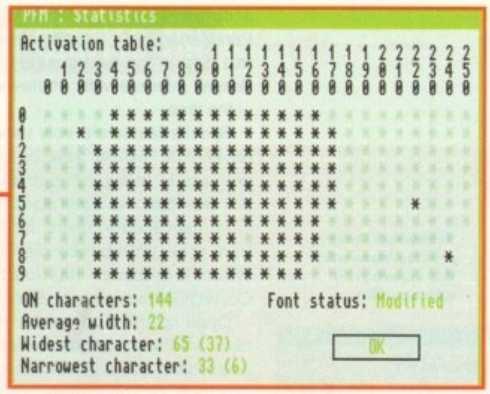
The fonts you design in Personal Font Maker are known as bitmap fonts. The are made up of pixels, the smallest imag a computer can display. The pixels ca either be on (black) or off (white) and on the black pixels are displayed when th font is printed or displayed.

When the computer comes to displa the font the black and white pixels ar converted into binary, which is how com puters operate. Originally, computer could only write fonts in set dimension but the Amiga has the ability to print font in a variety of widths.

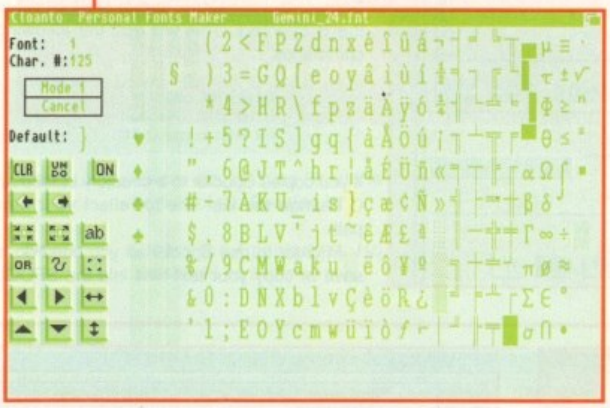
Outline fonts are made up from mathe matical points which indicate lines an curves. Therefore, when they ar enlarged or reduced they maintain the shape, unlike bitmap fonts which becom blocky and unreadable.



This screen is very important when it comes to downloading fonts to the printer. It set up the font so that it can be interpreted by your printer



The asterisks indicate exactly which characters are On and which are Off. The Font Statistics requester also provides valuable information about the dimensions of the font



You can select font characters quickly by clicking on the reference character in the Default gadget. This will bring up a display of all the characters. Simply click on the one you want

be loaded in from the Preferences menu.

Character prints the character in the editing grid three times, a space and then once again. This allows you to see exactly how it looks when surrounded by other characters. Font prints out all those characters that are switched On.

Font Statistics displays a requester containing general information on the status of the current font. At the top of the requester is a map indicating the On/Off status of each character in the font. Black asterisks are associated with On characters, light green asterisks with Off characters.

INFORMATION

At the bottom of the requester is valuable information about the font – how many characters are On, the average width, the widest character and the narrowest character. Clicking on OK removes the requester and returns control to editing.

In order to download a font you must first load a character set into Personal Fonts Maker. From the Preferences menu you should select Font Description and alter the XMax, YMax, XDpi and YDpi settings accordingly so that the printer can recognise the font format.

The XMax indicates the maximum horizontal size in pixels of your font and the YMax reflects the vertical length.

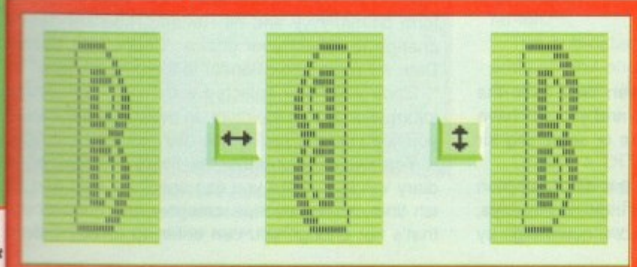
The XDpi (dots per inch) and YDpi depend upon the type of printer you are downloading the font to, and these values should be available in your printer manual or can be loaded from the supplied drivers on the disk. Below the font size and printer output settings are the printer FFDL sequences. The FFDL sequences specify which characters in the font are On, Off and how they should be interpreted by the printer.

Some example FFDL sequences are given in the PFM.man document on the Personal Fonts Manager disk. You can always test the FFDL settings by running the Printer Test options in the Project menu.

When the font and FFDL settings are correct you can then go about downloading the font. Selecting Write Font Data from the Project menu, you can either send the font directly to the printer or to a file.

If you write the font to a file you can send the data at a later date. Simply double click on the file's icon and it will automatically call the PrintRawFiles program from the PFM_tools drawer which will download the font. Don't worry about inspiration as Personal Fonts Maker includes a grand selection of PFM fonts ready for you to use.

Go flipping crazy



You can flip characters in all directions using the flip buttons. If more than one character is to be flipped it is best to create a macro to do the work

THE DISKS

DTree

Author: Sam Yee
Not Workbench 1.3

Anyone who has used the PC will be familiar with the Tree command which displays a graphical representation of a directory.

Thanks to Sam Yee, Tree is now available for the Amiga in the form of DTree. To use DTree users should either boot from their Workbench disk or hard drive. When Workbench has loaded, insert the CoverDisk containing the DTree program.

Open up the DTree drawer and double-click on the InstallDTree icon. Follow the instructions in the installer to get DTree up and running.

For ease of use, DTree should be copied to the C directory and run from the Shell using the command:

```
tree [path]
```

eg:

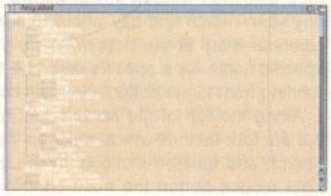
```
tree dh0:
```

There are a variety of commands that can be used with DTree in order for it to display the information you desire.

Color will display the directory tree in colour making it easier to read. Files will show all files that are present in any directories covered by the path, eg:

```
tree color files dh0:
```

There are other commands that can be used with DTree and you can find these in the accompanying document.



DTree – a bonus utility for all we Amiga owners and a smack in the face for all those PC owners

Spooler

Author: J Vande Ginste
Not Workbench 1.3

Print spoolers have always been a favourite on the Amiga but it seems that the PrintManager2.0 program given away on the January 93 issue of *AC* has been causing quite a few problems.

Fortunately, we have totally new spooler program that is far easier to use than PrintManager2.0. Spooler allows you to print text files in the background so that printing doesn't interfere with whatever you're doing at the time.

Spooler features a very user-friendly interface from which you can monitor the progress of your printing and view any other text files that have been stacked.

To use Spooler users should either boot from their Workbench disk or hard drive. When Workbench has loaded insert the CoverDisk containing the Spooler program.

Open up the Spooler drawer and double click on the InstallSpooler icon. Follow the instructions in the installer to get Spooler up and running. The installer will create a directory in RAM called Spool and assign SPOOL to it.

It will then ask you if you want to add Spooler to your User-Startup file located in the S directory. This will add the following commands:

```
makedir ram:spool
assign SPOOL: ram:spool
run >NIL: c:spooler PRT:
```

If you copied Spooler to a directory other than C change the last line to reflect your new path.

In order to use Spooler all you need do is save or copy your text files into the SPOOL directory. Spooler will pick up anything that goes to the SPOOL directory and churn it out to the printer.

As an example, let's imagine you have a text file called AboutMe in a drawer called TEXT on the Workbench and you want to copy it to Spooler. You would type:

```
copy SYS:TEXT/AboutMe to SPOOL:
```

As soon as the file is copied into SPOOL Spooler would pick it up and inform you in its window that it is being printed. If there are other text files already in SPOOL then the new one will be stacked above them. When a file is printed it is erased from the SPOOL directory. Below is a list of those messages and buttons:

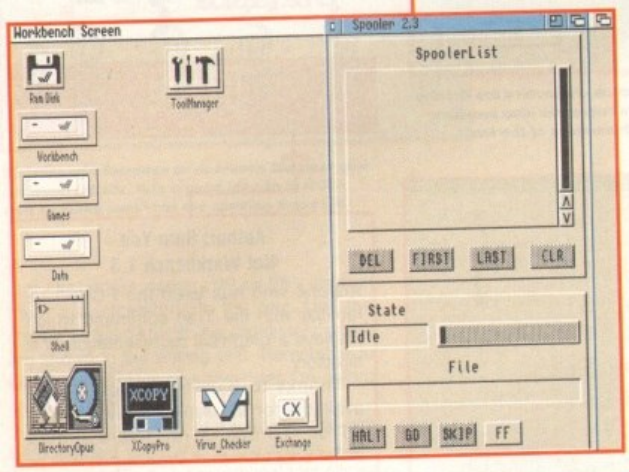
Idle .....Spooler is waiting for a file

Printing .....A file is being output to the printer. The name of the file is displayed in the File-Display window. Progress is indicated by a horizontal bar

Finishing .....This is the same as printing but Spooler will end as soon as the file is printed

Halted .....Printing has been stopped

Take away those printing blues with this superb print spooler utility



Epoch Master V1.1

Author: J Pritchard
Not Workbench 1.3

Almost all Amiga owners have a database, calendar and address book, but wouldn't it be useful if all these programs were combined into one application? Epoch Master does just that.

Written in Blitz Basic, Epoch Master features a calendar which runs from the 16th Century to the year 2999, a powerful address and phone book, and a totally programmable sub-database system.

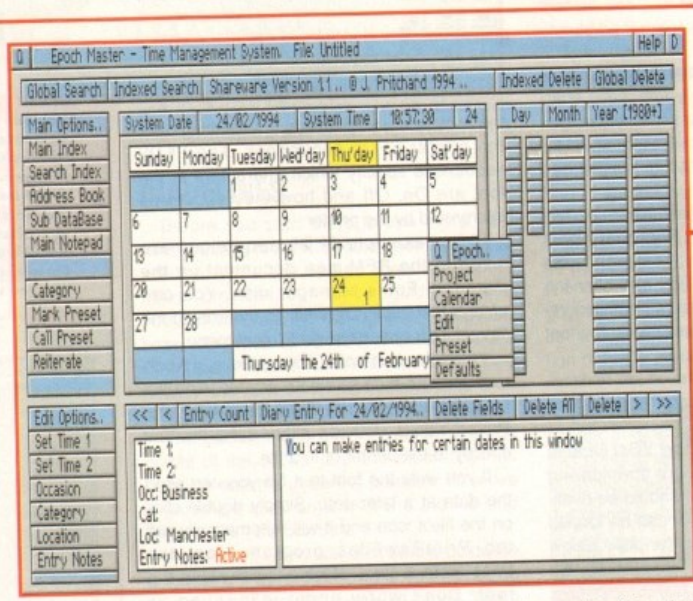
After de-archiving the program and re-booting your Amiga with the Epoch Master disk in drive DF0, simply click on the Epoch Master icon to load the application.

Don't worry too much at the seemingly complex interface because it has been designed with ease-of-use in mind and looks can be deceiving.

When you first boot up you will be presented with the calendar interface. If you have a clock on board the calendar date will be set to this time.

There are four main sections to the calendar: The main window which displays the days of the week with the corresponding date below; to the right, the date selection window which allows you to select any year, month and day within Epoch's range; the calendar diary at the bottom where you can enter specific notes for a specific day; and to the far left, running from top to bottom the main control panel.

Along the top of the screen, just below the title bar are four buttons which make up the diary's main search and delete functions. When you press the right mouse button the main control menu is displayed which allows you to control the program and create new Epoch files. Once Epoch Master has been loaded it looks in the S directory for a file called EpochCal. This is the default file and you can save your own files over this so that it is your calendar that is loaded when Epoch starts.



When Epoch Master boots up you are presented with the calendar screen. From here you can assign diary information to certain dates and save them

SEARCHING

If there is an entry within seven days from the present time, Epoch will tell you and you will have the option of jumping to that date or searching for more entries.

To select a date, simply use the date selection buttons on the right. The buttons indicate the days, months and years. You can select a new range by clicking on the Year button above the year range and typing in a new date.

Set the date manually by clicking on the button next to the System Date button. Enter the date in the form dd/mm/yyyy and hit Return. The calendar will change to reflect your choice. Clicking on System Date will return the calendar to the present date.

Once you have selected a date you can assign information to it in the diary. In order to enter data all you need to do is click in the diary window and type.

You also have a further five fields to the left of the diary window where you can specify a start and finish time, an occasion, a category and a location. If that's not enough you can enter up to 500 lines of

There are a variety of options open to you when Spooler is in a certain state. These are:

Idle

FF .....Sends a FormFeed to the printer

Printing

Halt .....Stop when the current file has been printed

Go .....Continuing printing after being halted

Skip .....Stop printing the current file and move onto the next

Halted

When Spooler is in the Halt mode you can select a new file from the SpoolerList window. Click on the file it becomes selected.

Del .....Removes the selected file from the SpoolerList and deletes it from SPOOL

First .....Places the selected file at the top of the SpoolerList

Last .....Places the selected file at the bottom of the SpoolerList

Clr .....Clears the SpoolerList. No file should be selected

Design Works fix

It appears that there were some problems when printing from Design Works on the January issue of *Amiga Computing*. Fortunately, we have discovered what was wrong and have come up with a solution.

The first thing you should do is boot from your Workbench disk or hard drive and open the Shell (CLI). Type in the following, swapping between the Workbench disk and Design Works disk when necessary;

```
copy devs:printer.device to designworks:devs
copy devs:parallel.device to designworks:devs
```

After booting your Amiga with the Design Works disk click in the Shell window and type in the following:

```
assign PRINTERS: devs:printers
```

You can then load up the program and print without any problems.

THE DISKS

Faulty CoverDisk

If you subscribe to Amiga Computing and your disk does not work, please return it to:

Amiga CoverDisk
Europress Direct
FREEPOST
Ellesmere Port L65 3ED

If you bought your copy from a newsgent and find that your CoverDisk is faulty, please return it to:

PC Wise
Dowlais Top Business Park,
Dowlais Merthyr
CF48 2YY

text in the Entry Notes.

You can search through your calendar using the VCR-style control buttons below the main calendar display. From here you can also delete entries for specific fields within each date.

To save, load or create a new calendar you need to press the right mouse button to bring up the main options menu and select Project. You can quit out of any menus by selecting the Q button in the top-left corner.

To enter the address and phone book section simply click on the Address Book button to the far left of the calendar screen. You will be presented with the main address and phone book window with the current page number and the total number of pages used at the top of the screen.

The first column in the main display contains the field selectors, the second column the field names and next to these the actual field data windows.

On the right is the General Information window which allows you enter additional information about the present page. Below the main display are a row of buttons which make up the search facilities.

To change the title of a field, click it and type the new name in the requester. Enter data by clicking in the data window and typing in the appropriate information. The same procedure is true for the General Information window.

As with the calendar, the right mouse button brings up the main menu. From here you can load, save or create a new address and phone-book file and perform various search functions. The first column of buttons in the main display are used for cross referencing searches.

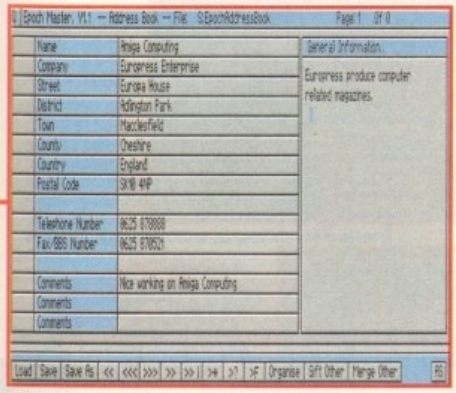
To access the sub-database system you can either select New Sections from the main menu in the address and phone book section or quit back to the calendar and select it from the button on the far-left.

The sub-database system is very similar to the address and phone book in many respects and is used in much the same way. The major difference is that it allows you to assign a DOS command to each page.

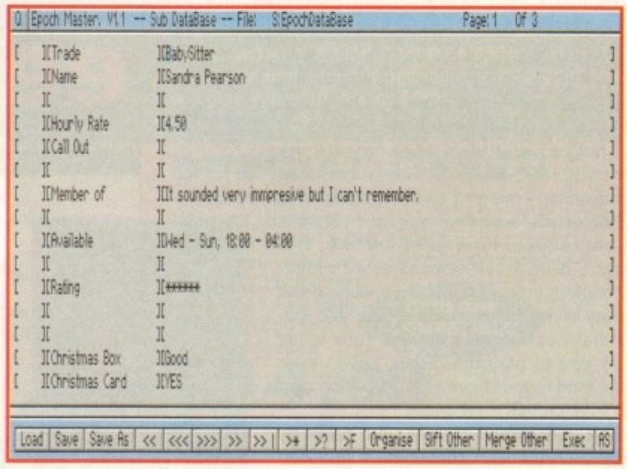
To add a DOS command, bring up the main menu by clicking the right mouse button. Select Edit MK II and then Record. Type in the DOS command in the requester and then press return. To execute the DOS command simply click on the Exec button at the far-right of the row of buttons at the bottom of the screen. When the DOS command requester appears just hit return. Provided the command is legal it will be executed.

The search and editing commands used in the sub-database system are identical to those used in the address and phonebook. If you are impressed with Epoch Master, and no doubt you will be, you could always register with the author for just £10 for which you will receive an updated version packed with enhancements and additional functions and facilities.

Read the documentation for more information on how to register.



The address and phone book manager is simple to use and very powerful indeed. Now you need never scribble numbers down on paper again



The sub-database system is very similar to the address and phone book manager but offers more powerful database-specific functions

A hero for the day

Now's your chance to prove yourself in this exclusive demo of Gremlin Graphics' HeroQuest sequel - The Legacy of Sorasil!

The Legacy of Sorasil is a role-playing adventure game in which you take control of a group of hardened warriors. Made up of barbarians, wizards and mages, your team must traverse the land of Sorasil, defeating enemy creatures and eventually bringing peace to the land.

This demo version of the game contains an entire level for you to explore. But beware, danger lurks around every corner! On booting your CoverDisk containing the Legacy of Sorasil you will be presented with the main option screen. The four icons allow you to play the demo, select your team, modify your team's statistics and load and save games in progress.

First you should choose your team by clicking on the icon containing a question mark at which point you will be taken to the character selection screen. You can choose up to four characters although you can play with less if you prefer.

CHOICES

To select a character click on the arrows to flip through the available choices. Each character will appear in the appropriate window. Try and create a varied team made up of fighters and magicians. When you have made your selection click on the down arrow.

From the main options screen click on the icon containing the scales so that you can edit your character's statistics. The character modification screen contains a representation of the character currently being modified, his or her stats represented in bar form and to the left the point allocation candle.

From left to right the bar statistics represent body, combat, perception, strength and mind. By clicking on the icons below each bar you will be able to increase the selected stat by one. You only have five points to allocate represented by the dwindling candle.

You can select other characters by clicking on the left and right arrows. Click on the down arrow to finish. Once you are happy with your team, click on the door icon from the main options screen in order to enter the game.

Before you can control your team you must give them a destination on the map of Sorasil. Your team is indicated by a flag and available locations by a flashing cursor. Click on the cursor and the team will travel to it.

As soon as they have reached their destination you will told of your task and then left to fend for yourself. The playing screen contains everything you will need to play the demo.

To the top-left is the character presently under your control, at the bottom is the option and movement icons and to the top-right is the character's health and magic points.

You can move a character around the play area by clicking in the destination or selecting the appropriate arrow from the movement compass at the bottom of the screen. Movement takes only one point.

Combat is decided in two stages; attack and defence. To engage an enemy in combat you must stand on an adjacent square, click on the sword icon and then on the character you wish to attack. The computer will resolve the combat based on your statistics.

All the characters can use magic potions and a selected few can use spells. To cast a spell or use a potion click on the magic icon which will take you to the magic inventory screen.

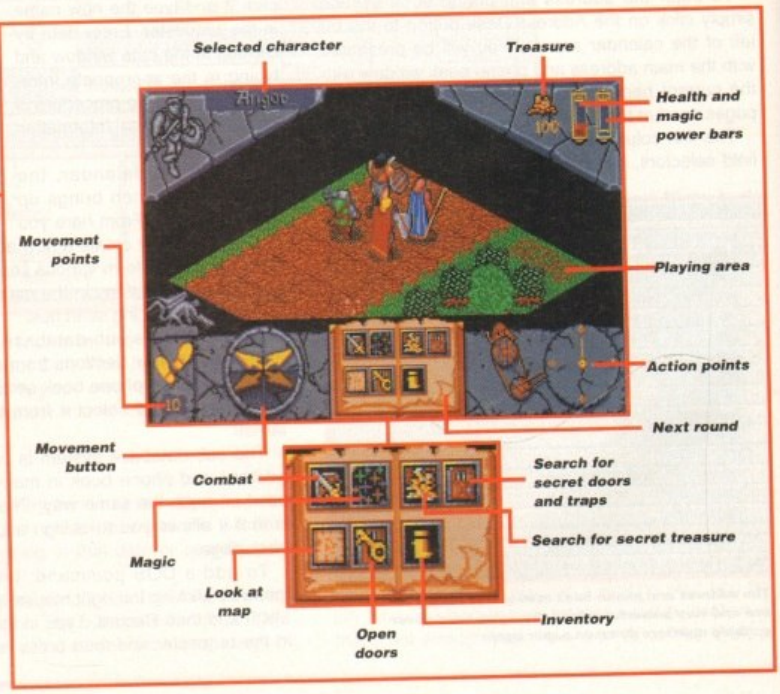
Pick up a spell or potion, at which point the cursor turns into a pentacle, and then click on the exit arrow. You can then click on the enemy character you wish to cast the spell on.

To open doors and look for treasure and traps simply click on the appropriate icon. You will told if you have found treasure or traps and they will be revealed to your team.

Once a character has used all his or her action points click on the page corner of the icon book at the bottom of the screen in order to start a new round with a new character.

If a character is killed you will have the option of sharing out their equipment to the other characters in the party.

Each character in your team can allocate five extra points to their statistics. The candle indicates how many points remain to be spent



THE DISKS

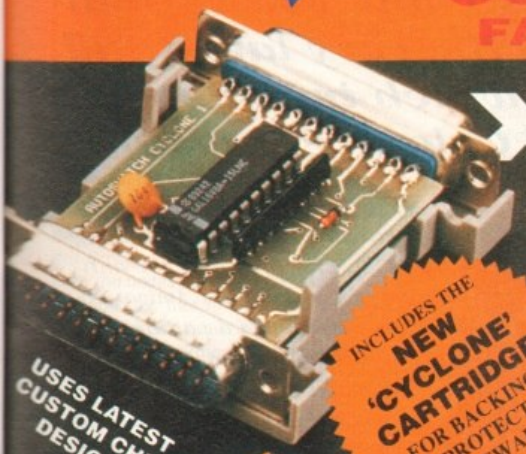
THE MICRO ADVENTURES OF...

SAM IGA

"...BY THE TIME I REACHED THE SCENE, THE DISCS HAD BEEN 'RUBBED OUT'... THERE WAS ONLY ONE THING TO DO. CALL 'SIREN SOFTWARE' FOR EXTRA BACKUP!"

TELEPHONE 061-724 7572

FAX 061-724 4893



USES LATEST CUSTOM CHIP DESIGN

X BACKUP PRO

INCLUDES THE NEW 'CYCLONE' CARTRIDGE FOR BACKING UP PROTECTED SOFTWARE

X-Backup Pro is the most powerful disc backup utility available for the Amiga, BUT DON'T TAKE OUR WORD FOR IT... *CU Amiga Magazine, July 1993*

"IT'S UNBEATABLE."

'a veritable bargain at just £39.99'
Amiga Computing, September 1993

'fast, flexible and reliable'
Amiga Computing, September 1993

£39.99

+ £1 postage & packing

THIS PRODUCT MUST NOT BE USED TO INFRINGE COPYRIGHT.

Unlike other disc backup utilities, X-BACKUP PRO is totally automatic and extremely simple to use. It is fully compatible with ALL AMIGA computers.

- Will backup virtually any disc onto another disc.
- Full hard disc backup.
- File management facility.
- Optimise, formats, repairs, verifies.
- Includes the 'AUTOSWITCH' CYCLONE cartridge. Simply plugs into the external disc drive socket at the rear of the Amiga, and plug your external disc drive into the back of the CYCLONE cartridge for unbeatable disc backup power. An external disc drive is required for use with the CYCLONE cartridge. These are available from us priced £54.99.

FULL MONEY BACK GUARANTEE.
If you can find a more powerful disc backup utility, we will give you your money back.

Verdict 85%

A1200 1200 4mb memory expansion with clock
New state of the art design.
32 bit wide auto configuring Fastram.
Zero wait state allows the A1200 to run at full speed.
Increase the speed of the computer by 219%
Battery backed clock keeps the correct time and date even when the A1200 is switched off. Simple trapdoor installation.

£179.99

SPECIAL OFFER

Deluxe disc drives
Whisper quiet. Slimline design. Suits any Amiga. Cooling vents. Sleek, high quality metal casing. Quality Sony/Citizen drive mechanism. On/Off switch and throughport at the rear of the drive. Full 880K capacity. Long reach connection cable.

CYCLONE COMPATIBLE

£54.99

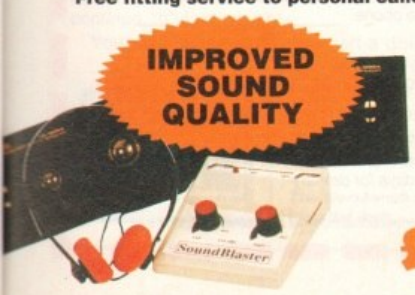
HARD DISC DRIVES

40mb	**£124.99**	170mb	**£259.99**
60mb	**£144.99**	210mb	**£339.99**
85mb	**£174.99**	256mb	**£379.99**
120mb	**£214.99**		

Add £289.99 for A1200 fitted with above drives.
Our 2.5" hard drives for the Amiga A1200/A600 offer speedy access times and come complete with fitting cable, screws and full instructions. They are pre-formatted and have workbench already installed for immediate use. Fully guaranteed for 12 months.
Free fitting service to personal callers

SUPERB VALUE FOR MONEY

Order **NOW** for immediate despatch
Tel. 061 724 7572 Fax 061 724 4893
Telesales open 9am – 6pm Monday-Friday
Access/Visa accepted
Send a cheque/Postal order or credit card details to:-
Siren Software, Wilton House, Bury Rd, Radcliffe, Manchester M26 9UR England
Government, Education and PLC orders welcome.
All prices include VAT at the current rate. Postage and packing will be charged at £3.50 per order (U.K.), £7.50 Europe, £12.50 rest of world.
Please note that 5 working days must be allowed for cheque clearance. Immediate clearance on Building society cheque or Bank Draft.



IMPROVED SOUND QUALITY

Soundblaster
The SOUNDBLASTER is a 10 watt stereo amplifier that comes complete with high quality 3 way speakers, power supply and FREE STEREO HEADPHONES!
The SOUNDBLASTER adds a new dimension to games playing, imagine stunning stereo sound effects, crystal clear samples and terrific stereo tunes. The SOUNDBLASTER also boosts games playability!
The speakers are powerful 50 watt 3 way units featuring a 3" woofer, 2" honker and a 1" tweeter to provide a powerful crisp sound.

£44.99

SIREN SOFTWARE

Wilton House, Bury Rd, Radcliffe, Manchester M26 9UR England

WE'VE GOT WHAT YOU NEED

Fantastic fonts!

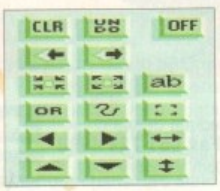
Personal Fonts Maker Only £39.95

You've got the earlier version of Personal Fonts Maker software on this issue's CoverDisk, so now you should upgrade to the very latest full package which includes the manual and Colour Extensions

The Personal Fonts Maker is a powerful tool for designing and processing fonts. Amiga fonts and fonts created with the Personal Fonts Maker can be transferred to the printer memory and printed at maximum quality and speed.

This great program can output fonts in formats which can be read by other Amiga programs, by other computers and also by a vast range of differing printers (even laser printers). It can handle IFF graphics, it is possible, for example, to work on typographical fonts input from a scanning device.

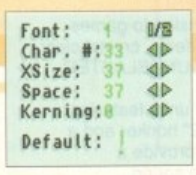
Repetitive transformations on characters or entire fonts can be recorded, stored and executed as macros. A special programming language can be used to define the format in which fonts are to be saved or sent to a printer.



The Personal Fonts Maker package includes a multitude of original fonts and support tools like the Printer Driver Modifier, which allows the user to personalise printer drivers.

It's both easy and fun to work with, thanks to the elegant and intuitive user interface. The manual is full of examples and introductory sections for novice users, and comes complete with technical information for Amiga experts.

Personal Fonts Maker works in black and white. The Colour Extensions disk adds powerful colour font processing capabilities to the basic package. Most of Personal Paint's editing tools have been incorporated into the package. For the first time, it is possible to process fonts in up to 256 colours with no size limit. Among others, special functions for anti-aliasing (even using an Amiga vector font as a point of departure) and right-to-left fonts are provided.



This makes it an ideal companion to video applications, and a must in the titling environment.

So, you have two products, Personal Fonts Maker and Colour Extensions.

(1 Mb RAM, 1 disk drive required; 1 Mb of Chip RAM recommended.)

Send your order to Amiga Computing Personal Fonts Maker Offer, Europress Direct, PO Box 2, Ellesmere Port, South Wirral L65 3EA. Allow 28 days for delivery.

Personal Fonts Maker Order form

Please send me the

☐ Personal Fonts Maker upgrade at £39.95 including postage and packing (UK)

● Overseas readers need to pay an extra £2 towards postage

Please deliver my goods to:

Name _____

Address _____

_____

Postcode _____ Daytime phone _____

I wish to pay by:

☐ Cheque/postal order payable to Euro press Enterprise Ltd

☐ Credit card

Card No. ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐

Expiry Date ☐☐/☐☐ Allow 28 days for delivery

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

De-archiving applications

Workbench 2.0 and above

The de-archiving procedure has been much improved and now combines the power of the official Commodore installer program with that of Workbenches 2.0 and 3.0.

The installer program is designed to be powerful yet simple for the beginner and features a user-friendly interface allowing you to de-archive programs and install utilities with a minimum amount of fuss.

Always boot from your CoverDisk when de-archiving applications and make sure your disk is write-enabled (not write-protected)!

The installer programs can be located via the Install icon with the appropriate name, eg:

```
InstallPFM
```

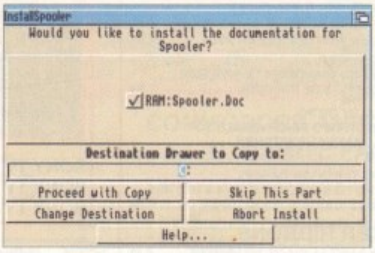
To run, simply double-click on the icon which will load up the installer program.

Using the installer

Ignore the buttons that appear when the installer program boots up and simply click on the Proceed button. The program will then copy the necessary files to RAM.

Once this has finished the installer will inform you that it is about to format a disk in DF0. Click on Proceed at which point you will be told to insert a blank disk ready for formatting.

Once you have clicked on Proceed, the installer will indicate that it is formatting the disk in DF0. When this has finished, click on Proceed again to start the de-archiving procedure.

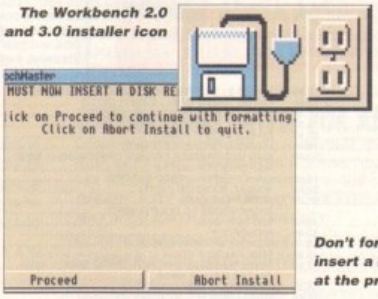


You can easily install documents and create new drawer thanks to installer's user-friendly interface

When the application has been de-archived you will be told where the de-archived files are. Click once again on Proceed to finish.

If at any time you are unsure as to whether you want to continue installing you can click on the Abort Install button.

Occasionally, utilities may need to add instructions to your User-Startup file located in the S directory so that they will function correctly. If you want to add the instructions, click on Proceed when prompted.



The Workbench 2.0 and 3.0 installer icon

Don't forget to insert a blank disk at the prompt

Don't worry about the installer options. Simply click on the Proceed button

getting started

The Amiga Computing CoverDisk is designed to be as simple to use as possible. Follow these instructions and you'll be up and running in no time!

It is vitally important that the disk you boot your Amiga from is write-enabled (not write-protected) when using the CoverDisks.

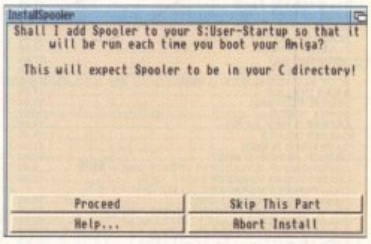
This is due to a bug with the Format command and not an error on the part of *Amiga Computing*.

Installing utilities

The procedure for installing utilities is much the same as installing applications except that you can boot from your hard drive or Workbench disk. As utilities don't need to be de-archived, you are asked to specify a directory on your hard drive or Workbench disk where you would like to install them.

If you don't want to install to the default directory you can change it by clicking on Change Destination. The Show Drives button will allow you to select a new device and directory. You can create a new drawer for your utility to go in by clicking on the Make New Drawer button and typing in the name.

At times you may be asked if you want to install a utility's documentation. A tick box indicates that the documentation is selected for inclusion but you can click on the box to ignore it or simply click on the Skip This Part button.



Adding commands to your User-Startup can be achieved with the press of a button

De-archiving applications - Workbench 1.3

Make sure you boot from your CoverDisk and that it is write-enabled (not write-protected)! The installer programs for Workbench 1.3 users can be located via the icons named:

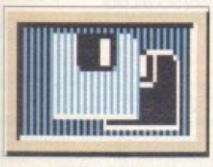
```
Install[program name]_1.3
```

eg:

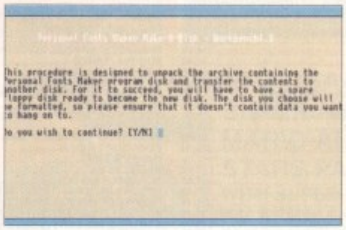
```
InstallPFM_1.3
```

When you load up the 1.3 installer program you will asked if you want to continue. Answer "y" if you want to continue, "n" if you don't.

You will then be asked to insert a disk to be formatted into DF0 and press Return. Once this disk has been formatted successfully the application will be de-archived to the disk.



The Workbench 1.3 installer icon



Answer "y" to continue, insert a blank disk and then sit back and wait

Installing WB 1.3 utilities

Boot your machine with any auto-booting disk (such as your hard drive or Workbench disk) and then insert the CoverDisk.

Utilities can be installed by clicking on their Install icon but you cannot specify their location and any additions to the Startup-Sequence must be done manually.

When installed, the utilities are copied to a drawer called ACUtils on the disk you booted from. If you are installing utilities to your Workbench disk, make sure that you have sufficient space.

PRINTERS FOR AMIGA & ST

NEW LOWER PRICE

STAR BUY

PANASONIC KXP2123 COLOUR PRINTER

24 PIN, 80 COLUMN, 192 CPS/64LQ, 7 FONTS (1 SCALABLE), EXTREMELY QUIET 43.5 DBA NOISE LEVEL, FREE PRINTER LEAD. 1 YEAR WARRANTY. *FREE WORDWORTH V.2 (AGA) WORD PROCESSOR FOR AMIGA ONLY*

(WHILE STOCKS LAST) 189.99

CANON BJ10 SX BUBBLE JET PRINTER

64 NOZZLE, 80 COLUMN, 110LQ CPS 2LQ/3 DRAFT FONT, 1 YEAR WARRANTY, FREE PRINTER LEAD. A SMALL, PORTABLE PRINTER, VERY QUIET IN OPERATION YET GIVING OUTSTANDING PRINT QUALITY.

.....215.99

NEW LOWER PRICE

CITIZEN SWIFT 90C COLOUR PRINTER

9 PIN, 80 COLUMN, 240CPS/54NLQ, 6NLQ FONTS, 2 YEAR WARRANTY, FREE PRINTER LEAD. A 9 PIN PRINTER WITH COLOUR FACILITY AND FULL PAPER HANDLING FUNCTIONS.

.....154.99

NEW LOWER PRICE

CITIZEN SWIFT 200C PRINTER + COLOUR KIT

24 PIN, 80 COLUMN, 216CPS/72LQ 6 LQ/1 DRAFT FONT, AUTO SET FACILITY, INPUT DATA BUFFER, AUTO PAPER LOADING, ENVELOPE PRINTING, 2 YEAR WARRANTY. FREE PRINTER LEAD. 189.99

CITIZEN 240C PRINTER + COLOUR KIT

24 PIN, 80 COLUMN, 240CPS/80LQ, 9LQ/1 DRAFT FONT, 2 YEAR WARRANTY, FREE PRINTER LEAD. ADVANCED VERSION OF 24E WITH AUTOSET FEATURE AND LCD CONTROL PANEL

.....229.99

LEADS & ACCESSORIES

ACCESSORIES

CANON AUTO CUT SHEET FEEDER FOR BJ-10EX OR BJ-10SX (50 SHEET CAPACITY) PRINTER. ALLOWS AUTOMATIC FEEDING OF 50 SHEETS OF PAPER INTO CANON BJ10-EX AND BJ10SX. 54.99

CITIZEN PRINTER DRIVER KIT FOR AMIGA. SUITS ALL WORKBENCH VERSIONS FROM 1.3 TO 3.0 ENHANCES PRINT QUALITY FROM CITIZEN SWIFT PRINTERS. GIVES OUTSTANDING RESULTS 12.99

DUST COVER FOR 80 COLUMN PRINTER (CLEAR PVC) 4.99

PRINTER STAND FOR ANY PRINTER. ALLOWS PAPER TO BE STORED UNDERNEATH PRINTER FOR CLEAN AND TIDY OPERATION OF PRINTER. 7.99

SWITCHER BOX FOR AMIGA, ST OR PC. CONNECTS TWO PRINTERS OR TWO PERIPHERALS TO PARALLEL PRINTER PORT. MANUAL SWITCHER. REQUIRES SWITCHER LEAD 18.99

SWITCHER LEAD (STRAIGHT THROUGH CABLE). CONNECTS AMIGA, ST OR PC TO SWITCHER BOX. 1.8 METRES PARALLEL (MALE TO MALE 25 WAY D CONNECTORS) 9.99

PRINTER RIBBONS

RIBBON (BLACK) FOR CITIZEN SWIFT 24, 224 OR 240 PRINTER 6.99
RIBBON (BLACK) FOR CITIZEN SWIFT 9, 90C OR 120D+ PRINTER 5.99
RIBBON (COLOUR) FOR CITIZEN SWIFT 9, 90C, 24, 200, 224 OR 240C PRINTER 14.99
RIBBON (BLACK) FOR PANASONIC KXP2123, KXP2180 AND KXP2124 PRINTER 10.99
RIBBON (COLOUR) FOR PANASONIC KXP2123, KXP2180 AND KXP2124 PRINTER 16.99
INK CARTRIDGE (BLACK) FOR CANON BJ-10SX/EX PRINTER 19.99

MONITOR / SCART LEADS

MONITOR LEAD - AMIGA CD32 TO PHILIPS CM8833 MK2 OR CBM 1084S MONITOR 9.99
MONITOR LEAD - AMIGA TO PHILIPS CM8833 MK2 OR CBM 1084S MONITOR 9.99
MONITOR LEAD - MEGADRIVE 2 TO PHILIPS CM8833 MK2 OR CBM 1084S MONITOR 12.99
MONITOR LEAD - MEGADRIVE1 TO PHILIPS CM8833 MK2 OR CBM 1084S MONITOR 9.99
MONITOR LEAD - SUPER NES TO PHILIPS CM8833 MK2 OR CBM 1084S MONITOR 12.99
PRINTER LEAD (PARALLEL) 1.5 METRES FOR AMIGA, ST OR PC 7.99
PRINTER LEAD (PARALLEL) 5 METRES FOR AMIGA, ST OR PC 10.99
SCART LEAD - AMIGA TO PHILIPS TV WITH SCART INPUT 9.99
SCART LEAD - AMIGA TO SONY TV WITH SCART INPUT 9.99
SCART LEAD - AMIGA TO TV WITH SCART INPUT 9.99
SCART LEAD - MEGADRIVE 1 TO TV WITH SCART INPUT 9.99
SCART LEAD - AMIGA CD32 TO TV WITH SCART INPUT. REQUIRES TV WITH MANUAL SWITCHING SCART CHANNEL 9.99
SCART LEAD - MEGADRIVE 2 TO TV WITH SCART INPUT 9.99
SCART LEAD - SUPER NES TO TV WITH SCART INPUT 9.99

FOR A *FREE* 16 PAGE COLOUR CATALOGUE CALL 0279 600204

SCART TELEVISION /MONITOR

SONY KVM1400 14" FST COLOUR SCART TELEVISION/ MONITOR AND REMOTE CONTROL.

60 CHANNEL TUNING, REAR SCART INPUT, HEADPHONE SOCKET, TWO POSITION TILT, BLACK TRINITRON SCREEN, LOOP AERIAL.

FREE SCART LEAD

(STATE AMIGA, ST, MEGADRIVE, CD32 OR SNES).

SONY TV (GREY) 194.99
SONY TV (WHITE) 194.99
SONY TV + FASTEXT 249.99

BEST BUY

AMIGA & ST JOYSTICKS

ALFA MEGAMOUSE 2 FOR AMIGA OR ST. 260 DPI, HIGH QUALITY MOUSE FOR A BUDGET PRICE 11.99

QUICKJOY JET FIGHTER JOYSTICK FOR AMIGA/ST. MICROSWITCHED WITH AUTOFIRE 11.99

CHEETAH BUG JOYSTICK FOR AMIGA/ST. MICROSWITCHED WITH AUTOFIRE 13.99

QUICKSHOT 128F MAVERICK 1 JOYSTICK FOR AMIGA/ST. AUTOFIRE 11.99

COMPETITION PRO EXTRA JOYSTICK FOR AMIGA/ST. CLEAR BASE, MICRO-SWITCHED WITH AUTOFIRE 11.99

SCORPION PLUS JOYSTICK FOR AMIGA/ST. ARCADE STYLE WITH TURBO FIRE. 9.99

FREEWHEEL STEERING WHEEL (DIGITAL) FOR AMIGA (WORKS AS A JOYSTICK OR WITH FOOTPEDAL) SUITS MOST DRIVING GAMES 25.99

SUPER PRO ZIP STICK JOYSTICK FOR AMIGA/ST. MICROSWITCHED WITH AUTOFIRE 11.99

QUICKJOY FOOT PEDAL FOR AMIGA OR ST. TRANSFERS ANY JOYSTICK FUNCTIONS TO FOOT PEDALS. IDEAL FOR FLIGHT AND CAR SIM'S. COMPATIBLE WITH MOST AMIGA AND ST GAMES AND CAN WORK IN CONJUNCTION WITH JOYSTICK OR STEERING WHEEL. 18.99

SWIFT TP200 JOYPAD FOR AMIGA/ST. TURBO FIRE AND AUTOFIRE 9.99

AMIGA A1200 GAMES

ALFRED CHICKEN 17.99
ALIEN BREED 2 .....18.99
BODY BLOWS 19.49
BODY BLOWS GALACTIC 18.99
BURNING RUBBER 18.49
CAPTIVE 2 - LIBERATION • 20.99
CHAOS ENGINE 18.49
CIVILISATION 18.99
DENNIS 19.49
GUNSHIP 2000 • 20.49
ISHAR 2 - LEGIONS OF CHAOS 18.99
JAMES POND 3 - OPERATION STARFISH • 19.99
JURASSIC PARK 19.49
KINGS QUEST 6 .....22.99
MAN UTD PREMIER LEAGUE CHAMPIONS 18.99
MR NUTZ 19.49
NIGEL MANSELL'S WORLD CHAMPIONSHIP 18.49
OUT TO LUNCH • 18.49
RISE OF THE ROBOTS 25.99
ROBOCOD (AEG) 19.49
RYDER CUP 18.49
SABRE TEAM • 18.99
SIM LIFE 22.99
SIMON THE SORCERER 24.49
SOCCER KID 19.49
STAR TREK - 25TH ANNIVERSARY (HARD DRIVE ONLY) 22.49
SUPER STARDUST 16.99
ZOOL 18.49

AMIGA GAMES

A-TRAIN (1 MEG) 13.99
A320 AIR-BUS (1 MEG) 18.99
A320 AIRBUS (USA VERSION) (1 MEG) 22.49
A320 APPROACH TRAINER (1 MEG) 16.99
ADDAMS FAMILY (1 MEG) 9.99
AIR FORCE COMMANDER (1 MEG) 18.49
ALFRED CHICKEN (1 MEG) 18.49
ALIEN 3 .....18.99
ALIEN BREED (SPECIAL EDITION) (1 MEG) 9.49
ALIEN BREED 2 (1 MEG) 17.49
AMBERSTAR 17.49
ANOTHER WORLD 11.99
APOCALYPSE (1 MEG) 20.49
ARABIAN NIGHTS 9.49
ARCADE POOL (1 MEG) 9.99
ARCHER MACLEAN'S POOL 13.49
ASSASSIN REMIX 9.99
B17 FLYING FORTRESS (1 MEG) 22.99
BATTLE ISLE 93 .....17.49
BATTLECHESS 2 .....17.49
BATTLES OF TIME (PERFECT GENERAL, BATTLE ISLE, MEGA LO MANIA, FIRST SAMURAI) (1 MEG) • 21.49
BENEATH THE STEEL SKY (1 MEG) 23.49
BENEFACTOR (1 MEG) 20.49
BILL'S TOMATO GAME 17.49
BIRDS OF PREY (1 MEG) (NO12) 11.99
BLACK CRYPT (1 MEG) 11.49
BLADE OF DESTINY (1 MEG) 25.49
BLASTAR (1 MEG) 14.99
BOB'S BAD DAY 17.99
BODY BLOWS (1 MEG) 12.49
BODY BLOWS GALACTIC (1 MEG) 17.49
BRIAN THE LION 17.99
BRUTAL FOOTBALL • 13.99
BUBBA 'N' STIX 16.99
CAESAR (1 MEG) (NO12) 18.49
CAESER DELUXE 18.49
CAMPAIGN 2 (1 MEG) 22.99
CANNON FODDER (1 MEG) 20.49
CHAMPIONSHIP MANAGER 93 UPDATE DISK (1 MEG) 9.49
CHAMPIONSHIP MANAGER 93/94 (1 MEG) 12.99
CHAMPIONSHIP MANAGER COLLECTION (93/94 + UPDATE DISK) (1 MEG) 19.99
CHAMPIONSHIP MANAGER ITALIA 93/94 (1 MEG) 17.49
CHAOS ENGINE 13.99
CIVILISATION (1 MEG) 23.49
COOL SPOT 20.49
CORPORATION 8.99
CRUISE FOR A CORPSE 11.99
CRYSTAL KINGDOM DIZZY 9.49
CURSE OF ENCHANTIA (1 MEG) 11.99
DENNIS 18.49
DESERT STRIKE (1 MEG) 19.49
DETROIT (1 MEG) 21.49
DISPOSABLE HERO 16.99
DOGFIGHT (1 MEG) 22.99
DONK (1 MEG) 18.49
DRACULA (1 MEG) 20.49
DREAMLANDS (TRANSARTICA, STORM MASTER, ISHAR) (1 MEG) 18.99
DREAMWEB (1 MEG) 22.99
DUNE 2 - BATTLE FOR ARRAKIS (1 MEG) 20.49
DUNGEON MASTER & CHAOS STRIKES BACK (1 MEG) 20.49
DYNA BLASTERS (NO12) 20.49
ELITE 9.49
ELITE 2 (FRONTIER) (1 MEG) 19.99
EUROPEAN CHAMPIONS (1 MEG) 17.99
EYE OF THE BEHOLDER (SSI) (1 MEG)12.49
EYE OF THE BEHOLDER 2 (1 MEG) 24.49
F1 (DOMARK) (1 MEG) 17.99
F117A STEALTH FIGHTER 2.0 (1 MEG) 22.99
F15 STRIKE EAGLE 2 (1 MEG) 12.49
F17 CHALLENGE 10.49
F29 RETALIATOR (1 MEG) 10.49
FABLES & FIENDS - LEGEND OF KYRANDIA (NO12) (1 MEG) 23.99
FACE OFF ICE HOCKEY (NO12) 9.49
FANTASTIC WORLDS (REALMS, PIRATES, MEGA LO MANIA, POPULOUS, WONDERLAND) (1 MEG) (NO12) 23.49
FIRE & ICE 17.99
FIRST DIVISION MANAGER 7.99
FIRST SAMURAI + MEGA LO MANIA (NO12) 13.99
FLAMES OF FREEDOM (MIDWINTER 2) 10.99
FLASHBACK (1 MEG) 20.99
FLY HARDER • 9.49
FORMULA 1 GRAND PRIX 22.99
G2 (1 MEG) 17.99
GENESIA (1 MEG) 20.49
GLOBDULE 20.49
GOAL 14.49
GOBLIINS 2 .....18.49
GRAHAM GOOCH DATA DISK 12.99
GRAHAM GOOCH WORLD CLASS CRICKET (1 MEG) 18.49
GRAHAM TAYLOR'S SOCCER MANAGER (1 MEG) 9.49
GUNSHIP 2000 (1 MEG) 22.99
HEROQUEST 2 - THE LEGACY OF SORASIL (1 MEG) 16.99
HILL STREET BLUES (NO12) 9.49
HURED GUNS (1 MEG) 22.49
HISTORYLINE 1914-18 (1 MEG) 22.99
HOOK11.49
HUNTER (NO12) 7.99
IK+ 7.99
IMMORTAL (NO12) 10.49
INDIANA JONES ADVENTURE 11.49
INDIANA JONES FATE OF ATLANTIS ADVENTURE (1 MEG) 24.49
INNOCENT (1 MEG) 24.99
INTERNATIONAL RUGBY CHALLENGE 9.99
ISHAR 2 - LEGIONS OF CHAOS (1 MEG) 11.49
IT CAME FROM THE DESERT PLUS ANT HEADS DATA DISK (1 MEG) 14.99
JACK NICKLAUS GOLF 8.49
JAGUAR XJ220 (1 MEG) 9.49
JAMES POND 8.49
JIMMY WHITES SNOOKER (NO12) 13.49
JINXTER (M/SCROLLS) 4.49
JOHN MADDEN'S (U.S.) FOOTBALL 11.49
JURASSIC PARK (1 MEG) 17.99
K240 (UTOPIA 2) (1 MEG) 18.49
KGB 20.49
KINGMAKER (1 MEG) 23.49
KINGS QUEST 1 .....11.49
KINGS QUEST 2 (1 MEG) • 10.99
KINGS QUEST 6 (1 MEG) 22.99
KNIGHTS OF THE SKY (1 MEG) 17.49
LAMBORGHINI 4.99
LASER SQUAD • 9.49
LEGEND (WORLD OF LEGEND) 9.99
LEGENDS OF VALOUR (1 MEG) (NO12) 23.49
LEISURE SUIT LARRY 1 (1 MEG) 11.49
LEISURE SUIT LARRY 2 (1 MEG) 11.49
LEMMINGS 16.99
LEMMINGS 2 .....13.99
LEMMINGS DATA DISK - OH NO! 4.99
LINKS - (GOLF) (HARD DRIVE REQUIRED) (1 MEG) 12.99
LORDS OF CHAOS • 9.49
LOST VIKINGS 19.99
LOTUS 3 - THE FINAL CHALLENGE (1 MEG) (NO12) 16.99
LOTUS TURBO CHALLENGE 2 (NO12) 9.49
LURE OF THE TEMPTRESS (1 MEG) 12.49
M1 TANK PLATOON (1 MEG) 11.49
MAELSTROM (1 MEG) • 22.99
MAGICIAN'S CASTLE (1 MEG) 23.49
MAN UTD PREMIER LEAGUE CHAMPIONS (1 MEG) 19.49
MANCHESTER UNITED 9.49
MANCHESTER UNITED EUROPE 9.49
MANIAC MANSION (NO12) 10.49
MICRO MACHINES 16.99
MICROPROSE 3D GOLF (1 MEG) 10.49
MIG 29 (1 MEG) 10.49
MONOPOLY 18.49
MORTAL KOMBAT (1 MEG) 20.49
NICK FALDO'S GOLF 13.99
NIGEL MANSELL'S WORLD CHAMPSHIP (1 MEG) 11.99
ON THE BALL (1 MEG) 18.99
OPERATION STEALTH (NO12) 11.49
OPERATION WOLF (NO12) 7.99
OVERDRIVE (1 MEG) 11.99
PATRICIAN (1 MEG) 20.49
PGA TOUR GOLF 10.99
PINBALL DOUBLE PACK (PINBALL DREAMS & FANTASIES) (1 MEG) 21.49
PINBALL DREAMS (1 MEG) 13.49
PINBALL FANTASIES 15.99
PIRATES (NOP) 10.49
POLICE QUEST 1 • 13.49
POOLS OF DARKNESS 8.99
POPULOUS & PROMISED LANDS (NO12) 10.49
POPULOUS 2 (1 MEG) + CHALLENGE DATA DISK 22.49
POWER UP (CHASE H.Q, TURRICAN, X-OUT, ALTERED BEAST, RAINBOW ISLANDS) 17.49
POWERMONGER + WWI DATA DISK (NO12) 12.49
PREHISTORIK 2 .....17.49
PREMIER MANAGER (1 MEG) 9.99
PREMIER MANAGER 2 (1 MEG) 13.99
PREMIERE (1 MEG) (NO12) 11.99
PRINCE OF PERSIA (1 MEG) 7.99
PROJECT X (SPECIAL EDITION) (1 MEG) 10.49
PUGGSY (1 MEG) 20.49
PUSH-OVER (1 MEG) 8.49
PUTTY 15.49
RAILROAD TYCOON (1 MEG) (NOP) 13.49
REACH FOR THE SKIES 14.99
RISE OF THE ROBOTS (1 MEG) 25.99
ROAD RASH 17.99
ROBINSONS REQUIEM (1 MEG) 18.99
ROBOCOP 3 (NO12) 10.99
RORKE'S DRIFT 7.99
SABRE TEAM 8.49
SCRABBLE (US GOLD) 19.49
SECOND SAMURAI (1 MEG) (NO12) 20.49
SECRET OF MONKEY ISLAND (1 MEG) 12.99
SECRET OF MONKEY ISLAND 2 (1 MEG) 24.49
SENSIBLE SOCCER ('92/93 SEASON) 13.99
SETTLERS 23.49
SHADOWLANDS 9.49
SHADOWORLDS (NO12) 6.99
SIERRA SOCCER (WORLD CUP EDITION) (1 MEG) • 17.49
SILENT SERVICE 2 (1 MEG) 12.49
SIM CITY DELUXE (SIM CITY, FUTURE CITIES AND TERRAIN EDITOR) 19.99
SIM CITY/LEMMINGS (NO12) 19.49
SIM CITY2000 (1 MEG) 21.49
SKID MARKS (1 MEG) 18.49
SLEEPWALKER 20.99
SMASH TV 7.99
SOCCER KID 18.99
SPACE HULK 22.99
SPACE QUEST 1 • 13.49
SPECIAL FORCES (1 MEG) 10.99
SPEEDBALL 28.99
SPIRIT OF EXCALIBUR (1 MEG) (NOP) 9.49
STARDUST 12.49
SPORTS MASTERS (PGA GOLF, INDY 500, ADVANTAGE TENNIS, EUROPEAN CHAMPIONSHIP'S 1992) (1 MEG) (NO12) 13.99
STREETFIGHTER 2 .....11.49
STUNT CAR RACER (NO12) 7.99
SUPER CARS 2 (NOP) 9.49
SUPER HANG ON 7.99
SUPER SPACE INVADERS 9.49
SUPER TETRIS 12.99
SURBURBAN COMMANDO 17.99
SWIV (NOP) 8.99
SYNDICATE (1 MEG) 22.49
T2 (COIN OP) (1 MEG) 20.49
TEAM 17 COLLECTION (BODY BLOWS, SUPER FROG, OVERDRIVE) • 26.99
TETRIS - 7 COLOURS • 16.99
THE BLUE & THE GREY (1 MEG) 21.49
THE GREATEST (JIMMY WHITES, LURE OF THE TEMPTRESS, DUNE) (1 MEG) • 13.99
THEATRE OF DEATH 20.49
THUNDERHAWK 9.49
TORNADO (1 MEG) 24.99
TURRICAN 27.99
TURRICAN 3 (1 MEG) 17.99
UFO - ENEMY UNKNOWN (1 MEG) • 23.49
ULTIMA 5 (NO12) 7.99
UNIVERSE (1 MEG) 22.49
URIDIUM 2 (1 MEG) 17.99
VIKINGS - FIELD OF CONQUEST (1 MEG) 11.49
VROOM (NO12) 13.49
WALKER 18.49
WAR IN THE GULF 19.99
WARZONE 8.99
WING COMMANDER 1 (1 MEG) 9.99
WINTER GOLD • 12.49
WINTER OLYMPICS 21.49
WIZ 'N' LIZ 20.49
WIZ-KID 10.99
WONDERDOG 16.99
WWF WRESTLING (NO12) 8.99
WWF WRESTLING 2 (1 MEG) 8.99
XENON 2 MEGABLAST 8.49
XMAS LEMMINGS 12.99
YO JOE! 18.49
ZOOL (1 MEG) 12.49
ZOOL 2 (1 MEG) 16.99

AMIGA A1200 APPLICATION SOFTWARE

BRILLIANCE AGA (2 MB MINIMUM, 2 DISK DRIVES OR HARD DRIVE REQUIRED, PROFESSIONAL PAINT AND ANIMATION PACKAGE FOR OUTSTANDING RESULTS. FEATURES ALL AMIGA SCREEN MODES INCLUDING AGA) 114.99
DELUXE PAINT 4 (AGA FOR AMIGA 1200 WORKS IN 256 COLOUR AND NEW 8-BIT HAM MODE, 2 DISK DRIVES RECOMMENDED) 59.99
VISTA PRO (LITE VERSION). REQUIRES HARD DRIVE. CREATE SPECTACULAR VIRTUAL WORLDS WITH THIS POWERFUL SCENERY CREATOR AND ANIMATOR. SPECIAL LITE VERSION TO RUN ON A1200 OR ABOVE 44.99
WORDWORTH V.3 WORD PROCESSOR (REQUIRES 2 MB RAM, AGA COMPATIBLE, 2 DISK DRIVES OR HARD DRIVE REQUIRED. THE LATEST AND BEST VERSION OF TOP QUALITY WORD PROCESSOR/PUBLISHER SYSTEM. RRP 149.99. LAUNCH OFFER WHILE STOCKS LAST 59.99

AMIGA APPLICATION SOFTWARE

AMOS (GAMES CREATOR) 29.99
AMOS CRAFT. ADD ON EXTENSION TO AMOS GIVING OVER 160 NEW COMMANDS AND INSTRUCTIONS TO GIVE AMOS OR AMOS PROFESSIONAL GREATER FLEXIBILITY & POWER. REQUIRES AMOS OR AMOS PROFESSIONAL 19.99
BLITZ BASIC 2. A BRAND NEW FAST AND EASY TO USE VERSION OF BASIC. COMPLETE WITH MANUAL AND COMPILER SYSTEM. THE HOTTEST NEW PROGRAMMING LANGUAGE AVAILABLE. THE TOP SELLING SKID MARKS GAME WAS CREATED WITH BLITZ BASIC 2 .....56.99
DELUXE PAINT 3 ART AND ANIMATION PACKAGE. VERY POWERFUL WITH EXTENSIVE FEATURES. MANY FONT AND PRINTING OPTIONS WITH UP TO 64 COLOURS. AN AWARD WINNING PACKAGE 14.99
DELUXE PAINT 4 (1 MB) (HAM MODE & ANIMATION) 59.99
HANNA BARBERA ANIMATION WORKSHOP. 1 MB, EXCELLENT ANIMATION PACKAGE CAPABLE OF CREATING CARTOONS AND QUALITY ANIMATIONS 27.99
HOME ACCOUNTS 9.99
MINI OFFICE (1 MB, WORD PROCESSOR, SPREADSHEET, DATABASE AND DISK UTILITIES) 35.99
MONEY MATTERS (HOME ACCOUNTS 3). LATEST VERSION OF THE EXCELLENT MONEY PACKAGE FROM DIGITA 35.99

AMIGA A1200 2/0 LEMMINGS PACK

COMMODORE AMIGA A1200 2/0 LEMMINGS PACK

COMPUTER WITH MOUSE, BUILT-IN TV MODULATOR, 2MB RAM EXPANDABLE TO 10MB, WORKBENCH 3.0, 32 BIT MOTOROLA 68020 PROCESSOR RUNNING AT 14MHz. NEW AGA GRAPHICS CHIPSET.
1 YEAR IN-HOME SERVICE WARRANTY
WITH LEMMINGS & DELUXE PAINT 3. ...275.99

COMMODORE AMIGA A1200 LEMMINGS PACK (AS ABOVE)

WITH INTERNAL 2.5" HARD DRIVES

COMPUTER + 64MB INTERNAL 2.5" DRIVE 415.99
COMPUTER + 80MB INTERNAL 2.5" DRIVE 439.99
COMPUTER + 127MB INTERNAL 2.5" DRIVE 489.99
COMPUTER + 200MB INTERNAL 2.5" DRIVE 539.99

OVERDRIVE HIGH SPEED HARD DRIVES FOR AMIGA A1200

EXTERNAL DRIVE STYLED TO MATCH AMIGA.
PLUGS INTO PCMCIA SLOT.
EXTERNAL PSU.
WESTERN DIGITAL DRIVE UNIT, 12MS ACCESS TIME.
AQ TOOLS AND
1 YEAR WARRANTY.

OVERDRIVE 120MB HIGH SPEED HARD DRIVE FOR A1200
(DRIVE MECHANISMS MAY VARY CIRCA 15MS) 255.99
OVERDRIVE 210MB HIGH SPEED HARD DRIVE FOR A1200 289.99
OVERDRIVE 250MB HIGH SPEED HARD DRIVE FOR A1200 309.99
OVERDRIVE 340MB HIGH SPEED HARD DRIVE FOR A1200 369.99
OVERDRIVE 420MB HIGH SPEED HARD DRIVE FOR A1200 439.99

AMIGA A1200 DYNAMITE PACK

COMMODORE AMIGA A1200 DYNAMITE PACK

PLUS FOUR FREE GAMES

COMPUTER WITH MOUSE, BUILT-IN TV MODULATOR, 2MB RAM EXPANDABLE TO 10MB, WORKBENCH 3.0, 32 BIT MOTOROLA 68020 PROCESSOR RUNNING AT 14MHz. NEW AGA GRAPHICS CHIPSET.
1 YEAR IN-HOME SERVICE WARRANTY
WITH WORDWORTH 2.0 AGA WORD PROCESSOR, DELUXE PAINT IV, PRINT MANAGER, OSCAR & DENNIS.
FREE ELITE 2, BATMAN RETURNS, LEMMINGS 2 & CIVILISATION AGA GAMES
(WHILE STOCKS LAST) 325.99

COMMODORE AMIGA A1200 DYNAMITE PACK (AS ABOVE)

WITH INTERNAL 2.5" HARD DRIVES

COMPUTER + 80MB INTERNAL 2.5" DRIVE 499.99
COMPUTER + 127MB INTERNAL 2.5" DRIVE 549.99
COMPUTER + 200MB INTERNAL 2.5" DRIVE 599.99
COMPUTER + 340MB INTERNAL 2.5" DRIVE 749.99

COMMODORE AMIGA A600 LEMMINGS PACK

COMPUTER WITH MOUSE, WORKBENCH 2.0, 1 MB RAM EXPANDABLE TO 10MB. 1 YEAR IN-HOME SERVICE WARRANTY.
WITH LEMMINGS, DELUXE PAINT 3, FORMULA ONE GRAND PRIX, PUSH OVER AND PUTTY 199.99

CONNER HARD DRIVES FOR AMIGA

CONNER 64MB HARD DRIVES (INTERNAL IDE, MODEL CP2064). HIGH SPEED 2.5" DRIVE, 15MS ACCESS TIME (APPROX). 32K CACHE AND 1 YEAR WARRANTY. KIT COMPLETE.
PLEASE NOTE THAT OPENING YOUR AMIGA, MAY INVALIDATE YOUR WARRANTY.

CONNER 64MB HARD DRIVE FOR A1200 .....129.99
CONNER 64MB HARD DRIVE FOR A600 .....129.99

COMMODORE AMIGA CD32 DANGEROUS STREETS PACK

INCLUDES WING COMMANDER, OSCAR, DIGGERS AND DANGEROUS STREETS GAMES. CD BASED CONSOLE WITH A1200 32-BIT POWER. 256,000 COLOURS FROM 16.7 MILLION PALETTE, 2 MEG RAM, FAST 14MhZ 68020 CHIP. PLAYS AUDIO CD'S VIA ON SCREEN DISPLAY, CD+G & VIDEO CD'S WITH ADAPTOR AVAILABLE.
259.99

OR SPECTACULAR VOYAGE PACK WITH CHAOS ENGINE & MICROCOSM CD's *ONLY 279.99*

MEGADRIVE & MEGA CD DEALS

MEGADRIVE 1 WITH SONIC 2 & 2 CONTROL PADS 95.99

MEGADRIVE 2 WITH SONIC 2
AND 2 CONTROL PADS 109.99
MEGADRIVE 2 WITH ALADDIN
AND 2 CONTROL PADS 114.99
MEGADRIVE 2 WITH SONIC 3
AND 2 CONTROL PADS 124.99

MEGA CD 2 UNIT FOR SEGA MEGADRIVE
WITH SOL FEACE, COBRA COMMAND, SEGA CLASSICS (COLUMNS, SUPER MONACO GRAND PRIX, STREETS OF RAGE, GOLDEN AXE, REVENGE OF SHINOBI). CONNECTS TO MEGADRIVE 1 OR 2 TO PLAY MEGA CD TITLES. (DOES NOT INCLUDE MEGADRIVE) 219.99

FOR A PIXEL PERFECT PICTURE CHOOSE A SCART TELEVISION

FOR A *FREE* 16 PAGE COLOUR CATALOGUE *CALL* 0279 600204

SONY
DSDD 3.5" DISKS WITH LABELS
PACK OF 10 + *FREE* PLASTIC FLIP TOP BOX 6.99
PACK OF 50 22.99

SUPER NINTENDO DEALS

SUPER NES MARIO ALL STARS PACK WITH SUPER MARIO 1, 2 AND 3 PLUS LOST LEVELS GAMES AND ONE JOYPAD.
WITH *FREE* SCOPE 6 LIGHT GUN AND 6 GAMES 114.99

FREE
SCOPE 6 LIGHT GUN AND 6 GAMES WITH EVERY SUPER NES MARIO ALL STARS PACK
(WHILE STOCKS LASTS)

SUPER NES STARWING PACK WITH STARWING AND ONE JOYPAD 95.99

FOR A PIXEL PERFECT PICTURE CHOOSE A SCART TELEVISION

Special Reserve
The Discount Club

Special Reserve members can have all this.. can YOU?

- **READ our 48 page Regular Club Magazine**
- **CHOOSE from our Huge Selection**
- **BUY at Best Possible Prices**
- **SAVE with our Special Deals**
- **SAVE more with our XS Coupons**
- **WIN fabulous prizes in our FREE competitions**

JOIN now from just £4.00

We only supply members but you can order as you join

There's no obligation to buy and you can be any age. Just send in the form below or phone Sales on **0279 600204**.

As a member of Special Reserve you'll receive regular issues of our 48 page colour club magazine sent bi-monthly only to Special Reserve members.

1. The best selection of games, peripherals and hardware for all popular formats. We are official Sega, Nintendo and Sony stockists.
2. Reviews in colour and latest information on new products
3. Charts and Release Schedule, to help you choose and plan
4. The best prices. Just one purchase could save you your joining fee
5. Hundreds of Special Offers. Top games at prices you won't believe
6. XS Super Savers. Money-off coupons worth over £180 a year
7. **PRIZE COMPETITIONS**. Loads of prizes to be won in every magazine, exclusive to members and *free to enter!*

That's why over 200,000 people have joined Special Reserve, the biggest discount club in the World!

0279 600204

OPEN 10am til 8pm Seven Days a Week!
Order/Confirmation/Receipt sent for every order.
You can also Fax your order to us on: 0279 726842

We pride ourselves on our after-sales service. (18 customer service lines) Inevitably some games listed may not yet be available. Please phone sales on 0279 600204 to check availability before ordering. In the event of delay we issue refunds on request at any time prior to despatch. We reserve the right to change prices and offers without prior notification. E & O.E.

FREE 16-PAGE COLOUR CATALOGUE TELEPHONE 0279 600204

CLUB SHOPS AT CHELMSFORD & SAWBRIDGEWORTH OPEN 10am til 8pm 7 DAYS.
Registered Office: Inter-Mediates Ltd, 2 South Block, The Maltings, Sawbridgeworth, Herts. CM21 9PG.
All prices include VAT and carriage to UK mainland. See base of order form for overseas surcharges. We supply hardware only to UK mainland addresses.

MEMBERSHIP FEES	6 MONTHS TRIAL MEMBERSHIP	ONE YEAR ANNUAL MEMBERSHIP	TWO YEARS WITH FREE HARD BINDER
UK MEMBERS	**4.00**	**7.00**	**14.00**
OVERSEAS EC MEMBERS	6.00	9.00	18.00
OVERSEAS WORLD MEMBERS	7.00	11.00	22.00

WE ONLY SUPPLY MEMBERS BUT YOU CAN ORDER AS YOU JOIN.
NEW MEMBERS ADD £4.00 MEMBERSHIP FEE
(PLEASE PRINT IN BLOCK CAPITALS) YETI

Name_____
Address_____
_____
_____ Postcode _____
Phone _____ Machine_____
Enter membership number (if applicable) or
NEW MEMBERSHIP FEE (6 MNTH TRIAL) £4.00
item_____
item_____
item_____
item_____
ALL PRICES INCLUDE UK POSTAGE & VAT £
Cheque/P.O./Access/Mastercard/Switch/Visa (Switch Issue No_____)
Card expiry date_____ Signature_____

Cheques payable to: **SPECIAL RESERVE**
P.O. BOX 847, HARLOW, CM21 9PH

Overseas Orders Surcharge (EC or World): Software orders please add £2.00 per item. Non-software items please add 25%. Hardware items supplied to UK mainland only. *Overseas orders must be paid by credit card.*

100 TDK HIGH DENSITY £78.99

LOWEST PRICES

BEST SERVICE

RAPID DELIVERY

GREY-TRONICS LTD

SALES HELPLINE 081 686 9973 / 081 781 1551

DISKS DISKS DISKS + LOCKABLE BOXES

100% CERTIFIED ERROR FREE

50 3.5" DS/DD	£21.99 + 100 cap lockable box	£25.99
100 3.5" DS/DD	£35.99 + 100 cap lockable box	£39.99
150 3.5" DS/DD	£51.75 + 100 cap lockable box	£55.75
200 3.5" DS/DD	£66.99 + 2X 100 " "	£75.99
300 3.5" DS/DD	£99.99 + 3X 100 " "	£110.99
400 3.5" DS/DD	£132.99 + 4X 100 " "	£147.99
500 3.5" DS/DD	£149.99 + 5X 100 " "	£169.99
1000 3.5" DS/DD	CALL + 10X 100 " "	BEST PRICE

FREE LABELS + FREE DELIVERY BY PARCEL FORCE

3.5" DELUXE LOCKABLE BOXES

40 Capacity £3.99
100 Capacity £4.50
Add £3.10 P&P

3.5" STACKABLE BOXES

110 Cap Banx £8.99
150 Cap Posso £16.00
Add £3.10 P&P

100 3.5" HIGH DENSITY BULK DISKS £55

AMIGA CD32

NEW PACK MICROCOSM CHAOS ENGINE

£278.99

FREE DELIVERY

4 GAMES PACK
OSCAR, DIGGER, DANGEROUS STREET, WING COMMANDER

£259.99

FIRST COME FIRST SERVED
Add £20 for 100 games

AMIGA 1200 PACKS

RACE 'N' CHASE
Nigel Mansells + Trolls

£289.99

DESKTOP DYNAMITE
Or NEW PACK
COMBAT PACK

£319.99

ADD £10 for 10 Disks, Mouse mat, Joystick, Disk Cleaner, 40 Cap lockable box

£309.99 | £339.99

FREE Mouse mat - Disk Cleaner - Joystick
Syndicate, Chaos Engine, Nick Faldo's Golf, Pinball

85Mb ..... £479.99 85Mb £475.99
127Mb ..... £509.99 127Mb £524.99

Authorised Dealers – 1yr. at home service FREE DELIVERY

SMART BUY

12 GAMES FOR £14.99

Road to Hell, Tank Battle, AGA Tetris, Pacman 92, Duel, Lemmingoids, Mouseman, Wizzy's Quest, Premier Picks, Tangle, Super League Manager, Bop & Flop

STARTING PACK £14.99 FOR:

10 Disks, Mouse Mat, Microswitch Joystick, Storage box, Disk cleaner

Add £3.10 P&P

AMIGA 4000 Desktop

030EC/2Mb RAM 130 Mb IDE	£975
030EC/4Mb RAM 130Mb IDE	£1075
030EC/6Mb RAM 214Mb IDE	£1165
030EC/6Mb RAM 540Mb IDE	£1455
040LC/6Mb RAM 214Mb IDE	£1599
040LC/6Mb RAM 540Mb IDE	£1839

AMIGA 600 WORD PROCESSOR PACK

Lemming pack + Dpaint III £189.99
Wild, Weird, Wicked £199.99

FREE DELIVERY

RAM UPGRADE & MATHS ACCELERATOR

AMITEK HAWK for AMIGA 1200 **FREE DELIVERY**

FREE DELIVERY	No FPU	20 MHz FPU	33 MHz FPU	40 MHz FPU
1Mb Ram	£99	£145	–	–
2Mb Ram	£127	–	£197	–
4Mb Ram	£197	£247	–	£295
8Mb Ram	£389	–	–	£489

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
Python 1M Joystick	£8.75
Joystick Splitters (2)	£5.99
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

INKJET CARTRIDGES & REFILLS

HP Deskjet Black Ink Cartridges	£15.99
HP Deskjet Black Ink Refill	£9.99
HP Deskjet Black Dual Capacity Cartridge	£22.99
HP Deskjet Black Dual Capacity Refill	£15.99
HP Deskjet 500 C Colour Cartridges	£25.99
HP Deskjet 500 C Colour Refill	£16.99
Cannon BJ 10e/ex Black ink Cartridges	£16.99
Cannon BJ 10e/ex Black ink Refill	£9.99

Add £2 for Delivery

PRINTERS

FREE Wordworth Word Processor RRP £129.99 AS STOCK LAST
Free Leads, Free delivery with **all printers**

Panasonic 2123 24 pin Colour	£204.99
Citizen Swift 200 24 pin colour	£204.99
Star LC24-30 24 pin colour + sheetfeeder	£229.99
Star LC100 9 pin colour	£149.99
Citizen Swift 90 9 pin colour	£164.99
Panasonic 1170 9 pin mono	£129.99
Panasonic 1123 24 pin mono	£149.99

MONITORS

Commodore 1084/1085	£189.99
Sharp TV/Monitor	£179.99
Commodore 1942	£334.99

FREE DELIVERY

TOP QUALITY RIBBONS

	Black Branded	Black Compatible	Colour Branded
Panasonic KXP1124/1123/1180/1080	8.50	3.30	N/A
Panasonic 2123/2180	8.15	4.00	15.45
Citizen 120D/Swift 9/24	N/A	2.70	13.60
Citizen 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 LC2410/24200	N/A	3.50	12.50
Epson LX400/LQ100	N/A	4.00	N/A

Add £2 for Delivery

ACCESSORIES

3.5" Disk head Cleaner	£2.99
Mouse Mat	£2.25
1000 Labels	£10.00
Amiga Disk Drives (Cumana/Amitek/Zappo)	£54.99
Manhattan Mouse Amiga/Atari	£12.50
Universal Printer Stand	£4.99

ADD £2.00 FOR DELIVERY

ALL PRICES INCLUDE VAT & DELIVERY (Unless otherwise Stated) 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: 081 686 9973 Mail order prices only **FAX: 081 686 9974**

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

Brave new world

Despite the recession, intense competition, and Commodore's financial woes, the Amiga is still Britain's most popular home computer by a long way. Stevie Kennedy looks at where the Amiga can go from here and how Commodore are fighting back from the brink

Twelve months of determined gloom on the part of many in the Amiga industry, coupled to a deep recession and Commodore's recent financial crisis, may have led some of our readers to believe that the Amiga's future is nothing but bleak.

The facts as we see them today paint a very different picture. The success of the A1200, and CD32's capture of the biggest slice of the fledgling CD-ROM market, look set to give Commodore a stable base from which to develop the Amiga into the late 90s.

"Where do we go from here?" is still the most pressing question on most users' lips, however, and in an attempt to gauge the mood and direction of the industry we set out to ask a number of industry insiders to give us their view of the Amiga and its future.

The first and most cheering impression is the high degree of optimism present among those who make their living from the machine. Despite the short-sighted view taken by some US companies, many of whom have never appreciated the importance of the European market, most UK firms we approached had adopted a positive outlook.

Recent figures showing the Amiga as a strong front-runner in the games market have helped boost things further, and general confidence seems to be on an upward trend.

From the horse's mouth

Meridian Distribution

Now Britain's biggest importer of Amiga software, Meridian Distribution sell almost everything from basic paint programs to high-end music and graphics packages, and are therefore in a good position to cast a weather eye over the market as a whole.

I spoke to Meridian's Rue Stanley, whose disposition remains staunchly cheerful at all times, and asked her how things were compared to the good old A500 boom days.

Compared to the boom period of the A500's heyday, how healthy would you say today's market is?

The Amiga market is very healthy. In fact, in the years that we have been selling software our business has doubled.

In which areas do you feel that the Amiga is currently strongest and weakest?

I consider the main strengths of the Amiga to be in the video market for titling, animation, home office use, DTP, and so on. Networking and business applications are the least exploited areas.

How confident do you feel about the market for the next two years?

I am very confident about the Amiga and I'm looking forward to introducing many new products.

With excellent products like PageStream 3.0 on the way, Meridian are happy with Amiga productivity development

Can you provide a rough guide to the rise and fall in sales since 1990, and which types of hardware and software have fared well or badly?

The software products that have fared particularly well are graphics packages, word processors, DTP, animation, and programming tools.

How well would you say the new Amigas are doing? Do you look forward to the AAA machines, and is new technology strengthening the market or confusing it?

I think that the new Amigas are doing very well, and we are looking forward to the new machines. I believe that technology strengthens the market and gives it a chance to grow.

What can Commodore do to improve your confidence in the Amiga?

They need to shout louder about how great they are. Multimedia is the latest buzzword in the PC market. The Amiga has had brilliant multimedia capabilities for years, but general awareness of this is still too low in the computer market place.

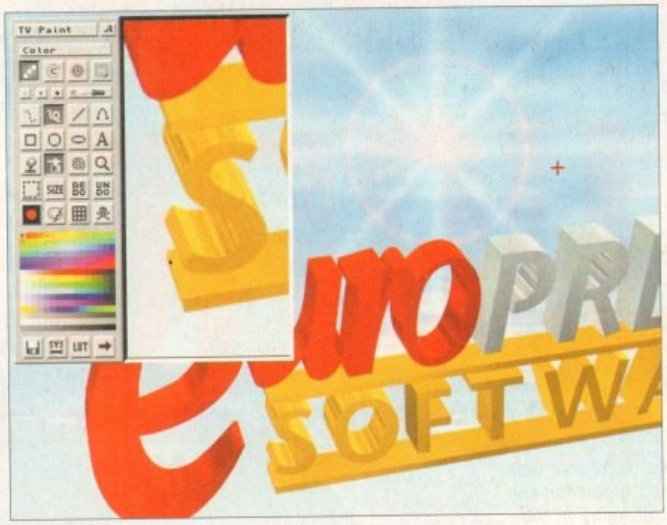
Amiga Centre Scotland

Martin Lowe and ACS have for years been involved at the high-end of the Amiga market in broadcast TV and video, developing the Harlequin 32-bit card for that purpose and distributing a range of graphics packages, video add-ons, and other professional products.

As a specialist organisation servicing what for the Amiga is still a relatively small market ACS have therefore felt more frustration than most at Commodore's lack of marketing momentum.

I asked the same questions as those I put to Rue Stanley, and his answers offer an interesting contrast to the view from the middle of the market.

Compared to the boom period



TVPaint on the ACS Harlequin board has been one of the mainstays of the high end Amiga for two years

The days when approaching Commodore executives and asking them for information was akin to a frontal assault on a machine gun nest are well and truly over, and in today's more enlightened atmosphere it seems that you only have to phone and say hello to be buried in facts and figures.

Commodore (UK) boss David Pleasance has been one of the most open and informative executives since taking over the home computer world's equivalent of the England football managership, and on the subject of the Amiga's future he can be refreshingly forthcoming.

I asked him a range of questions on this and on the state of the market in general, and touched on the painful subject of past mistakes. His answers reflect the growing mood of confidence that the Amiga, having survived a world recession and a few bad patches of its own, is still the number one home computer in Europe.

MISTAKES

Starting with past marketing initiatives and the relative failure of the Amiga in some productivity areas, David admitted that Commodore had made mistakes.

"We have never successfully segregated the Amiga range, and the high-end machines have struggled to shrug off the image that the Amiga is a glorified toy – we were marketing the product entirely wrongly," he told me.

"I believe we are on the verge of successfully doing that for the first time. Macs and PCs have always offered a complete solution for £6,000 or £7,000 including the extra hardware, whereas we have sold the Amiga 4000 as a standalone product at £2,000.

"The purpose of the A.C.E. initiative (see panel) is to gather all our third-party hardware and software expertise under one umbrella for the first time.

"As we start marketing this concept we should be taken much more seriously. We will have five or six A.C.E. centres within three months, which is part of a master plan we've been working on for some time."

With the high-end and future developments in mind, I asked David when the AAA chip set would be available and what the next range of Amigas would look like. There have, for instance, been rumours that AAA was being dropped.

"Absolutely not. AAA is integral to our future. We lost a couple of good engineers which set us back a bit, but the first AAA machine should now be released in the Spring of 1995."

And are Commodore still taking the Risc route?

"Yes. We are taking a Risc core and adding a 3D

David Pleasance's reign as Commodore MD has seen a huge improvement in the company's approach to marketing

of the A500's heyday, how healthy would you say today's market is?
Rather precarious.

In which areas do you feel that the Amiga is currently strongest and weakest?
It is strongest in games and the home computer area, but weakest in professional broadcast videographics, and commercial and educational multimedia.

How confident do you feel about the market for the next two years?
Not very, unless Commodore is radically changed.

In which directions do you predict that the market will move?
Towards the total integration of TV, video, audio, and computers.

Can you provide a rough guide to the rise and fall in sales since 1990, and which types of hardware and software have fared well or badly?
We're only involved in the area of graphics and video, but this has done reasonably well despite lack of interest and support from Commodore UK.

How well would you say the new Amigas are doing? Do you look forward to the AAA machines, and is new technology strengthening the market or confusing it?
The A4000 is a great machine technically, but crippled by a marketing and pricing policy which means no professional dealer would touch it with a barge-pole.

Again, the technology of the AAA chips is very exciting, but Commodore engineering don't have the resources to develop it properly. New technology is essential for the survival of the Amiga.

What can Commodore do to improve your confidence in the Amiga?
Commodore UK needs strategic thinking and planning rather than quarterly sales targets. It needs marketing expertise covering both the professional and the consumer markets; to recruit a base of professional dealers; to support proven quality products and dealers rather than hare-brained schemes and vapourware; to encourage third party developers; to price the Amiga sensibly; and to tell the public, dealers, and developers what they are doing.

> There's a 'feel good' factor in the air which was absent before the A1200s launch

Commodore's 64-bit Risc processor should be at least as powerful as the 66MHz Motorola PowerPC chip

rendering engine surrounded by the AAA chip set. This allows complete compatibility with Windows NT and the existing Amiga."

Will you be using the Motorola PowerPC chip?
"No. We are developing our own chip in allegiance with a couple of well-known companies (David refused to be drawn on their exact identities) and we should have a high-end graphics workstation which is far ahead of the present A4000 in terms of power."

So what about the home market and the machines on which Commodore is building its future? Was he happy with the sales of A1200 and CD32 machines?

"We're extremely happy with the A1200, which has surpassed all our expectations despite the fact that we've never advertised it. With the low price and the bundles we've produced, it is selling all year round rather than just at Christmas.

"CD32 is disappointing because the console market has been down on predictions. Sega and others are about 40 per cent down as far as we can tell, but we're encouraged that we have the lion's share of the CD market (44 per cent according to Gallup). Basically, we've proven the cynics wrong."

And you're confident that you can retain your market share?

"We're in pole position for an excellent Christmas. 3DO has been an absolute flop in the States, and Jaguar is seeing a low level of support because developers aren't keen on a new cartridge-based system, so our only real competitor is CD-i."

This reflects the comforting thought that the Amiga has already proved itself a tough street fighter by pushing the ST into an early grave and leaving no room for the ill-fated Falcon, so with the PC still a more expensive option there is precious little other competition.

So long as there is a market for a quality inexpensive home computer, the Amiga should sell well. But exactly how well is it selling?

"We're not releasing exact figures because we want to keep our marketing information to ourselves for the time being," David replied guardedly, "but I can tell you we have 98 per cent of the home computer market under the £500 mark. The March 1994 *Which?* magazine votes the A1200 best all-round home computer in that price band."

And will the A1200 continue in its present form or will we see upgrades?

"Probably the biggest mistake we made was the quick jump from A500 to A500 Plus then A600, which confused a lot of people. We won't be doing that again, but developments from the new high-end Amigas will migrate downwards to the home machines over time. Any new machine with better specifications will be priced above the A1200."

A.C.E. in the hole

The Amiga Centre of Excellence initiative, Commodore's latest attempt to promote the Amiga as a serious tool, is possibly their only concerted effort so far to bring together the best third-party software and hardware together under one umbrella and give the Amiga a chance to show itself off at its best.

In the past, prospective end users have had to rely on magazines for second-hand information, or computer shows for brief first-hand glimpses of equipment which is usually scattered across several stands in a large hall.

The first A.C.E. site to get off the ground is based in Pentrefoelas, north Wales, and should hopefully be followed by several others over the next few months.

Situated in a large renovated stable block, part of an award winning village regeneration project, the centre offers a stark technological contrast to the surrounding Welsh countryside.

I put it to Peter Simunovic, the centre's Croatian-born managing director, that he was a little off the beaten track.

"Not at all. Because of the M56 and A55, we're less than two hours from Manchester airport, which is the same time it takes to get from Gatwick or Heathrow to the centre of London. We don't have many traffic jams around here."

And did he predict success in luring clients out of London into the wilds of Clywd?

"Certainly. I completed a major multimedia project with the North Wales Tourist Board before we opened here, and we're talking to other Welsh organisations and the Scottish Tourist Board.

What A.C.E. also offers, I soon discovered, is a wealth of the best Amiga hardware and software around. A4000s and A3000s packed with everything from the new Mo-Miga 1.2 gigabyte optical drive, to VLab digitisers and GVP IV24 cards bedecked the main demo room as interested locals watched the cream of Amiga equipment put through its paces.

Bill Owen (left) and Peter Simunovic, at the launch of the first Amiga Centre of Excellence

Probably the most heartening aspect of this sort of collection is that there was hardly a question one could imagine remaining unanswered by at least one of the expanded Amigas being displayed.

One person walked home with a colour print of herself thanks to a Sony camcorder, VLab, and the Primera printer, while others explored the London underground system using Mick Tinker's superb CD32-based touchscreen information program. As the A.C.E. programme gathers steam, and further centres open in other areas of the country, we should see a general improvement in the Amiga's productivity image.

Power Computing

Bedford-based Power Computing have been working in the Amiga market for over five years, developing their own range of hard drive, RAM, and scanner peripherals, and distributing a range of productivity add-ons covering everything from the low end of the spectrum to expensive A4 flatbed scanners and laser printers.

They are smack bang in the middle of the market and in an ideal position to judge the way in which the Amiga is developing, so I asked Power's *capo di capi*, Tony Ianiri, not generally known for his reticence, to answer the same seven questions put to Martin Lowe and Rue Stanley.

Compared to the boom period of the A500's heyday, how healthy would you say today's market is?
Very healthy. The release of the A1200/4000 poured new life into the Amiga and it hasn't looked back since.

In which areas do you feel that the Amiga is currently strongest and weakest?
The problem is that very few people take it seriously. Commodore are now actively trying to enhance the Amiga's reputation and push it further into the serious market. The games image is left over from A500 days and is very difficult to shake off.

The strongest area has to be graphics and video applications. Where else can you get a full 24-bit card for less than £300? Multimedia packages such as Scala are virtually unequalled, Mpeg boards are now available, and FMV on the CD32 gives incredible scope for software.

One of Power's high end products, the 128Mb optical drive

How confident do you feel about the market for the next two years?
Confidence at Power has never been higher. We will continue to develop for the Amiga, and the release of the AAA Risc-based, NT-compatible machines next year gives plenty of scope for the next few years. Also, Commodore are restructuring and David Pleasance is doing an excellent job.

In which directions do you predict that the market will move?
We believe the games market will move towards your massive graphics adventure game that oozes realism. The professional side of the market will move even further towards graphics and video applications.

Can you provide a rough guide to the rise and fall in sales since 1990, and which types of hardware and software have fared well or badly?
We've always had steady sales and still sell as much now as in the A500 boom days.

How well would you say the new Amigas are doing? Do you look forward to the AAA machines, and is new technology strengthening the market or confusing it?
The A1200 is a success story. For your money you get a fantastic all-round machine, and the A4000, though too expensive for most pockets, is a mean machine.

CD32 is selling well, even with the lack of any real CD games (most are just updated A1200 games), and the launch of FMV opens up new avenues for pop music and videos. Any new technology such as AAA will certainly strengthen the Amiga's position.

What can Commodore do to improve your confidence in the Amiga?
Had you asked this question six months ago, I would have said "take the Amiga seriously", but now I'm pleased to say that Commodore are actively pushing the Amiga into the serious market place and concentrating on multimedia where the Amiga excels.

Premier Vision

Andy Bishop and Andy Gould are the men behind Premier Vision, a company specialising in multimedia, music, and graphics applications, selling projects to companies such as Granada Television and British Gas.

Recently, however, the two Andies decided to make their own move alongside the A.C.E. initiative to give the Amiga a boost in the serious market. The result was the first of a series of regular seminars, held at King's College, London, on March 14, which was attended by leading developers in the Amiga industry and a gaggle of interested video experts from, among others, the BBC and ITV.

They were treated to a display of high-end Amiga video and multimedia technology including Hellfrich International's new

Andy Bishop of Premier Vision, promoting the Amiga for all its worth

> We have struggled to shrug of the image that the Amiga is a glorified toy - we were marketing the product entirely wrongly
>
> *David Pleasance, MD, CBM (UK)*

Peggy Plus Mpeg card and a new Jpeg digital video card, DPS's stunning Personal Animation Recorder, the Mo-Miga 1.2Gb (yes, gigabyte) optical drive, Sunrize's AD516 sound card, Bars & Pipes Professional, Zen technology's broadcast-standard character generator, and Scala MM300.

The effect was impressive, and the movement towards this sort of non-partisan seminar approach, where products are allowed to speak eloquently for themselves before a live audience, should see a great improvement in the Amiga's high-end profile. Judging from the many searching questions asked by the video professionals in the crowd, interest levels were certainly high enough to hail the idea as a great success.

As Mr Bishop put it: "If we don't do this sort of thing, who will?" AC

Conclusion

As the Amiga still holds 50 per cent of the games market, and has a headstart in CD-ROM with CD32, the machine's leisure talents seem set to carry on delighting new owners for some time to come.

Worries over the US and European markets aside, the Amiga has a firm hold in the UK, and Commodore's better late than never awakening towards promoting the Amiga in video and multimedia should reap some sort of reward sooner or later.

IMPROVEMENT

It is too soon to say whether Commodore's long neglect of the machine's high-end potential has caused too much damage for A.C.E. or companies such as Premier Vision to overcome, but since the Commodore PC range was dropped and the Amiga concentrated on as the company's only hope of survival, we have seen a huge improvement in both effort and attitude.

Christmas 1994 will be the testing time. If CD32 scores a big success as Commodore predict, and the A1200 continues to sell strongly, neither of which seem unreasonable hopes, Commodore UK at least should finish the year on much firmer ground than they started it.

However, further efforts in marketing and promotion are required to make up the ground lost during the A500 boom when a blinkered management sat back on what proved to be mercurial laurels.

The CD32 and A1200 have captured the imagination of thousands of new young Amiga owners

E & OE
13/03/94

White Knight Technology

PROFESSIONAL
AMIGA SPECIALISTS

0992 - 714539
FAX 10am - 7pm Monday - Friday

PO BOX 2395, WALTHAM CROSS, HERTS, EN8 7HQ

2.5% Surcharge On Credit Cards. NOT Switch or Visa-Delta

ALL PRICES INCLUDE VAT

A1200 ACCELERATORS

GVP A1230 II, 40MHz EC030, Opt. FPU

WITH	0MB 32-Bit RAM	£ 245
	4MB 32-Bit RAM	£ 439
	4MB RAM + 40MHz 68882	£ 565

GVP A1230 II, 50MHz 030, Optional FPU

WITH	0MB 32-Bit RAM	£ 375
	4MB 32-Bit RAM	£ 575
	4MB RAM + 50MHz 68882	£ 719

MICROBOTICS M1230XA

WITH	25MHz 68030 & MMU, 0MB	£ 225
	33MHz 68030 & MMU, 0MB	£ 249
	50MHz 68030 & MMU, 0MB	£ 319

A2000 ACCELERATORS

CSA DERRINGER 25MHz 68030 MMU + 68881. Holds One 32-Bit SIMM £ 329

GVP G-FORCE 40MHz 68EC030 + 4MB 32-Bit RAM + SCSI Port £ 589

CSA MAGNUM 28MHz 68040, 0MB & SCSI-2 (Optional Serial & Parallel) £ 849

GVP G-FORCE 33MHz 68040 + 4MB + Serial, Parallel & SCSI Ports £ 989

CSA MAGNUM 33MHz 68040, 0MB & SCSI-2 (Optional Serial & Parallel) £ 999

A4000 ACCELERATORS

AFTERBURNER 50MHz 68030 MMU, Optional 68882 and 32-Bit RAM £ Call

RCS EXCALIBUR 25MHz 68040 + 32-Bit RAM (For A4000-040 ONLY!) £ 649

RCS EXCALIBUR 33MHz 68040 + 32-Bit RAM (For A4000-040 ONLY!) £1149

GVP G-FORCE 40MHz 68040 + 32-Bit RAM (For A4000-030 & A4000-040) £ Call

Please Call for latest Details and Pricing.

AMIGA 1200HD

A1200 + 80 MB Hard Drive	£ 439
A1200 + 127 MB Hard Drive	£ 489
A1200 + 200 MB Hard Drive	£ 539
A1200 + 340 MB Hard Drive	£ 689

ADD £ 50 FOR DESKTOP DYNAMITE

All A1200's are covered by WANG / ICL On-Site Warranty

AMIGA 4000

EC-030

A4000-EC030, 2MB RAM, 130 MB	£ 989
A4000-EC030, 4MB RAM, 130 MB	£ 1089
A4000-EC030, 6MB RAM, 214 MB	£ 1189
A4000-EC030, 6MB RAM, 340 MB *	£ 1289
A4000-EC030, 6MB RAM, 420 MB *	£ 1389
A4000-EC030, 6MB RAM, 540 MB	£ 1489

LC-040

A4000-LC040, 6MB RAM, 214 MB	£ 1639
A4000-LC040, 6MB RAM, 340 MB *	£ 1739
A4000-LC040, 6MB RAM, 420 MB *	£ 1839
A4000-LC040, 6MB RAM, 540 MB	£ 1879

040-Tower

A4000T-040, 6MB RAM, No H/Drive	£ 1829
A4000T-040, 6MB RAM, 214 MB IDE	£ 1989
A4000T-040, 6MB RAM, 525 SCSI-II	£ 2289
A4000T-040, 6MB RAM, 1Gb SCSI-II	£ 2589

* Drive not covered by WANG / ICL On-Site Warranty

Other Hard Drive, FPU and Memory Configurations Available - Please Call

FREE WITH ALL A4000s
DELUXE PAINT IV
WORDWORTH V2
PRINT MANAGER

AUDIO PRODUCTS

SUNRIZE AD516 / STUDIO 16

8 Track Stereo, 16-Bit, Better than CD Quality - Direct to Disk Recording, Editing & Playback. Can be used in conjunction with Bars & Pipes Professional and the Digital Broadcaster from Digital Micronics via SMPTE.

£ 1249

SUNRIZE AD1012 / STUDIO 16

4 Track Mono, 12-Bit,Direct to Disk Recording, Editing & Playback. Can be used in conjunction with Bars & Pipes Professional and the Digital Broadcaster from Digital Micronics, via SMPTE.

£ 499

NOW WITH V3.0 SOFTWARE

Please Call For A Full Brochure

HARD DRIVES

A1200 2.5" Internal IDE

80 MB & CABLE	£ 169
127 MB & CABLE	£ 245
170 MB & CABLE	£ 265
250 MB & CABLE	£ 339

Bare SCSI

170 MB SCSI	3.5"	£ 209
240 MB SCSI	3.5"	£ 279
345 MB SCSI	3.5"	£ 375
525 MB SCSI2	3.5"	£ 649
1.0 GB SCSI2	3.5"	£ 925
1.6 GB SCSI2	3.5"	£1159
1.8 GB SCSI2	3.5"	£1209
2.0 GB SCSI2	3.5"	£1799
3.0 GB SCSI2	5.25"	£2149
4.0 GB SCSI2	5.25"	£2699

Ask about drives suitable for Digital Broadcaster 32

A4000 IDE

80 MB IDE 3.5"	£ 119
120 MB IDE 3.5"	£ 179
210 MB IDE 3.5"	£ 219
270 MB IDE 3.5"	£ 239
340 MB IDE 3.5"	£ 329
420 MB IDE 3.5"	£ 399
545 MB IDE 3.5"	£ 575

HARD DRIVE CONTROLLERS

GVP HC8 / A4008 SCSI + RAM A2000 & 4000 £ 129

FASTLANE Z3

SCSI-2 + Upto 256Mb

£325

SEAGATE 2.1Gb BARRACUDA

The Fastest SCSI-2 Hard Drive By Far

(5.8 Mb/s Sustained)

Bare **£ 2,199**

The Fastlane Z3 And Seagate Barracuda Are Suitable For Use With The Digital Broadcaster 32

REMOVABLE DRIVES

"THE BOX 150" BERNOULLI By IOMEGA
150MB SCSI-2 INTERNAL DRIVE £ 459
150MB SCSI-2 EXTERNAL DRIVE £ 549
150MB REMOVABLE CARTRIDGE £ 89
Drives are supplied with 1 FREE Cartridge

OPTICAL DRIVES

FUJITSU 128MB SCSI INTERNAL £ 699
PANASONIC 128MB EXT. + DISK £ 799
128 MB OPTICAL DISK £ 38

DAT TAPE BACKUP

WANGDAT SCSI DAT - 2Gb (Int) £ 929
WANGDAT SCSI DAT - 8Gb (Int) £ 1059

CD ROM DRIVE

TOSHIBA XM4101B SCSI-2 (Int.),Twin Speed, Multi-Session (H/V mount) £ 239

SOFTWARE

REAL 3D V2 New Low Price £ 339
ART DEPT. PRO. V2.5 £ 149
BRILLIANCE £ 125
BARS & PIPES PROFESSIONAL £ 215
MEDIA POINT £ 319
TVPAINT 2 (Picasso / Retina / Harlequin / EGS) £ 185
SCALA MULTIMEDIA 210 (AGA) £ 145
SCALA MULTIMEDIA 300 (AGA) £ 295
OBI 3D Object Convertor £ 99
MULTIFRAME (For ADPRO) £ 75
PRO CONTROL (For ADPRO) £ 65
ASIM CD-ROM FILESYSTEM (V2) £ 59
Other Professional Software Available On Request

MONITORS

MICROVITEC CUB-SCAN 1438 14"
(Multi-sync, 0.28 dot pitch, No Sound) £ 295
MICROVITEC CUB-SCAN 1440 14"
(Multi-sync, 0.28 dot pitch, Digital Memory) £ 399

68881 / 68882 FPU's

68881 20MHz PGA £ 39 **68882** 25MHz PGA £ 59
68882 33MHz PGA £ 99 **68882** 50MHz PGA £ 139
68882 25MHz PLCC - For A4000/030 etc. £ 75
68882 33MHz PLCC - For A4000/030 etc. £ 89
68882 40MHz PLCC - For A4000/030 etc. £ 129

MEMORY SIMM'S

32MB SIMM-32 £1699 **16MB** SIMM-32 £ 799
8MB SIMM-32 £ 349 **4MB** SIMM-32 £ 160
2MB SIMM-32 £ 85 **1MB** SIMM-32 £ 45
1MB SIMM-8 £ 45 **4MB** SIMM-8 £ 165
GVP SIMM-32's **1MB** £ 69, **4MB** £ 195

Since 28th February, The New Number For The
BIG BANG BURGER BAR BBS
Has Been **081 954 9967**

VIDEO PRODUCTS

DIGITAL BROADCASTER 32

This Zorro III card performs all of the major functions of a full, **broadcast quality, ON-LINE, NON-LINEAR digital video** edit suite.
It provides REAL-TIME, FULL MOTION JPEG (50 fields per second) Capture & Compression, direct to hard disk. The video can then be edited and subsequently Decompressed & Played back in REAL-TIME, at 25 fps in broadcast quality, direct to video, laser disk recorder etc.. Also included on the board is full SMPTE timecoding, read & write. The card interfaces with the AD516 Studio 16, 8 track stereo and 4 track mono audio cards from Sunrize Industries to enable full audio (lip sync) to video.. It requires an Amiga 4000 or 4000T with 68040 processor, large SCSI-2 hard drive, and fast SCSI-2 hard drive controller.

Typical System :-
Amiga 4000T-040 (2 +16, 214 Mb HD)
Digital Broadcaster 32 (Zorro III Card)
Fastlane Z3 (SCSI-2 Controller Card)
2.1Gb Fast SCSI-2 3.5" HD (For Video)
Sunrize AD516 / Studio 16 (Audio Card)
525Mb Fast SCSI-2 HD 3.5" (For Audio)
Cub-Scan 1440 Monitor (ForAmiga)
Commodore 1084S Monitor (For Video)
Image Processing Software (ADPRO)
System Configuration & Testing

AVAILABLE NOW

TOTAL SYSTEM = Approx. **£ 11,000** (inc. VAT)
FOR FULL, BROADCAST (Betacam SP) QUALITY, ON-LINE, NON-LINEAR, VIDEO EDITING !
FOR FURTHER DETAILS, PLEASE CALL.

OPALVISION

MAIN BOARD (V.2) £ 399
VIDEO PROCESSOR £ call
VIDEO SUITE £ call
TIME BASE CORRECTOR £ call

GVP SPECTRUM EGS

24-Bit Zorro II / Zorro III EGS Standard Retargettable Graphics Card. For Amiga 1500 / 2000 / 3000 / 4000
SPECTRUM With 1Mb VRAM £ 349
SPECTRUM With 2Mb VRAM £ 399

HARLEQUIN + (NEW Lower Price)

With **4Mb** Vram/double buffered £ 1149

VLab Y/C Real-time digitiser £ 359
Personal SFC Single Frame Controller £ 449
EDITMAN By Syntronix. Edit Controller £ Call
SYMPATICA Single Frame Controller £ Call
RETINA DISPLAY CARD 2Mb £ 379
RETINA DISPLAY CARD 4Mb £ 485

PICASSO II 24-Bit RTG Graphics Card for A1500/3000 & 4000 giving upto 1280 x 1024 resolution displays. With 2Mb VRAM
Now supplied with TVPaint Jr. £ 345
PICASSO II with TVPaint 2.0 £ 489

VIDEO TOASTER 4000 (NTSC)

WITH LIGHTWAVE V3.1 £ 1949
PAL CONVERTOR is available - CALL

SCANNERS

EPSON GT-6500 A4, 24-Bit Colour Flatbed Scanner with ASDG Software & Cable £ 735
GT-8000 as above £ 999

MISCELLANEOUS

BSC MULTIFACE 3 I/O Card (2 Serial Ports and 1 Parallel Port) £105
RENDALE 8802 FMC Composite Genlock £ 175
A570 CDROM £ 95

SYSTEM BUILDING

WE HAVE THE EXPERTISE TO BUILD A COMPLETE SYSTEM FOR YOUR APPLICATION - CALL TO DISCUSS YOUR REQUIREMENTS

SPECIALISTS ?

WE KNOW ABOUT THE PRODUCTS THAT WE SELL, AND ARE HAPPY TO ADVISE YOU.

SERVICE

FOR A PERSONAL SERVICE, AND AFTER-SALES BACKUP THAT IS SECOND TO NONE, LOOK NO FURTHER

DELIVERY CHARGES

Express Small £ 6
Medium £ 7
Economy Small £ 5
Medium £ 6
For large items, please call.

SURCHARGE

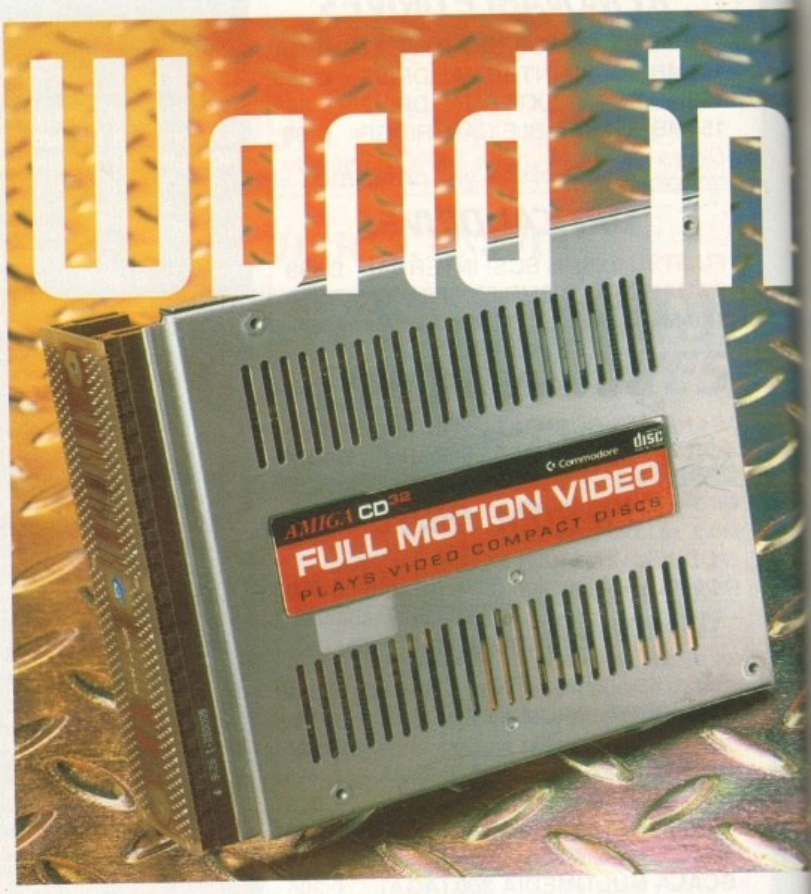
If ordering with ACCESS or VISA, there is a 2.5% surcharge.
No surcharge for DELTA, CONNECT or SWITCH.

HOW TO ORDER

HAVE YOUR DEBIT OR CREDIT CARD DETAILS AT HAND, AND CALL :-
0992 714539
10 - 7 Monday - Friday
Closed Sat & Sunday
BY POST :-
CALL FIRST TO VERIFY PRICE AND AVAILIBILITY, BEFORE SENDING YOUR ORDER TO :-
"WHITE KNIGHT TECHNOLOGY", P.O. BOX 2395, WALTHAM CROSS, HERTS. EN8 7HQ

FMV could herald a whole new age in audio-visual home entertainment

World in



As technology shifts towards the CD, Simon Clays fast forwards to a future where we could be using little shiny discs for everything from games to movies and music

Recently there's been a great deal of confusion at the very mention of FMV. At first it sounds like a hype method to kick-start the sales of CD driven consoles, but on closer examination it could to prove one of the most important innovations for a long while.

Many of you will remember the battle of the video formats at the turn of the 80s, a war that saw young systems like Betamax and Philips 2000 go to early celluloid graves.

Not wishing to repeat such corporate genocide, many of the leading lights of the electrical world have come together to agree a standard format to which they can all comply.

Although Philips were the first company to produce a commercially available system, they too have adjusted their machines to comply with this new standard.

This means that whether you're using a CD32, CDi, 3D0 or a PC with a CD-ROM drive you'll be able to enjoy any Video CD title.

However, it should be noted that the Video CD standard only applies to linear non-interactive software. Games software will still remain exclusive to the system it was for.

Technics have already unveiled three prototype Video CD players at the Consumer Electronics Show held in Las Vegas last January: a mini system with a built-in player,

Since Commodore released its Full Motion Video cartridge, a new world of opportunities has opened up. Digital technology has spawned completely revolutionary forms of entertainment.

Hollywood has just opened its eyes to its new toy and many of the major studios are becoming actively involved in interactive movies.

Now, movie tie-ins really are becoming movie tie-ins. Not only are games including footage from movies, but actors are actually filming extra footage for specific inclusion in games.

Sylvester Stallone has already been filmed against a blue screen for Virgin's conversion of *Demolition Man*.

Lawnmower Man 2 is being developed simultaneously with the computer game licence and incorporates some of the comput-

motion

a portable player with a flip-up LCD screen and a five-disc multi-player.

As a response to these activities the music industry have announced that they will be adopting the system. Picture Music International (part of EMI) have announced their first batch of releases.

The straight reissues are Queen's Box of Flix (three discs); David Bowie's The Video collection; and Pink Floyd's Delicate Sound of Thunder.

Updated titles will see Tina Turner, Iron Maiden and the Pet Shop Boys all undergoing some minor surgery (not before time) before going on sale.

BMG, who fall under RCA's massive corporate umbrella, also plan to release a number of titles. Although Eurythmics is the only confirmed release, at least another three are promised.

Meanwhile, CD32-compatible products from Philips are reaching the shops. Priced at around £16, their current releases include the movies *Patriot Games, Black Rain, Top Gun, Star Trek VI, Naked Gun 2½,* with *Ghost, Fatal Attraction* and *Hunt for Red October* in line for an April release date.

With a million systems expected to be in the home by the end of 1994, even computer software houses are keen to get into the act. It's rumoured that at least 14 of the Manga titles have been signed up, including *Akira, Fist of the Northstar* and the *Dominion* series.

While things are being kept tightly under wraps, an industry insider had this to say:

"We think that the format will attract new users, and one way of attracting them to buying an FMV module for their CD32's is by releasing a range of animated films."

BMG and PMI's Video CD's music titles are being produced by Omnimedia, a company who are more just a little familiar with CD-driven multimedia software.

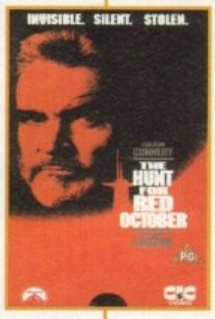
Not only have they been responsible for British Airways interactive CD training manual, but are now gearing themselves towards releasing titles of their own.

First off the production line will be an interactive novel for children. *Treasure Hunt*, by A J Wood, contains many different aspects of FMV technology. Omnimedia's Artistic Director, Yvonne Cavalier, revealed more:

" Treasure Hunt's an interactive book, it's a bit of everything. It'll use a blend of traditional animation in conjunction with original illustrations.

"You basically follow a fairly linear storyline, until you reach a still screen. This will ask you to solve some puzzles which will help reveal the location of the treasure."

A sequel, which works on the same premise, has already started production, and another educational disc called Toy Shop based on the National Curriculum is due for release priced at around the £25.



Invisible. Silent. Stolen. And out on FMV

Interactive software

Seventh Guest

er-generated VR film. However, American companies Media Vision and Hyperbole Studies have taken a joint decision to push the cinema doors a little further open with virtual Cinema.

"The synthesis of the film and the novel", Virtual Cinema is a software engine which places the user in a 360 degree environment with access to the personal thoughts of the characters involved. Using live actors, this interactive software asks you to explore a 3D world, interact on a social level with the characters, and study their personalities and thoughts. The first interactive movie for a home machine will be the Hitchcockian thriller *Voyeur* on the Philips CDi. Starring Robert Culp and Grace Zabriskie, Voyeur gives 65 minutes of live action footage using some 47,000 frames of broadcast quality video.

Some of the biggest names in the movie industry are becoming excited at the potential FMV gives. Syd Mead of *Blade Runner* fame is working on a title called *Cyberrace*, and even Steven Spielberg is now involved on a project called *The Dig*.

Virgin will have the first games to utilise FMV to the full. 7th Guest thrilled PC owners with its graphics long before live footage was added for the up and coming CDi version, and Conspiracy will see Donald Sutherland make his debut in the silicon cinema.

At present, product available for the CD32 is very scarce. But, with the attention the music and movie industries are taking in the 12cm disc, it's quite obvious that CD technology with its massive storage capabilities, isn't a passing phase and is indeed the next celluloid step forward.

What is FMV?

Full Motion Video is made possible through the miracle of Mpeg (Moving Picture Expert's Group). This acronym threw together experts from every industry who felt the desire to create a video reduction system.

The committee was over 200 strong and took just 18 months to devise an internationally agreed standard.

The beauty of digital video is that it manages to turn film into a digital signal, while throwing away 99 per cent of that signal and still producing a picture quality that can rival the best VHS can ever achieve.

When you process film into digital video, you transfer the image into a torrent of electronic computer bits (ones and zeros) that cascade out at a rate of 160 million a second.

To transfer this information to CD means vastly reducing the amount of bits that the system processes down to a more manageable 1.2 million per second – the rate that CD reads digital audio.

However, Mpeg isn't just one process. It is in fact several techniques strung together which acheives the enormous 99 per cent reduction.

The first act is to transfer each frame of the film onto a broadcast-quality Digital Video Recorder, to do this means running the film through a special projector with a built-in camera.

Now in tape form, the information is fed into the Mpeg encoder which is an extremely high powered computer equipped with some extra image grabbing hardware. The computer firstly shrinks the images from broadcast quality down to a more basic quality, somewhere around S-VHS level. This reduces the bulk of the code (around 80 per cent) but still leaves you with an image that looks good on a TV.

REPLICATED

Next the computer images are processed into two entirely different ways. First each picture is looked at as though it were a single image, then each is broken down into a pixel image.

It's at this point that the Mpeg system really begins to come into its own. Normally a computer would write down the position of every dot in each still, Mpeg looks at the differences between pixels and removes replicated pixels.

For example, if a frame contains a picture of a red car, and part of that red car consists of exactly the same pixels. Then the system recognises that they are the same and only needs to keep one copy of this.

On a greater scale, the same technique can be implemented on a frame-by-frame basis. The system is geared to compare areas within frames and recognise repeated pixels.

Mpeg works meticulously until there is high detail and a great deal of rapid movement. This is where the film companies have had to compromise and learn to hide errors.

For instance, when the first clips of *Top Gun* were released they were pretty appalling. Now, the film companies seem to be getting the hang of it, and the production quality exceeds VHS and is moving towards LaserDisc standards.

Harwoods have been established since 1955 providing Computer Systems since 1982. We always emphasise our quality of service which includes facilities that you may be charged for elsewhere...

the harwood Directory

In Derbyshire, Nottinghamshire and by Mail Order...
NATIONWIDE! Always with speedy delivery!

WHY BUY FROM HARWOODS

- FREE DIRECT DELIVERY SERVICE
- FREE WARRANTY COLLECTION *(see right for full details)*
- FREE HELPLINE SUPPORT
- CREDIT & CHARGECARD FACILITIES
- FINANCE FACILITIES AVAILABLE

FREE BUS SPACING SHOWROOM...

WHY NOT TAKE A TRIP OUT TO VISIT US AND COME AND SEE OUR FULL ADVERTISED RANGE, AND MORE! EVERYTHING IS AVAILABLE AT THE SAME COMPETITIVE PRICES (Please see opening times). THERE'S PLENTY OF FREE PARKING CLOSE BY:

We are open...
MON to SAT 9.30am til 5.30pm,
Wednesday 9.30am til 1.00pm

HOW TO ORDER...

BY PHONE: Phone our Order Hotline with your Access, Visa, Mastercard, Connect, Delta, Switch or Lombard Creditcharge Card quoting card number & expiry date (most Dixons, Currys, and other 'store' cards are Lombard Creditcharge and are happily accepted by us) & issue number where necessary (eg. Switch etc)

BY POST: Make cheques, bankers/building society drafts or postal orders payable to GORDON HARWOOD COMPUTERS. (Personal/business cheques take 7days to clear from day of receipt whereupon your order will be despatched). Please send Name, Address, and most importantly if possible, a Daytime Telephone Number along with your order requirements. Please check you are ordering from our latest advertisement before ordering (phone if you require confirmation).

PRICES: Please remember that for example "September issue" magazines may be on sale during July, meaning that prices and offers advertised therein (which may appear up to date), could have been changed (we often have to provide artwork to magazines up to a month before the magazine is on sale). We therefore reserve the right to alter a specific item or pack price (either up or down) in the unlikely event of the cost price we pay changing. Please phone FIRST!

EXPORT: Most items are available at TAX FREE PRICES to non UK residents and service personnel. Please contact us for confirmation of export prices before ordering.

FREE DELIVERY: by Parcel Force (UK Mainland only) OR: SPEEDY NEXT WORKING DAY COURIER SERVICE. Add just £6.95 per major item for guaranteed delivery (or £10.00 for Saturday delivery), UK Mainland most regions. (Despatch normally on day of order or payment clearance). Overseas rates on request.

All listed prices are inclusive VAT (at 17.5%), and there are NO HIDDEN EXTRAS. Prices are correct at time of going to press (Stock details may vary from time to time). Offers and Hardware are subject to availability and to being the latest advertised products, packs and prices. Please note goods are not supplied on a trial basis. E&OE.

AMIGA A1200... Race 'N' Chase Packs

OUR Amiga A1200 Race 'N' Chase Packs are supplied complete with Nigel Mansell's Grand Prix, Trolls and a FREE...
JURASSIC STARTER PACK!
Then you choose the options...

FREE JP Pack worth almost £50 with ALL Amigas! (see details left)

OPTION 1RC - Basic Pack

Basic Amiga A1200 Race 'N' Chase (as detailed above) with your FREE Jurassic Starter Pack...

Option 1RC...£299.95

OPTION 2RC - Basic Pack plus Colour Monitor

Race 'N' Chase Option 1RC as detailed above (including Freebies), Plus... the Superb Philips 15" Pro 2000 Colour Monitor/TV giving you the best of the A1200 with a truly magnificent display and television in one

Option 2RC - at an Amazing Low...£524.95

OPTION 3RC - Colour Monitor and Printer Pack

Race 'N' Chase Option 3RC - As well as the A1200 and Philips 15" Pro 2000 Monitor/TV (as Option 2RC above), we include the great Citizen 240C Colour Printer along with Software and Harwoods comprehensive extras...

Option 3RC - Super all in one Price...£769.95

A1200... Desktop Dynamite Packs

OUR Amiga A1200 Desktop Dynamite Packs are supplied with Dennis, Deluxe Paint IV, Oscar, Print Manager and Wordworth and a FREE...
JURASSIC STARTER PACK!
Then you choose the options...

FREE JP Pack worth almost £50 with ALL Amigas! (see details left)

OPTION 1DD - Basic Pack

Basic Amiga A1200 Dynamite (as above) with FREE Jurassic Pack...

Option 1DD...£349.95

OPTION 2DD - Basic Pack plus Colour Monitor

Desktop Dynamite Option 1DD as detailed above (including Freebies), Plus... the Superb Philips 15" Pro 2000 Colour Monitor/TV giving you the best of the A1200 with a truly magnificent display and television in one

Option 2DD - at an amazing low...£574.95

OPTION 3DD - Colour Monitor and Printer Pack

Desktop Dynamite Option 3 - As well as the A1200 and Philips 15" Pro 2000 Monitor/TV (as Option 2DD above), we include the great Citizen 240C Colour Printer along with Software and Harwoods comprehensive extras...

Option 3DD - Super all in one Price...£819.95

Hard Disk Drive Options...

A1200 HARD DRIVE OPTIONS	A1200 RACE 'N' CHASE OPTIONS			A1200 DESKTOP DYNAMITE OPTIONS		
	Basic Pack OPTION 1RC	Monitor Pack OPTION 2RC	Printer Pack OPTION 3RC	Basic Pack OPTION 1DD	Monitor Pack OPTION 2DD	Printer Pack OPTION 3DD
130Mb	£539.95	£764.95	£1009.95	£589.95	£814.95	£1059.95
170Mb	£549.95	£774.95	£1019.95	£599.95	£824.95	£1069.95
260Mb	£629.95	£854.95	£1099.95	£669.95	£894.95	£1139.95

Shown in the table above are just some of the Hard Drive Options available. Phone us for details of other sizes too.

GREAT REASONS TO BUY FROM HARWOODS...

WHEN THERE ARE SO MANY DEALERS TO CHOOSE FROM WHY SHOULD YOUR CHOICE BE GORDON HARWOOD COMPUTERS?
Well just a few GOOD reasons are listed here...

We have a FREE SERVICE POLICY which includes...
- NEW Replacements for faulty goods (in the first 30 days)
- FREE UK Mainland collection of major hardware units requiring warranty service in the first year (unless on-site warranty is applicable)
- FREE rapid courier return of serviced products
- ACCESS to our ex-directory Customer Technical Helpline

WE AIM TO CONTINUE PROVIDING THE BEST SERVICE IN THE INDUSTRY

FREE JURASSIC STARTER PACK WITH EVERY AMIGA

JURASSIC PARK BY: ocean

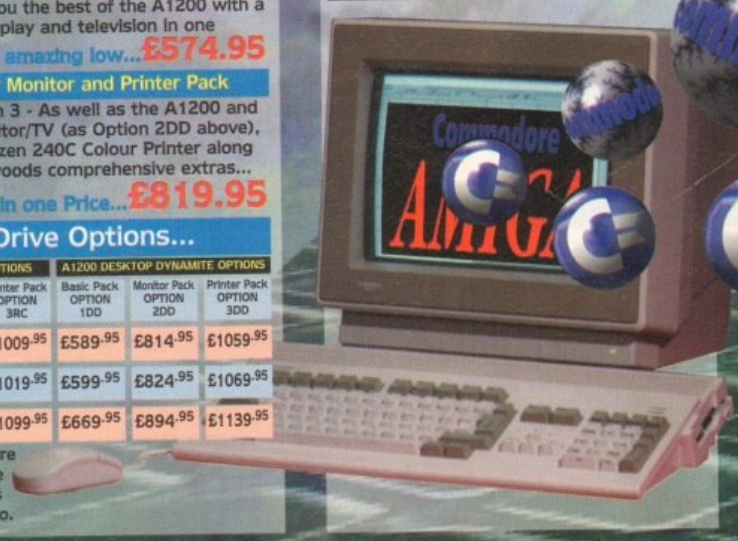
PLUS...
- MOUSE MAT
- DUST COVER
- MICRO SWITCHED JOYSTICK

WORTH ALMOST £50

OPTIONAL LIFETIME WARRANTY PLAN

You can choose to add an Extended Warranty to ANY hardware item from Harwoods - for less than you'd think! Take up to 5 years cover and at the end of that period extend again on an annual basis... Thus, a LIFETIME's PEACE OF MIND. What's more the warranty is fully transferable, enhancing resale values of your equipment! Even available on hardware you may have purchased elsewhere - Phone for details!

REST ASSURED YOU'LL HAVE NO BILLS FOR YEARS TO COME!!!



STOP PRESS...STOP PRESS...STOP PRESS...

JUST LOOK BELOW AND SEE HOW TO MAKE YOUR A1200 THE 'ULTIMATE PERFORMER'

AMIGA SYSTEM AND CONFIGURATION TESTED...	MIPS
Standard Amiga A500-600-1500-2000 (unexpanded)	0.55
Standard Amiga A1200 (unexpanded)	1.33
Amiga A1200 & Blizzard 1204 4Mb RAM Card (AMF Gold Award)	2.94
Amiga A1200 & Blizzard 1220 4Mb & 28Mhz 68EC020 Accelerator	5.05
Amiga A1200 & Blizzard 1230 4Mb & 40Mhz 68EC030 Accelerator	7.06
Standard Amiga A4000 '030 (2Mb Chip RAM, 4Mb Fast RAM)	4.43

All the above tests were performed using SysInfo Version 3.18

SEE PAGE 3 FOR FULL DETAILS OF THE AMAZING BLIZZARD RANGE OF PRODUCTS TO SUIT YOUR AMIGA AND AT A PRICE TO SUIT YOUR POCKET TOO!

GREAT VALUE POWERPLAY GAMES PACK

HARWOODS EXCLUSIVE POWERPLAY GAMES PACK

GREAT BUNDLE OF 18 EXTRA GAMES TO ADD TO YOUR AMIGA. YOU WON'T NEED TO BUY MORE FOR AGES!!!

Xenon 2 Megablast*, Stir Crazy, TV Sports Football, Hostages, Jumping Jackson, Bubble Plus, Bloodwych, Tin-Tin on the Moon, Krypton Egg, Purple Saturn Day, Eliminator*, Skychase, Safari Guns, Lombard RAC Rally, Captain Blood, Strike Force Harrier*, Sky Fox II and Lancaster

only...**£19.95** *Not compatible with A1200/3000/4000

AMIGA CD32 WITH GREAT SOFTWARE

NEW...NEW...
CD32 DANGEROUS STREETS PACK
including great games...
DANGEROUS STREETS
DIGGERS
OSCAR
WING COMMANDER

ONLY... **£299.95**

AMIGA MONITORS FOR EVERYONE

LOWEST COST COLOUR MULTISYNC AVAILABLE!!!

MICROVITEC AUTOSCAN 1438
14"Colour Hi-Resolution MultiSync

.28 Dot Pitch Colour Hi-Resolution Monitor (requires separate speakers). This one is ideal for ALL Amigas, ST's, PC SVGA, Acorn etc., Conforms to the stringent Swedish MPR2 ClassB emission standards. A FANTASTIC 14" DISPLAY AT A FABULOUS PRICE...

FANTASTIC VALUE... **£299.95**

PHILIPS PRO 2000 15" COLOUR SUPER-RES MONITOR/TV

The best of both Worlds - A Quality Computer Display and fully featured FST High Definition TV in one! Infra red, FastText Teletext, Loop Aerial, Headphone Socket complete with FREE leads to your Amiga!

a Brilliant Combination... **£239.95**

COMMODORE 1084S COLOUR

14" STEREO COLOUR Including all Leads, Dust Cover etc. An ideal first time monitor at a great low price...

Limited Stocks **£199.95**

COMMODORE 1942 COLOUR

14" COLOUR STEREO Inc. Leads, Dust Cover etc. (for A1200's/3000's/4000's) .28 Dot Pitch and at a new lower price

Great Value **£349.95**

AMIGA VIDEO IMAGING PRODUCTS

ROMBO VIDI 12 New Version 2.0	£74.95
ROMBO VIDI 12 Sound and Vision	£94.95
ROMBO VIDI 12 Real Time	£169.95
ROMBO VIDI 24 Real Time	£239.95

VALUE PACKED AMIGA PRINTERS

ALL our printers are supplied for immediate use including cable, paper and labels FREE OF CHARGE! Dot Matrix models also come with a tailored dust cover FREE. Specific Amiga driver software is included with EVERY printer FREE (eg. with Citizen this is the excellent Print Manager Version 2 driver).

CITIZEN COMPUTER PRINTERS

New Colour

Printer just announced with...

EASYSTART SOFTWARE

CITIZEN PRINTER RANGE...

120D+ - 9Pin Mono	£119.95
Swift 90 - 9Pin Mono	£149.95
Swift 90 - 9Pin Colour	£164.95
Swift 200 - 24Pin Mono	£189.95
Swift 200 - 24Pin Colour	£199.95
Swift 240 - 24Pin Mono	£209.95
Swift 240 - 24Pin Colour	£234.95

REMEMBER THAT ALL CITIZEN PRINTERS HAVE A TWO YEAR WARRANTY

NEW CITIZEN ABC PRINTER...

"A Printer for Everyone that can be Used by Anyone". Compact, easy to use new Citizen. Ideal for first time buyers but with capabilities to grow as your needs increase. Superb 24Pin clarity in mono (or colour with an optional kit) on standard cut sheet paper (50sht feeder supplied as standard), sprocketed paper, overhead slides, envelopes etc. and very quiet too!

Citizen ABC 24 Pin Mono Printer **£149.95**

Colour Kit for the above **£24.95**

NEW CITIZEN PRINT MANAGER VERSION 2...

Supplied FREE with all Citizen Printers! Higher printing resolutions and more control of your Citizen. Makes all your printing EASIER to perform. Please ask us if you require full details.

star MICRONICS

Kits available for Sign and 'T' Shirt Printing

STAR DOT MATRIX RANGE...

LC100 - 9Pin Colour	£149.95
LC24-30 - 24Pin Colour	£229.95
LC24-300 - 24Pin Colour	£289.95

STAR LASER RANGE...

LS-5	£579.95
LS-5EX	£679.95
LS-5TT PostScript	£949.95

STAR THERMAL...

SJ144 COLOUR HQ that can even print out both sign and 'T' Shirt Designs using special kits. Ask for full details **£459.95**

Canon

CANON INKJET RANGE...

BJ10sx Mono - 360dpi £199.95
BJ200 Mono - 360dpi, £249.95
250cps with auto sheet feed
BJ230 Mono - 360dpi, £329.95
248cps, A4/A3, ASF
BJC600s Colour - 360dpi £549.95
Paper, OHP, Envelopes, 4 Colour CMYK, 240/170cps, 8 Fonts, 65K

Hewlett Packard hp

HP INKJET RANGE...

310 DESKJET - Mono	£229.95
310 DESKJET - Colour	£264.95
510 DESKJET - Mono	£264.95
500 DESKJET - Colour	£339.95
550 DESKJET - Colour	£524.95

EXTRAS FOR YOUR PRINTER

WE ALSO STOCK A COMPREHENSIVE RANGE OF ORIGINAL MANUFACTURERS' ACCESSORIES, PERIPHERALS AND CONSUMABLES FOR CANON, CITIZEN, HEWLETT PACKARD AND STAR PRINTERS. See details overleaf or phone us!

gordon harwood computers
Order Hotline 0773 836781
Dept. ACO/K1 NEW STREET ALFRETON DERBYSHIRE DE55 7BP
Facsimile: 0773 831040

Harwoods have been established since 1955 providing Computer Systems since 1982. We always emphasise our quality of service which includes facilities that you may be charged for elsewhere...

the harwood Directory

In Derbyshire, Nottinghamshire and by Mail Order...
NATIONWIDE! Always with speedy delivery!

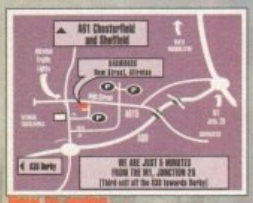
WHY BUY FROM HARWOODS?

- FREE DIRECT DELIVERY SERVICE
- FREE WARRANTY COLLECTION *(see page 7 for full details)*
- FREE HELPLINE SUPPORT
- CREDIT & CHARGECARD FACILITIES
- FINANCE FACILITIES AVAILABLE

VISIT OUR SPACIOUS SHOWROOM...

WHY NOT TAKE A TRIP OUT TO VISIT US AND COME AND SEE OUR FULL ADVERTISED RANGE, AND MORE! EVERYTHING IS AVAILABLE AT THE SAME COMPETITIVE PRICES (Please see opening times). THERE'S PLENTY OF FREE PARKING CLOSE BY:

We are open... MON to SAT 9.00am 'til 5.30pm.



HOW TO ORDER...

BY PHONE: Phone our Order Hotline with your Access, Visa, Mastercard, Connect, Delta, Switch or Lombard Creditcharge Card quoting card number & expiry date (most Dixons, Currys, and other 'store' cards are Lombard Creditcharge and are happily accepted by us) & issue number where necessary (eg. Switch etc)

BY POST: Make cheques, bankers/building society drafts or postal orders payable to GORDON HARWOOD COMPUTERS. (Personal/business cheques take 7days to clear from day of receipt whereupon your order will be despatched). Please send Name, Address, and most importantly if possible, a Daytime Telephone Number along with your order requirements. Please check you are ordering from our latest advertisement before ordering (phone if you require confirmation).

PRICES: Please remember that for example "September issue" magazines may be on sale during July, meaning that prices and offers advertised therein (which may appear up to date), could have been changed (we often have to provide artwork to magazines up to a month before the magazine is on sale). We therefore reserve the right to alter a specific item or pack price (either up or down) in the unlikely event of the cost price we pay changing. Please phone FIRST!

EXPORT: Most items are available at TAX FREE PRICES to non UK residents and service personnel. Please contact us for confirmation of export prices before ordering.

HOW DELIVERY: by Parcel Force (UK Mainland only) OR: SPEEDY NEXT WORKING DAY COURIER SERVICE. Add just £6.95 per major item for guaranteed delivery (or £10.00 for Saturday delivery), UK Mainland most regions. (Despatch normally on day of order or payment clearance). Overseas rates on request.

All listed prices are what YOU PAY, and there are NO HIDDEN EXTRAS. Prices are correct at time of going to press (Pack details may vary from time to time). Offers and Services are subject to availability and to being the latest advertised products, packs and prices. Please note: goods are not supplied on a 'trial' basis.

E&OE.

AMIGA 2.5" INTERNAL HARD DRIVES

FREE ESSENTIAL HARD DRIVE MANUAL WITH ALL OUR INTERNAL DRIVES

WHY NOT UPGRADE YOUR AMIGA A1200 TO TODAY'S SPECIFICATIONS BY ADDING SOME REAL STORAGE SPACE. IT CAN BE FAR EASIER THAN YOU THOUGHT WITH OUR FREE MANUAL!

Our A1200 Hard Drives are all high quality Officially Specified 2.5" IDE Lower Power Consumption units NOT alternative 3.5"drives which the computer was not designed to use. All units are recognised makes (eg.Conner, Seagate, Western Digital etc.). and are supplied with driver software, fitting kit, full instructions, back up/repair utility software and a Full 1 Year Warranty. Remember you also receive a copy of our Hard Drive manual which is an invaluable source of information.

FITTED OR SELF FIT AMIGA HARD DRIVES

YOU ONLY PAY £25 FOR A HARWOODS ENGINEER TO FIT YOUR DRIVE FOR YOU and you get...

HARD DRIVE CAPACITY➤	130Mb	170Mb	260Mb
SELF FIT PRICE	£229.95	£244.95	£309.95
FITTED PRICE	£254.95	£269.95	£334.95

1. Speedy collection of your Amiga
2. Fitting by experienced technicians
3. Formatting with Workbench installation
4. Hard Disk configuration including installation of back up and repair utility software
5. FULL 12 month HARWOODS GOLD warranty for BOTH your new Hard Drive AND your existing computer! (see our "Gold Service")
6. Courier delivery back to you.

NO ONE ELSE OFFERS ALL THIS... you will normally only get warranty cover for the new Hard Drive NOT the whole computer!

Other Hard Disk Sizes may be available, phone for details. NB. although smaller sizes (eg 40 & 60Mb.) are still advertised, they're not produced in large quantities if at all. Future repair/replacement parts may be a problem. We don't therefore recommend them

AMIGA EXTERNAL HARD DRIVES

Now you can get an EXTERNAL Hard Drive that simply plugs into the PCMCIA slot of your Amiga A1200 and still retains its FULL Commodore Warranty!

THE EASY TO FIT ANSWER TO HARD DISK UPGRADES THAT FEATURE...

ABS Casing styled to match your A1200
2Mb./sec FAST Transfer Rates
Independent Power Supply
Installation Software and Manual

ALL Overdrives from Harwoods are pre-formatted, fully tested and ready to go!

Capacity	170Mb	212Mb	256Mb	270Mb	340Mb	420Mb	540Mb
PRICE	PHONE	£329.95	£344.95	£364.95	£399.95	£484.95	£629.95

PLEASE PHONE FOR OTHER HARD DRIVE SIZES/PRICES!

AMIGA EXTERNAL FLOPPY DRIVES

3.5" EXTERNAL DRIVES...

NEW... Amitek 3.5", £62.95
built in antivirus checker and free disk head cleaning kit

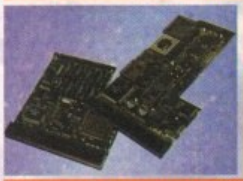
Cumana 3.5", throughport, £59.95
long cable, free head cleaner

PowerXL High Density 3.5", £99.95
1.7Mb. capacity, free head cleaning kit

FOR TOTAL PEACE OF MIND TAKE ADVANTAGE OF OUR LOW COST EXTENDED WARRANTIES

See Page 2 for extended warranties

BLIZZARD MEMORY AND ACCELERATOR BOARDS



BLIZZARD BOARDS

NOW YOU CAN ACHIEVE A PERFORMANCE INCREASE OF OVER 5 TIMES!

BLIZZARD 1220/4 TURBO MEMORY

Even more powerful than its predecessor (which was given the coveted Amiga Format Gold Award). JUST LOOK AT THE SPECIFICATION..

1. 4Mb AUTO-CONFIGURING 32Bit FAST RAM as standard (with an option of a further 4Mb to a total of 8Mb).
2. Integrated Clock Speed Doubler to run the FAST RAM at 28MHz giving overall performance increase of up to 300% compared with a standard Amiga A1200
3. Integral Battery-Backed Real Time Clock
4. Board may be disabled WITHOUT being removed for full game compatibility
5. Sockets for Maths Co-Pro (FPU) and Crystal-68881 or 68882 up to 40MHz speed.
6. Retains CBM on-site warranty for computer
7. Easy to fit in computers Expansion Trapdoor
8. Latest SMT (surface mounted technology)
9. Full 12 Months Warranty

ALL FOR A PRICE MANY WOULD CHARGE FOR A MEMORY BOARD £199.95

BLIZZARD 1220/4Mb BOARD	£199.95
4Mb RAM EXPANSION (Blizzards own)	£TBA
33MHz. FPU MATHS CO-PROCESSOR	£79.95

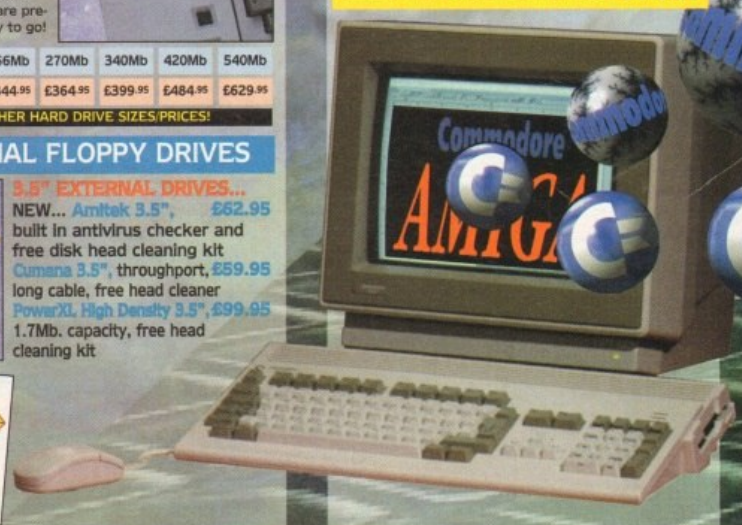
BLIZZARD 1230 TURBO ACCELERATOR

From the makers of the acclaimed Blizzard 1200 RAM Board comes a great A1200 Accelerator...

1. 400-500% performance increase on all applications (when any on board RAM is fitted)
2. Optional fast (up to 10Mb/sec) DMA SCSI-II interface for CD ROM etc. (CDTV, ISO-9660 Formats), Removable/Drives (Syquests Bernoulli etc) as used on Macintosh etc.
3. 40MHz 68EC030 Processor
4. Up to 50MHz 68882 PLCC or PGA FPUnit (Maths Co-Pro)
5. Up to 64Mb of 32-Bit RAM using standard 72 Pin SIMMS
6. Battery backed real time clock
7. Easy trap door installation. Does NOT void warranties
8. No software required, just plug in and go!

BLIZZARD 1230 TURBO (0Mb.)	£244.95
1Mb. RAM Expansion, 32Bit SIMM	£49.95
4Mb. RAM Expansion, 32Bit SIMM	£149.95
33MHz. FPU Maths Co-Processor	£79.95

BUY ALL THREE TOGETHER FOR JUST £449.95



AMIGA RAM (MEMORY) UPGRADES

Upgrade your Amiga easily...

A500 0.5Mb Trapdoor U/G with Clock	£32.95
A500+ 1Mb Trapdoor U/G with Clock	£39.95
A600 1Mb Trapdoor Upgrade	£47.95
A600/1200 PCMCIA Upgrades...	
2Mb for Smart Card Slot	£119.95
4Mb for Smart Card Slot	£174.95

GREAT SUPRA PRODUCTS

A500/500+ TURBO 28MHz ACCELERATOR BOARDS

Compatible with ALL A500's & A500Plus (A1500/2000 versions, ask for details)...

1. Plugs into sidecar/expansion slot A500/500+
2. Speeds up Amiga - up to 4 X NORMAL speed!
3. Throughport for RAM/Hard Drive Expansion etc.

Amiga MUST have some FAST RAM (only standard A500 Plus machines do not). Any sidecar or GVP HD RAM already fitted is FAST RAM.

A1200 Performance at only...

£129.95

SUPRA AMIGA FAX/DATA MODEMS

14400 FAX MODEM V.32bis
Transmit and receive faxes and data at up to 14400bps. Amiga cable and modem to modem COMMS software included. Fax software available separately. **£159.95**

FAX PLUS MODEM V.23bis
Transmit and receive faxes at 9600/4800bps and data at 2400bps. Amiga cable and modem to modem COMMS software included. Fax s/w available separately. **£109.95**

SPECIAL OFFER... GP FAX SOFTWARE is required for either of the above to allow transmission and receipt of faxes... ONLY £49.95

FASTLANE Z3 AMIGA SCSII INTERFACE

THE PERFECT POWER ADD ON FOR ANY CBM AMIGA A4000 USER!!!

Lightning FAST Hard Disk access for all A4000 users. The only IDE answer!

1. Fast (upto 10Mb/sec) DMA SCSI-II Interface for CD ROM etc. (CDTV, ISO-9660 Formats), Optical/Removable Drives (Syquests etc) as used on Apple Macintosh etc.
2. Expandable up to 64Mb of 32-Bit Fast RAM
3. Requires no Buster Chip upgrade!
4. Compatible with existing 4000's
5. 4 x 32-Bit SIMM Sockets

Exceptional Value at Only... £329.95

FANTASTIC AMIGA ACCESSORIES

AMIGA SOUND & MUSIC

[illegible]	£29.95
NEW Technosound Turbo 2 Sampler	£44.95
Miracle keyboard	£249.95
Music X full Vers 1.1	£24.95
Midi Interface Sport complete with cable	£24.95
ZYFI Stereo Speakers	£39.95
ZYFI Pro Stereo Speakers	£54.95
Stereo Master	£29.95
Deluxe Music 2	£99.95
Megiosound	£29.95

ALFA DATA MICE

HQ Microswitched MEGA MOUSE	£12.50
HQ Microswitched 400dpi Resolution MEGA MOUSE	£13.95
HQ Microswitched MEGA MOUSE & Mouse Mat/Holder	£16.95
High Quality micro-switched Optical mouse	£28.95
Alpha Data Mouse Pen	£32.95
HQ Microswitched Trackball	£29.95
Auto Mouse/Joystick Switcher	£17.95

SCANNERS & GENLOCKS

Power Mono V4.0 Hand Held Scanner	£127.95
Epson GT6500 Flat-bed Scanner	£839.95
Epson GT8000 Flat-bed Scanner (inc. Art Dept. Professional)	£1179.95
Art Dept. Pro - existing scanner owners...	£124.95
Rendale 8802 Genlock	£179.95
Rocgen Genlock	£149.95

AMIGA JOYSTICKS

Zipstick Autofire	£11.95
Python 1M	£10.95
The 'BUG' Microswitched	£14.95
Konix Speedking Autofire	£12.95
Konix Speedking Analog	£14.95
Gravis Game Pad	£19.95
Full range of Quickjoy and other makes stocked	Phone!

VALUE BLANK DISKS

10 TDK 3.5" DS DD	£7.95
50 TDK 3.5" DS DD	£32.95
10 TDK 3.5" DS HD	£10.95
50 TDK 3.5" DS HD	£49.95
Certified Bulk Disks with labels:	
10 with library case	£6.95
50 Disks - only...	£26.95
100 Disks - only...	£39.95
250 Disks - only...	£94.95
3.5" Disk Head Cleaner essential for reliable loading	£2.95

AMIGA WORKSTATIONS

RSD Control Centre & Monitor Plinth with shelf:

For Amiga A500	£47.95
For Amiga A600	£39.95
For Amiga A1200	£47.95

MOUSE MECHANIC TOOL

Universal no fluid mouse cleaning tool. Use over and over! £4.99 +50p p&p

WE'VE ONLY SHOWN A SMALL SELECTION OF AMIGA ACCESSORIES HERE. WE'VE LOTS MORE IN STOCK!!!

AMIGA BOOKSHOP

ABACUS BOOKS... Always in stock Please phone us for keen prices!

Amiga 1200 Insider Guide	£14.50
Amiga A600 Insider Guide	£14.50
Mastering Amiga Assembler	£21.95
Mastering Amiga Beginners	£16.50
Mastering Amiga Workbench	£16.50
Mastering Amiga Dos V2 Vol.1	£19.50
Mastering Amiga Dos V2 Vol.2	£19.50
Mastering Amiga Dos V2 Vol.3	£19.50
Mastering Amiga AMOS	£16.50
Mastering Amiga AREXX	£16.50
Mastering Amiga System	£24.95
NEW!!! A1200 Next Steps	£14.50
NEW!!! A1200 Beginners Pack 2 Books, Video & Tutorial Disks	£37.95

AMIGA SOFTWARE BARGAINS

WE HAVE LISTED JUST A SELECTION OF OUR AMIGA SOFTWARE. WHY NOT ASK US TO QUOTE A PRICE FOR ANYTHING NOT LISTED YOU MAY BE SURPRISED AT OUR GREAT PRICES!

AMIGA WORD PROCESSING AND PUBLISHING

Pen Pal V1.5	£54.95
Final Copy II Release 2-AGA	£69.95
NEW...Final Writer	£114.95
The Publisher	£39.95
Professional Page V4.1	£129.95
Pagesetter III	£47.95
Wordworth 2 - AGA	£99.95
Softfaces 1 to 4 (for FCII)	£39.95
Softclips 1 to 4	£29.95
Softwood ProperGrammar 2: (Grammar & Spelling checker, for ALL Amiga Word Proc.)	£39.95

INTEGRATED AMIGA TITLES AND DATABASES

Mini Office FEATURING... Word Processor, Spreadsheet, Database and Disk Manager... FULLY INTEGRATED!	£39.95
Superbase Personal 2	£29.95
Superbase Personal 4	£114.95

CAD AND DRAWING SOFTWARE FOR THE AMIGA

X-CAD 2000 NEW Lower Prices	£87.95
X-CAD 3000	£234.95
Art Expression	£144.95
Expert Draw	£49.95

VIDEO SOFTWARE FOR AMIGA CREATIVITY

Scala 500 Home Titler	£74.95
Scala Professional	£177.95
Scala MM202	£289.95
EditMate	£194.95
Broadcast Titler 2 - SVGA	£174.95

AMIGA PRODUCTIVITY SOFTWARE

GB Route Plus	£36.95
Turboprint Pro 2.0	£34.95
Mavis Beacon Teaches Typing 2	£22.95
TypeSmith	£119.95
System 3E	£34.95
Personal Finance Manager	£34.95
Arena Accounts	£94.95
Disk Expander	£32.95

AMIGA ANIMATION AND GRAPHICS SOFTWARE

Deluxe Paint 4.1	£64.95
Deluxe Paint 4 (AGA)	£74.95
NEW... Caligari	£97.95
3D Construction Kit	£36.95
Adorage Vers. 2	£87.95
Vista Pro 3	£54.95
Art Department Prof. V2.5 NEW	£149.95
DCTV Composite Video *(24-Bit Graphics System suitable for PAL system TV)*	£349.95
Morph Plus	£149.95
Real 3D Classic	£74.95
Real 3D 2	£379.95
Brilliance	£147.95
Pixel 3D Professional Plus	£149.95
Animation Workshop	

AMIGA DEVELOPMENT AND UTILITIES SOFTWARE

Quarterback V6	£59.95
Quarterback Tools Deluxe *(Advanced Disk/File Management)*	£99.95
PC Task - PC Emulator	£37.95
Cross DOS	£34.95
Easy Amos	£24.95
Amos The Creator	£36.95
Amos Compiler	£21.95
Amos 3D	£25.95
Amos Professional	£36.95
Amos Professional Compiler	£24.95
Blitz Basic 2	£54.95
New SAS Lattice C V6.5	£269.95
Devpac 3	£52.95
Directory Opus V4	£49.95

AMIGA EDUCATIONAL SOFTWARE

AMIGA FUN EDUCATIONAL SOFTWARE FOR ALL AGES

'Micros' up to GCSE Standards Micro Science - to GCSE	£18.95
Micro Maths - to GCSE	£18.95
Micro English - to GCSE	£18.95
Micro French - to GCSE	£18.95
Micro Spanish - to GCSE	£18.95
Micro German - to GCSE	£18.95
PHONE about the "Fun School" range	
Compendium Six - 6 great titles that deal with a number of subjects to help your children have fun whilst learning a great deal	£27.95

PHONE US FOR GAMES TITLES!!!

PRINTER ACCESSORIES/CONSUMABLES

CITIZEN COMPUTER PRINTERS

9/24Pin, 80Column Colour Kit (not 124)	£37.95
24Pin, 32K RAM Expansion (not 200/240)	£13.95
24Pin, 32K RAM Expansion for 200/240	£19.95
24Pin, 128K RAM Expansion (not 200/240)	£32.95

	MONO	COLOUR
120D RIBBON	£3.95	NONE
90/C RIBBON	£3.95	£15.95
24/200/240 RIBBON	£4.45	£15.95

AUTO SHEET FEEDER SPECIAL PRICE... All 80 Columns Models (Please state type when placing order) £84.95

STAR MICRONICS

	MONO	COLOUR
LC10/20/100 RIBBON	£3.95	£5.95
LC200 RIBBON	£5.95	£10.95
LC24/200 RIBBON	£6.25	£12.45
LC24-30 RIBBON	£8.95	———
SJ48 INKJET CARTRIDGE	£15.95	NONE
SJ144 INKJET CARTRIDGE	£10.95	£12.95

AUTO SHEET FEEDERS: All 80 Column Models... (Specify type when ordering) £84.95

Canon

INKJET CARTRIDGES:

BJ10ex/sx*	£15.95	BJ800-Black#	£16.95
BJ200/230§	£15.95	BJ800-Cyan#	£21.95
BJ600-Black	£6.95	BJ800-Magenta#	£21.95
BJ600-Cyan	£8.95	BJ800-Yellow#	£21.95
BJ600-Magenta	£8.95	(Also for... *Apple StyleWriter I... # Apple Colour... § Apple StyleWriter II)	
BJ600-Yellow	£8.95		

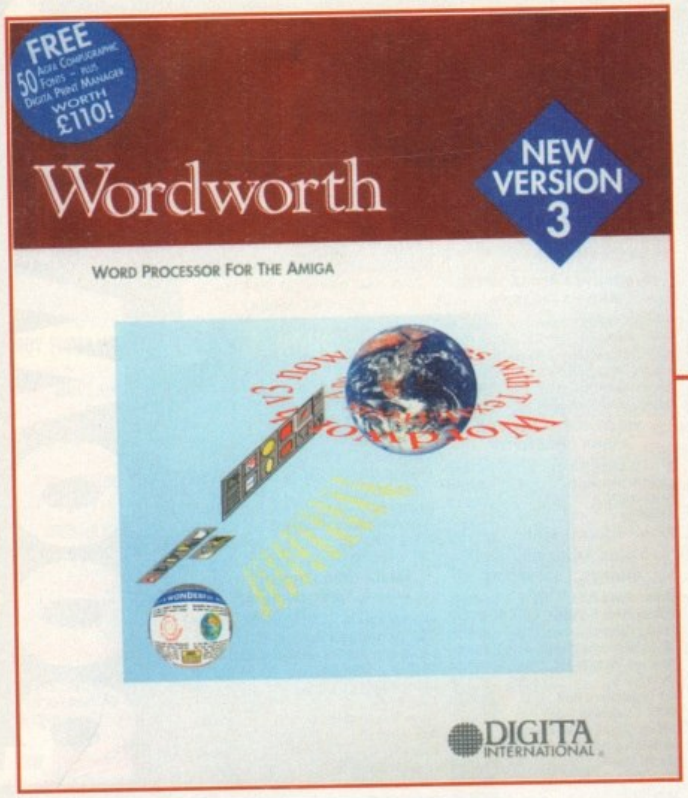
SHEET FEEDER SPECIAL PRICE... BJ10sx in White or Black to match your printer £54.95

INKJET PRINTERS

	MONO	COLOUR
INKJET CARTRIDGES:		
Deskjet/Deskwriter	£24.95 (DoubleLife)	£27.95
Paintjet	£21.95	£27.95
PAPER/TRANSPARENCY FILM:		
Single Sheet		£18.95
Z-Fold		£20.95
Transparency Film (50 Sheets)		£49.95

SHEET FEEDER SPECIAL PRICE FOR THE HEWLETT PACKARD HP 310 PRINTER £49.95

gordon harwood computers
Order Hotline 0773 836781
Dept. ACO/K1 NEW STREET ALFRETON DERBYSHIRE DE55 7BP
Facsimile: 0773 831040



Digita's Wordworth 3 claims to be the number one Amiga word processor, and has a hatful of new features to reinforce the argument. Stevie Kennedy places it under scrutiny

A word

Since the release of Wordworth 2, the Amiga word processor market has been moving forward at a fair old pace, and competition from Softwood's Final Copy and Final Writer packages has made the tussle for top spot an entertaining spectator sport.

In response to Final Writer, version two of which we'll be examining next month, Digita have come up with Wordworth 3 and a host of new design and layout features.

Always quite strong on the pure word-crunching front, Wordworth has in the past suffered by comparison to Softwood's packages in the design and graphics fronts.

Lack of integral drawing functions and a general sluggishness when handling any graphics containing more than 16 colours severely restricted the program's use as a DTP or layout tool, and most of the new features found in v3 have been targeted at this weakness.

As a package, the new box contains a bonus set of official Agfa Intellifonts, 50 in all, and Digita's version of Wolf Faust's Print Manager program, which you may remember seeing in its shareware clothes on a recent *AC* CoverDisk.

This easy-to-use print spooler coupled to a respectable list of high quality fonts makes for a solid and useful freebie, and compares well to the extras offered by other packages.

The program uses Commodore's installer and continues to offer floppy disk installation, though using such a complex package from floppies could lead to marital breakdowns or worse. As an aid to those stuck with floppies or who have precious little hard drive space, minimum and custom configurations are also offered.

> As a bonus, those with colour output in mind can have the text start in one colour and gradually change to another for a gradient effect

Custom installation is the most useful of the two, and allows the user to specify which loader and saver modules will be installed. For example, if you had no plans to use the TrueType font format, a mainly Mac and PC format which Wordworth 3 now supports, you needn't install the filter which enables the program to read these fonts.

MODULES

By carefully selecting which document, font, and graphic import modules to install, it is possible to save quite a bit of space, though minimum installation is probably still best for those restricted to floppy drives.

If fully installed, be prepared to see Wordworth 3 gobble up about 3Mb of hard drive space, and another 4Mb if all 50 Intellifonts are copied to hard drive.

Once installed and the program has been serialised, one's first sight of the new screen layout can come with a hint of *déjà vu*, so similar does it appear to Final Writer.

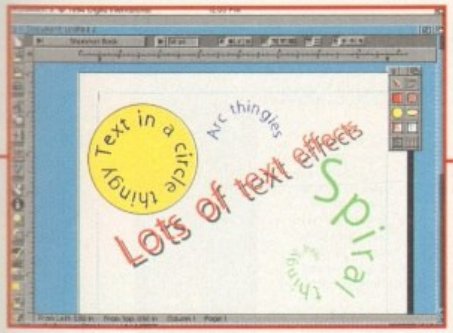
A bank of colourful and very neatly drawn buttons down the left-hand side of the screen and the new ruler with tools for font, justification, and text styles gives Wordworth 3 a very snazzy modern look.

Pages are represented, complete with drop shadow, as sheets on a larger desktop, across which the user can scroll if a document has more than one page. Documents can be set up so that pages appear sequentially one below the other in the usual style, or four across to accommodate double-sided pages and brochure or magazine-style layout.

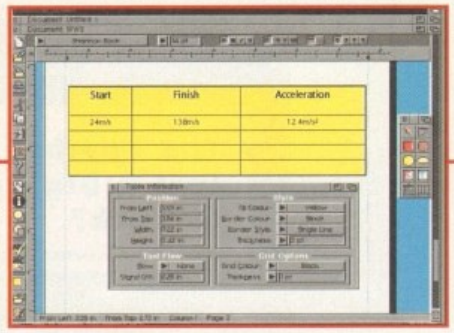
When four across is the chosen display method, jumping from one page to the other can be achieved by using the scroll bars to move left and right, a method which is very useful when editing a double page spread, though not nearly as useful as the excellent variable zoom.

This new feature offers a number of viewing magnifications, from 25 to 400 per cent, with every setting in between at the user's discretion. In other words, no matter which font, screen mode, or page size is used, there is always a view magnification which fits the document being edited, and this is a great improvement over Wordworth 2. Another very useful tweak is the removal of the text style (bold, italic,

Text frames add a great deal of flexibility to page layout, and make proper headlines possible



Text effects can often be frivolous, but their inclusion gives the package more strength in design areas



The new tables feature could have been more advanced, but is very useful in reports and other documents

Floating tool boxes mean that quickly adding a number of design elements needn't involve lots of menu access

underline) and justification commands from the left edge to the top ruler bar where they can be found on most modern packages.

They are joined there by an all-new pair of drop down menus for font and font size, which make choosing a font much easier and quicker than before.

Drop down menus (or lists) are an all-round and consistent design approach for Wordworth 3, and can be found wherever there is a choice of more than one item from a requester or gadget, but the font selection list is easily the most useful application of the lot.

Rather than use a separate requester to make a time-consuming search through your fonts, all those that Wordworth 3 will use can be found in the drop down list, from where a new font is easily selected.

The new design and drawing tools are many and varied, some more useful than others, but all are welcome additions to a modern word processor. They are grouped loosely under the title of Objects, including all structured drawing tools, text effects, and tables. Of most use in page layout and as an aid to design, though, is the new text frame feature. Creating an object can be accomplished either by using the Object menu or summoning the floating object tool box by clicking on the appropriate button from the button strip. Choosing the text frame icon and dragging a box out on screen places a blank box of any size anywhere on-screen.

A huge advantage with the Wordworth 3 text frames is that they can contain any number of lines of text, so proper headline-style boxes are possible, unlike the more restrictive Final Writer text frames.

In addition, each frame can have multiple columns and any fill, border, and font styles available to normal text on the page, so that a complete document can be built out of them. This flexibility puts Wordworth 3 firmly into the DTP arena, and though it's still not up to the likes of PageSetter 3, there isn't enough difference when creating most documents to warrant the user owning both packages. For a great many simple and some not-so-simple document types, Wordworth 3 would be perfectly adequate.

Also brand new is the extensive text effects option, capable of some weird results which may or may not be useful depending on just how wacky your page layout requirements are. In a similar manner to text frames, text effects are added as objects and have their own requester which controls the final effect.

When the frame is first placed, a quick double click reveals the requester, into which the user types the text to which an effect is to be applied, then selects from one of five effects, line, circle, arc, spiral in, and spiral out. A selection of presets is available for quick formatting, but there's plenty of scope for experimentation.

All effects frames can be rotated to the exact angle of the user's choosing, and shadows can be added with their offsets also controlled to the last millimetre.

As a bonus, those with colour output in mind can have the text start in one colour and gradually change to another for a gradient effect, and if this isn't enough, the individual letters can be set at a specific rotation from the baseline.

Though just a little bit dinky and of limited use in most documents, the text effect feature is very handy when creating a letterhead, fax header, or other layout in which a logo of some sort is required. Even if not used, it is great fun to play around with.

TABLES

The last new feature available as an object is the table generator, with which users can quickly create a simple table of a user-defined number of columns and rows.

Again, there is a dedicated requester for the table feature, controlling fill colour, text flow around the table, and colour and weight of the lines used to draw it.

No settings are offered for a table heading, caption, or other advanced features, but though fairly basic there is no doubt that many users would find automatic table generation a real boon.

The ability to format any text within the table's boxes, and shrink, expand, or remove any of the rows and columns offers a certain amount of control over design, so

➤

Objects, including the structured drawing tools, turn Wordworth into an effective DTP system

Flashback!

Final Writer is the obvious comparison for Wordworth 3, and many of the improvements in this release seem to have been prompted by Softwood's flagship word processor.

It is difficult at the moment to judge which is the better product, as Final Writer 2 is being released as this review goes to the press – look out for the full review next month – but it is safe to say that Wordworth 3 has a definite lead over the first version of its main rival.

Some of Final Writer's features remain unbeaten, particularly its more flexible implementation of the button bar idea, its style tags, and its faster graphics handling, but as Wordworth now incorporates good word crunching with powerful design features, it has leapfrogged back into the lead.

there's enough to make the feature very worthwhile in reports and other documents where data is to be presented.

To aid those typing raw data into a document, there is a simple calculate function, new to the tools menu, which will calculate the total, maximum, minimum, or average values for any row or column of figures in a table.

Alas, there's still no graph or pie chart generator such as found in, say, Word for Windows, but this PC monolith costs £400 or more, so who's complaining?

One final group of features new to objects are those relating to grouping and so on. Any object, be it a simple line or an imported IFF, can be grouped with others, then moved around together. Objects can also be moved forwards and backwards to achieve layering effects, and any object or group can be copied to every page in a document, making the duplication of a company logo very easy indeed.

CRAFTED

Locking objects is also catered for, an underrated feature which can save a lot of hassle. When happy with the placement of an object, the user can lock it in place, making it impossible to upset a carefully crafted layout or move a large picture and incur a time penalty while the screen updates.

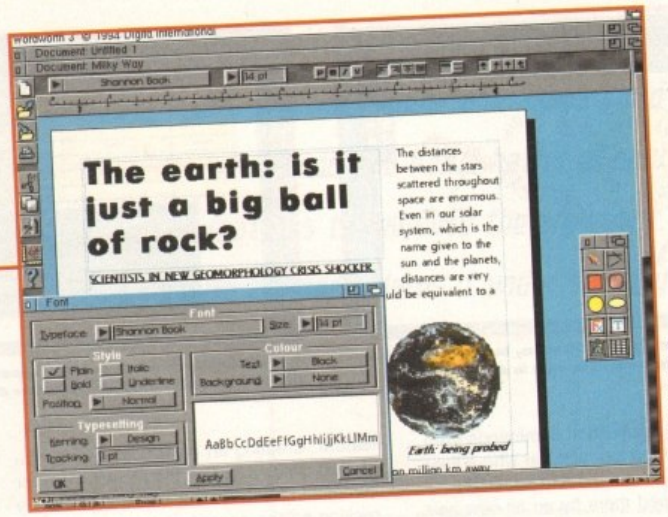
As all imported pictures can be previewed in full colour or as crossed out box, users can elect to turn off large images to save time, giving Wordworth 3 all the advantages previously only enjoyed by Final Writer.

Though the new objects features have attracted a lot of attention, they are not the most important from a word processing point of view, and the many improvements and tweaks found in Wordworth 3's more sober areas are every bit as welcome and, in some cases, more useful.

The find and replace routine, for example, now offers users the ability to look for paragraph breaks and tabs, hard spaces, page numbers, and has a wildcard option which makes global search and replace a far more powerful tool when working with large documents.

Writers who work with both PCs and Amigas will tell you that nitty-gritty differences such as this can be the difference between one WP and another.

A new font requester which offers better control over text is also a welcome addition. From the same window, users can now select a font, change its tracking (space between letters), select superscript or subscript, and elect to use design or text kerning.



The font requester brings most typographical controls together in one easy to use window

> Most useful of all, though, is the template option, which is much the same as Final Writer's master page approach. The user can save a document as a template to be used as a blank whenever a new document of that kind is created

KERNED

The former is used for larger font sizes where letters have to be kerned (roughly equivalent to how much they are "fitted") closer together to avoid, for example, a headline looking too spaced out or becoming too wide.

Most useful of all, though, is the template option, which is much the same as Final Writer's master page approach. By creating a basic layout including a letterhead or some other universally used design elements, the user can save a document as a template to be used as a "blank" whenever a new document of that kind is created.

Fax sheets are a good example of this kind of template, but invoices, letters and other often used formats benefit equally from the use of templates.

As objects which have been carefully created can't actually be saved out (though they can be cut and pasted between documents), the template is the only way to quickly recreate a useful layout.

On balance, the bugs aside (and we can only hope these are quickly dealt with by the dispatching of a patch disk to registered users), Wordworth 3 is a worthy reply to the challenge of Final Writer.

Though still slow at times, its speed when using graphics has been markedly improved, and a long list of new or improved features has removed many of the deficiencies suffered by its predecessor.

Now more flexible than anything else on the Amiga, and still a powerful word engine as well as a glitzy layout package, Digit have, for the moment, regained the high ground. Tune in next month to see if their spell at the front will last. AC

Verdict: Bugs galore

Whether through a desire to launch before Final Writer 2, or through plain old human error, this first release of Wordworth 3 reaches the shelves with several bugs, many of which are fairly major.

On the A1200, for example, the program is not as stable as it should be, and frequently crashes. Screen glitches caused by the drop-down menus and the odd requester are also common, and the quality of Digita's bug testing has led this reviewer (who is writing this review using Wordworth 3) to put the auto-save delay down to only three minutes.

One of the most annoying bugs is that many requesters don't automatically pick up values from a document. In particular, the paragraph requester doesn't pick up the style information when more than one paragraph is selected at once.

This means that if restyling a large section of text – necessary when you don't have style tags – you have to type all the margin settings and so on back in.

If the line spacing gadgets, which think that line spacing is "mixed" (whatever that means) aren't re-educated, the result is that a 3,000 word document can be squeezed down to a single line.

Again, when deleting a graphic which previously had text flowing around it, it is necessary to reformat the affected paragraphs because they don't automatically flow back into their original shapes.

Happily, though, Digita have just announced that v3.0a is to be released, probably before you read this, and that all bugs will be fixed in the new version.

They are calling it a "general tune-up", and claim also that speed has been improved. Watch the Updates column for a report on this patch disk when we receive it.

SYSTEM ESSENTIALS

RED = Essential BLACK = Recommended

2 Mb RAM

Hard drive

The bottom line

Product: Wordworth 3
Supplier: Digita International
Phone: 0395 270273
Price: £ 149.99

Ease of use 9
Implementation 4(9)
Value for money 8
Overall 5(9)
(Apply second score when bugs are fixed)

Epson Scanners

The GT-6500 and GT-8000 24-bit colour flatbed scanners from Epson scan up to A4 in size, with output resolutions of up to 1200DPI on the GT-6500 and 1600DPI on the GT-8000 in 16.7 million colours, greyscale or line art. The scanners include either PowerScan or Image FX scanning software. An optional automatic document feeder is available.

Epson GT-6500 PowerScan	£599
Epson GT-6500 Image FX	£689
Epson GT-8000 PowerScan	£849
Epson GT-8000 Image FX	£929
Document Feeder	£399

PowerScan 4

Completely re-designed powerful user interface, produce 256 greyscale images (on a AGA machine), scan in 64 greyscales (non AGA Amiga can only display 16), add colour to greyscale images, special effects, new support for 18-bit scanner, add text to scans, available with mono or colour scanner. A1200/600 version available soon.

PowerScan 4 (Mono)	£119
PowerScan 4 (Colour)	£239
PowerScan 4 inc. OCR	£159
PowerScan 4 upgrade interface	£50
PowerScan 4 upgrade software	£20
OCR Full version	£49

Epson LQ-150

The LQ-150 is a fast, quiet 24-pin colour dot matrix printer. With draft printing speeds of up to 216 cps and high quality colour text and graphics output. The LQ-150 has a built-in 50 sheet paper cassette with automatic paper feed, and an optional tractor unit for use with continuous and multi-part stationery.

Operating either flat or flipped on its back - to save desk space - the LQ-150 incorporates Epson's ESC/P and ESP/P2 printer languages, ensuring compatibility with most popular software packages. It also comes supplied with Windows printer driver for use on your IBM as well.

Optional tractor unit

Epson LQ-150

Power Computing being an Epson distributor and dealer can supply all Epson products at uncompromising prices.

Free Epson baseball cap and T-shirt when you purchase an LQ-150 Printer. Subject to availability.

Epson LQ-150 (inc. all cables)	£229
Tractor Unit	£29.95
Black Ribbon	£5.95
Colour Ribbon	£15.95

EPSON
DISTRIBUTOR

POWER COMPUTING LIMITED
44a/b Stanley Street Bedford MK41 7RW
Telephone 0234 273000 Facsimile 0234 352207

All prices include VAT, delivery extra, E & OE

BLITTERSOFT

(Dept AC)
40 COLLEY HILL, BRADWELL,
MILTON KEYNES, BUCKS,
MK13 9DB

TRAPFAX SOFTWARE

The ultimate in Amiga Fax software. For class 2 standard. Send faxes from ANY preferences printer driven program! Superb quality and flexibility. Features delayed transmissions, multiple fax scheduling, Integrated phonebook, Fax Viewer, ARexx interface and Network support!

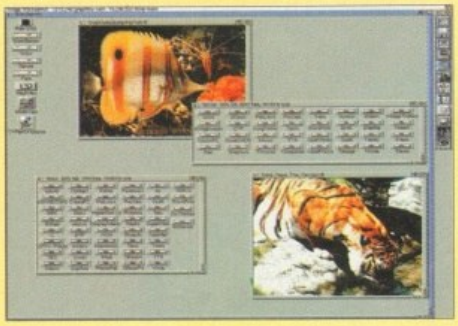
Now only £49.95

UPPER DISK TOOLS

A great new concept in the recovery of deleted or lost files from any normal disk. Files are recovered through a new virtual AmigaDOS device called REC: using the CLI, Workbench or your favourite file utility. Simplicity itself – A dream to use! The best **£19.95** you will ever spend on your Amiga.

PICASSO II

The Picasso II RTG Emulator integrates seamlessly into the Amiga operating system to give the most reliable emulation available. The new resolutions provided by the Picasso II appear in all your applications as new screen modes selectable from the standard ScreenMode requester. For any program that allows you to choose a new screen mode, you would simply choose a Picasso II screen mode as an alternative (such as Picasso:1280 x 1024). OS friendly programs will be able to immediately take advantage of the Picasso II board. The Picasso II uses a built in Blitter and high speed memory subsystem that offers super fast screen updates. Because the Picasso II RTG board does not use Chip RAM, your Amiga will be less likely to suffer from bus contention problems normally associated with running high resolution screens and heavy DMA activity. You can use fast RAM as graphics memory, leaving the 2MB restriction behind.



The Picasso II comes with several screen modes and resolutions that are industry standard and for which all monitors are designed. These modes operate at the proper scan rates and frequencies in order to take advantage of the most popular monitors available. In some instances, where those modes may not be sufficient, you can now create your own custom screen modes with PicassoMode program. Picasso II comes with TVPaint Junior, MainActor (animation program), IFF, GIF, JPEG and MPEG Viewers and drivers for ADPro, ImageFX, ImageMaster and Real 3D. A TVPaint 2.0 bundle is available too.

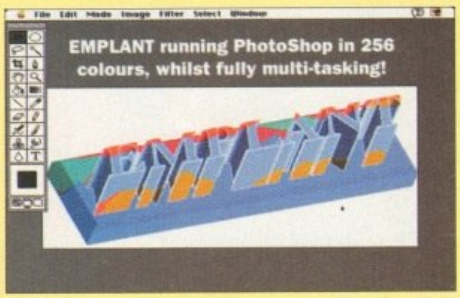
Great New Prices - TVPaint Junior Included!

PICASSO II 1 MB + TV PAINT Jnr.	£319.95
PICASSO II 2 MB + TV PAINT Jnr.	£349.95
PICASSO II 1 MB + TV PAINT 2.0	£469.95
PICASSO II 2 MB + TV PAINT 2.0	£499.95

EMPLANT

EMPLANT will revolutionise the way you use your Amiga! Imagine one card offering multiple emulations that ALL multi-task (after all, isn't that the way the Amiga was meant to work!)

The supplied Mac emulation boasts *full colour* (16 ECS, 256 AGA, 16.7 Million with supported graphics cards) and superb Stereo Sound.



EMPLANT supports Hard Drives, (via on-board SCSI or AmigaDOS partitions), Hard Files, MAC 800K (via Mac drive adapter), MAC/IBM 1.44Mb, IBM 720K, EMPLANT and AMAX formats. The SCSI interface supports both the Amiga and the emulated machine at transfer rates of over 1 Mb/Sec.

EMPLANT supports AppleTalk, Serial ports, Printers, Modems, Midi, etc. You may use SyQuest, Any AmigaDOS device (DH0:, RAD:, VD0: etc.), Scanners, Graphics Tablets, CD ROM etc.

Emulation speed is exceptional and compatibility is excellent. All known software runs! Built in file transfer between platforms is provided, with new MultiOS system and support for the Amiga Parallel/Serial port for direct printing/modem via the Amiga! Cut and paste text between Amiga/Mac programs too. The IBM 386/486 emulation module will be out soon.

EMPLANT supports any Zorro equipped Amiga with the A1200 PCMCIA version out soon.The Mac emulation alone requires 68020/30/40 with 4Mb RAM minimum and also 256K MacII/x/cx/SE30 ROMs.

EMPLANT BASIC	£299.95
EMPLANT OPTION A (APPLETALK)	£349.95
EMPLANT OPTION B (SCSI)	£349.95
EMPLANT DELUXE (A+B)	£399.95

WAVETOOLS

STUDIO QUALITY SOUND, PROFESSIONAL LEVEL FEATURES!

WaveTools 16 bit audio card plugs into any Amiga 1500, 2000 (accelerated), 3000, or 4000 computer, giving your Amiga the punchy sound quality of CD's and DAT recorders at a fraction of the price of other 16 bit sound cards. WaveTools uses your computers hard disk drive to directly record, edit, mix and playback audio in Amiga compatible AIFF 16 stereo file format. Using state of the art circuitry WaveTools has a frequency response of 10Hz to 20KHz and a dynamic range of 85dB for faithful reproduction of sounds from the fattest bass to the thinnest strings. WaveTools provides a pair of stereo I/O jacks for direct connection to any device with standard line in and line out connectors. Record from CD players, DAT recorders, Video Tape, Videodisk or any other line level audio sources.

WaveTools is able to sample data at a variety of sampling rates as low as 19KHz as well as the standard rates of 44.1KHz and 46KHz for CD and DAT compatibility. WaveTools includes a waveform editor for cut, copy, paste and mix operations on selected portions of audio waveforms. WaveTools maintains an internal time code in the format of SMPTE 24, 25 and 30 frames per second to ensure perfect synchronisation of your audio files with video and animation, if required.

The ***WAVETOOLS RTX*** *(Real Time Effects)* Module adds an AD2105 DSP (Digital Signal Processor) and a SMPTE time code reader/generator. The DSP allows real time 8 track mixing and playback (stereo out), and realtime effects such as flange, echo, slapback, EQ etc. The architecture is open to allow third party developer support (custom DSP routines). The SMPTE time code reader allows WaveTools to chase Longitudinal Time Code (LTC). Vertical interval Time Code (VITC) and Midi Time Code (MTC). It accepts composite NTSC or PAL video for VITC and line level audio for LTC. The time code generator can stripe VITC or LTC and can generate a user positioned time code burn-in window for making a video work print with time code stamped on it.

WAVETOOLS	£349.95
RTX Module (Ships April)	£299.95
WAVETOOLS RTX (both boards)	£599.95

COMMS

TRAPFAX INCLUDED!

Thanks to BT and Mercury, you can now dial anyway in the UK on weekends for the cost of a local call. That's only about £2.00 per hour! Thanks to Blittersoft, you can now own a spanking new 14,400 V32bis Fax Modem with the Ultimate Fax software for an all-time low price, complete with TRAPFAX, the ultimate Amiga Fax software!
This modem incorporates the proven Rockwell technology resulting in incredible performance and great looks. The world of Comms (and its wealth of PD software and support) can be yours to explore! Why put up with a slower modem?

PEGASUS 14,400 External Fax Modem V.32, V42 (thruput 57,600 bps), Class 1&2 Fax **£199.95**

THERE'S NEVER BEEN A BETTER TIME TO GET INTO THIS GREAT AREA OF COMPUTING!

TOWER POWER! *An Amazing Power-User Pic'n'Mix!*

Amiga Model	Price	Add Picasso II*	Add Emplant Deluxe	Add Emplant Deluxe + Picasso II*
A4000T 214 Mb IDE	£1949.95	£2269.95	£2299.95	£2599.95
A4000T 525 Mb SCSI-2	£2199.95	£2549.95	£2519.95	£2849.95
A4000T 1.05 Gb SCSI-2	£2499.95	£2819.95	£2849.95	£3149.95
A4000LC 214 Mb IDE	£1629.95	£1949.95	£1979.95	£2279.95
A4000LC 540 Mb IDE	£1849.95	£2169.95	£2199.95	£2499.95

Our exclusive options give unrivalled power! Take your pick from any of the new Commodore machines, from the new low priced LC machines to the flagship Tower! Now, with our enhanced options, you can add 24-bit display and a full emulation engine in the shape of EMPLANT. Mac emulation included with the IBM module expected during April (£99.95 upgrade). Imagine the capabilities of this multi-platformed workstation, all multi-tasking and in full colour!

*Picasso II is the full 2Mb board, and includes **TVPaint Junior**. Add £130 for **TVPaint 2.0**. Add £160.00 for additional 4Mb SIMMs.

NEW SYQUIST 105 MB REMOVEABLE DRIVES EXTERNAL
SLIMLINE UNIT, CASED, PSU, SCSI CABLE £399.95
105 MB CARTRIDGES £65.00
APPLE CD 300 EXTERNAL DRIVE, CASED, PSU, SCSI CABLES
AMIGA/MAC SUPPORT HES ISO 9660 CD ROM XA CD-G
CD+MIDI, PhotoCD, Audio CD, Fast and compatible £199.95

TRADE ENQUIRIES WELCOME

VISA MasterCard

CREDIT CARD ORDERS ATTRACT A 2.5% HANDLING CHARGE. GOODS NOT SENT ON A TRIAL BASIS. E&OE. ALL PRICES INCLUDE VAT. STANDARD COURIER £3.00/NEXT DAY £8.00 (OVER 10KG – PLEASE CALL)

TO ORDER CALL OR FAX (0908) 220196

UK BBS (0908) 310208

The impressive DVEs couldn't be simpler, but remember many of the effects require MorphPlus in addition to ADPro, ripple being a classic example

Macros for the masses

Video software can be highly complex, but with macros it is possible to simplify things – at a cost. Paul Austin discovers how ADPro and MorphPlus approach one-key desktop video

Since longer than many of us would care to recall, ADPro has been synonymous with the best in Amiga image processing. Although bursting with assorted special effects and power features, the program has always fallen short as a friendly multi-processing environment.

To be fair, it isn't that ADPro doesn't support multi-processing, it's just that to fulfil its potential required a fairly in-depth understanding of ARexx. In the past ASDG naively felt that the user base, inspired by the software, would devote time and effort into ARexx and in turn ADPro.

However as they soon discovered, graphics enthusiasts are artists by nature and have neither the time nor the inclination to master a programming language.

And to be honest, when you pay so much for pro image processing software, automation should be guaranteed and not left in the hands of a user who wants results, not programming lessons.

As a result, ASDG fought back with the release of FRED, a program which heralded the effort for improved multi-processing. Although a big improvement, it was mainly useful as a off-line sequence generator and image compositor – ideal for those lucky enough to own still-frame video recorders, but it still fell short for the rest of us.

With the partial success of FRED, ASDG went on to launch the program which appeared to finally solve the problem of ADPro automation. With the arrival of ProControl, a friendly interface at last appeared to heal the sometimes torturous accord between ADPro and ARexx.

ProControl not only brought unrivalled multi-processing to both ADPro and MorphPlus, but also offered it up within a beautifully clean and concise interface which transformed hours of hard graft in a text editor into a matter of seconds and the occasional mouse click.

EXCITEMENT

However, after the initial excitement cooled it soon became clear there were still a few areas that could benefit from a slightly more intuitive approach.

Although unbeatable when it came to file format conversion, resolution chances, scaling and the application of multiple operators, ProControl still required a high degree of user experience when it came to creating special effects, and compositions which evolve over time.

As a result, there was still a gap in the market, which has now been filled by Multiframe from Macro Systems – the German manufacturer better known for their hardware exploits such as VLab, Retina and Toccata.

With the arrival of Multiframe, Macro Systems have taken an impressive first step into software publishing. Like its counterpart, the program provides yet another friendly alternative front-end for the creation of DVEs – alias digital video effects.

Although this would appear to spell out direct competition, there is a subtle difference between the two packages. Although ProControl is capable of DVE generation, it tends to be much better suited to complex image manipulation using multiple operators in a single pass – which don't change over tim The reason for this is that ProControl ➤

BACKGROUND

Although almost the entire article has been dedicated to the relationship between MultiFrame and ProControl, ADPro and MorphPlus aren't the only packages which offer batch processing.

Arch rivals of ASDG in the image processing business are, of course, GVP with their ImageFX image processing system. Unlike ADPro/MorphPlus, ImageFX ships with a multi-processor built-in at no extra cost. Admittedly the IMP – alias ImageFX Multi Processor – isn't as flexible as the ADPro offerings, but it does offer basic multi-processing with options to convert formats, scale and add colourisation effects across a batch of images.

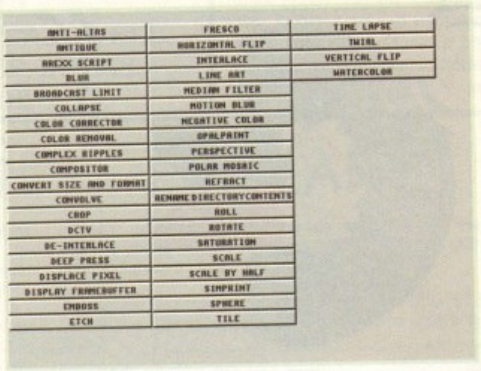
However it doesn't offer the DVE generation, which both ProControl and Multiframe can provide. But if you're about to take your first tentative steps into the world of high-end Amiga graphics it certainly worth serious consideration.

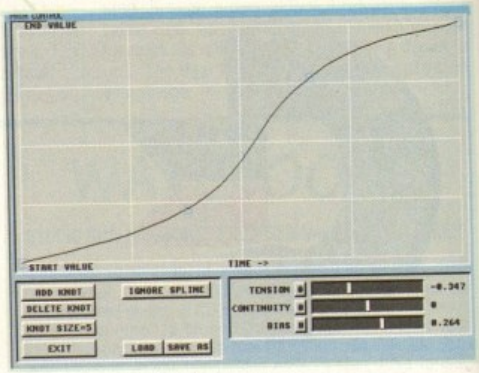
generates the Script as you add the parameters – in effect you still write the script – and as a result multi-processing a single image into a sequence or combining multiple frames with the assistance of an alpha channel still requires an understanding of ARexx and the inner workings of ProControl.

MultiFrame, on the other hand, lacks the infinite flexibility of ProControl but does provide a point and click approach to the generation of DVEs.

Rather than generating the script as you go along, you're provided with selection of pre-written processes to which parameters are added. As a result there's an inevitable trade-off between instant special effects and user control.

As you can see, Multiframe is very graphically-oriented with button selections controlling almost the entire process. At the top of the screen you're provided with various options to select your source graphics, add alpha images – if composition is required – and assign the output directory for the end results.





Time line control with the assistance of MultiFrame's optional spline control

Just pick your process and let Multiframe do the rest

IMPORTANT

After selecting your image(s), the first step is to set the number of frames to be generated. Alongside this sits probably the most important button on the screen. This Single or Multiple source toggle allows you to define whether the files are to be generated from one image or an entire sequence.

Obviously if you wish to process an existing multiple frame sequence, the parts must be saved in a background directory and numbered accordingly – the same applies for the foregrounds and alpha sequences.

On the other hand, if you wish to generate a DVE sequence from a single source, numbering isn't a problem – just select the file, define a single source, specify the number of frames, and apply the effect with the necessary parameters.

At this point, a sequence will be automatically generated with the effect increasing incrementally over the frames. Wonderful stuff – instant DVEs at the touch of a button.

However, Multiframe doesn't stop there. Unlike ProControl, the program also supports spline-based time line control. As a consequence any process can be fine-tuned to speed up and slow down according to a user-defined spline.

To adjust the spline, a simple click on the Path button reveals the spline window with a definable number of Knots and tension controls with which to adjust the curve and subsequently the application of the effect during the sequence or anim.

AUTO-DISPLAY

Next up comes the excellent frame buffer screen which allows you to select between the Firecracker, Retina, OpalVision, DCTV or Harlequin as an auto-display device.

By toggling various buttons you can define whether the image should be automatically displayed on the chosen board either before, after, or before and after processing.

Like spline control automatic 24-bit previews are unique to Multiframe and make life – and early error detection – much easier. Of course, the requester also offers preview on the Amiga screen – in fact, both can be used or toggled between as required.

Following the impressive Path and Frame buffer controls come a series of slightly mundane system options which allow the specification of defaults such as the program's temporary store and Rexx directory.

In addition, you're also supplied with a GPI button which leads to the general purpose interface set-up screen. From here you can control external devices such as single frame controllers, digital recorders and assorted DVE devices with the assistance of an optional hardware add-on.

Apart from the four remaining buttons for the loading and saving of defaults, about information and quitting, that's about it for the initial set-up.

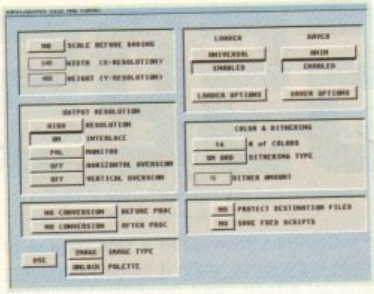
When you've added the necessary information, all that's left is to select the process you require, add the necessary start and finish parameters and initiate the process.

As you can see there's a selection of 54 assorted processes covering a wide variety of effects. However don't be deceived by the Ripple example – this is the only one which provides a graphic interface on setting up. All the others simply use start and finish text boxes – all of which require parameters to be typed in.

Due to the need for specific parameters it's often essential to pop back to ADPro, fire up the desired operator and experiment with various settings to ascertain the best start and end parameters.

To assist in this, a small flip switch on the main screen allows you to jump between the two programs when necessary. In addition another very useful button allows you to automatically delete the contents of the output directory, either with or without a warning requester.

A particularly pleasant aspect of almost all the available processes is the ability to save parameters, which means you can soon build up a library of effects which can be called upon whenever necessary.



Basic format conversion and scaling courtesy of the input/output screen

Verdict

Given the assorted swings and roundabouts of both Multiframe and ProControl it's very difficult to give a "yes/no" decision on which is the best investment. In a perfect world the ideal solution would be to invest in both programs and exploit the best elements of each.

For those who have no interest or aptitude when it comes to fine-tuning scripts, Multiframe is probably the ideal choice. It asks very little from the user in exchange for an impressive array of instant DVEs.

On the downside it lacks a lot of flexibility in relation to ProControl. A prime example of this is the need to re-process sequences. Let's say you needed to crop the image, alter the resolution, turn it into a negative and add a ripple. You'd require three complete passes over the entire sequence – which on larger projects could take a very long time.

However, if you applied the same changes using ProControl, everything could be done in a single pass, but would require a much more in-depth understanding of ADPro and the idiosyncrasies of ProControl.

For the pro videographer it's safe to say that Multiframe is just too useful to ignore, while artistic technophobes will find it a breath of fresh air in the sometimes stuffy and complex world of Amiga DVE generation.

SYSTEM ESSENTIALS

Essential: ADPro or MorphPlus
Essential: OS 2.04

Recommended: ADPro and MorphPlus
Recommended: 24-bit board

The bottom line

Product: Multiframe
Supplier: Meridian Distribution
Price: £99.95
Tel: 081-543 3500

Ease-of-use: 10
Implementation: 8
Value for money: 7
Overall: 8

Your Specialist

stores:

North West:

Bolton Computer Centre	Bolton	0204 841937
Burnley Computer Centre	Burnley	0282 31108
Castle Computers	Lancaster	0524 61133
Computer Software Centre	Arndale Centre, Manchester	061 224 3375
Computer World UK	Bolton	0204 495011
VU Data	Ashton under Lyne	061 339 0326
VU Data	Stockport	061 477 6739

Midland and Wales:

Coventry Computer Centre	Coventry	0203 223081
Mertec	Swansea	0792 467980
Mr Disk	Birmingham	021 643 6222
Soft Centre	Cwmbran	0633 868131
Spa Computers	Leamington Spa	0926 337648
ST Electronics	Nottingham	0602 632467
Town Computers	Stoke on Trent	0782 287540

South East:

5 – 12 Software	Kingston	081 974 8900
Barkmans	Ealing Broadway	081 840 4114
Barkmans	Kingston upon Thames	081 546 5941
Bits'n'Bytes	Ipswich	0473 219961
Computer World	Canterbury	0227 766788
Database	Thurrock	0708 890976
Datel Electronics	London	071 580 6460
Gamer	Brighton	0273 728681
Hobbyte	St Albans	0727 856005
Platinum	Leigh on Sea	0268 778909
Softly	Milton Keynes	0908 670620
Swanley Computers	Swanley, Kent	0322 613937
Worthing Computers	Worthing	0903 230940

North East:

Maughan Micros	Gateshead	091 493 2308
Tomorrows World	Hull	0482 24887
Topsoft	Stockton	0642 670503

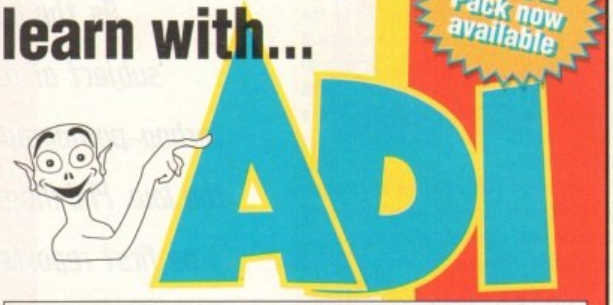
Calculus stores - please ring head office on 0543 418666 for your nearest store
Next Level - please ring head office on 0532 458600 for your nearest store
Comtazia - please ring head office on 0384 261698 for your nearest store
Game Ltd - please ring head office on 081 974 1555 for your nearest store

europress SOFTWARE

Europa House, Adlington Park,
Macclesfield SK10 4NP
Telephone: 0625 859333

Laugh while you learn with...

GCSE Pack now available



Explore English, Maths and French with ADI, the lovable extra-terrestrial who'll entertain you with his funny remarks and whistly voice. As you learn he'll congratulate you when you do well and cajole you if you make mistakes.

There's one package for each school year plus a brand new two-year GCSE pack, and the software closely follows the guidelines of the National Curriculum, drawing on the talents of some of the most gifted teachers in the country. As a result ADI ideally complements what students are learning in school, and acts as a superb revision tool.

Available NOW:

English 11/12 12/13 13/14 GCSE

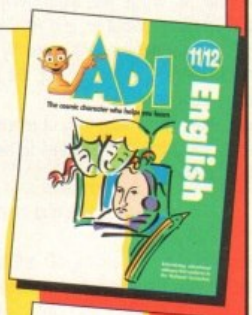
Having problems with your nouns and adjectives? Can't sort out your suffixes and prefixes? You need ADI English, covering all the basic elements of English grammar required by the National Curriculum syllabus.

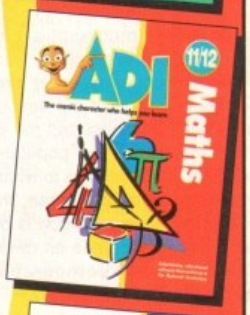
Maths 11/12 12/13 13/14 GCSE

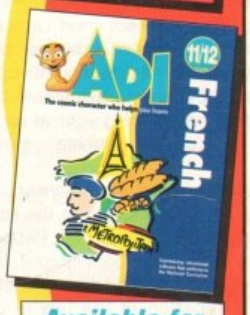
If your algebra and geometry are causing you grief, look no further than ADI Maths. These are just two of the topics covered by the packages – whatever your maths problem, ADI's got the answer.

French 11/12 12/13 13/14 GCSE

Say bonjour to French with ADI! The ADI French 11/12 package introduces first year students and beginners to France and French, and older students will find the GCSE pack ideal as a revision aid.







europress SOFTWARE

Europa House, Adlington Park,
Macclesfield SK10 4NP
Telephone: 0625 859333 Fax: 0625 879962

Available for PC, ST and Amiga (including A1200)
GCSE pack not available for ST

You will find the ADI packages and the rest of the Europress Software range at all major computer software retailers including Boots, WH Smith, Virgin, HMV, Game and independent specialists. If you have any difficulty obtaining the package you require, please call our Customer Services department on ***0625 859333****.*

As the Government dithers on the subject of computer pornography, the techno-pornographers continues to outwit the law. Phil Morse returns to the subject he first reported on two months ago to catch up with the latest developments

Beyond

A couple of months back, we reported on the growing trend to import pornographic images of all types into this country over international telephone lines. We also demonstrated both the ease with which it can be done and the variety of images – both static and moving – which can be found.

We explained how children have been caught distributing such material on floppy disks (like the one mounted on the front of this magazine when it was bought), and highlighted the concern over this new and extremely distributable type of pornography, especially considering the ease with which the very young can use computers when compared to many of their parents.

The article closed by reporting news of proposed forthcoming tightening of legislation to try to curb the phenomenon, although we expressed doubts as to whether telephone lines could, morally or practically, ever be effectively policed.

Since then there have been a number of developments, some frightening, some hopeful, some curious. Public concern has risen; our original *AC* article was extensively quoted in the *Guardian* newspaper, and with television and other major publications currently preparing more coverage of the subject, the publicity shows no signs of abating.

Here, then, is our summary of recent developments, and some further ideas to help push the debate forward.

Home Secretary, Michael Howard. He has so far failed to turn the Commons select committee's report into law

Computer pornography. Like multimedia or the computer virus, it's a phrase conjured up to explain yet another phenomenon of the new computer age, and like multimedia and the computer virus, the majority of the population have nothing but a vague idea as to what it is.

The difference is, of course, that while technologically obscure jargon is of no real interest to most, a phrase as deviancy-ridden as computer pornography most certainly is.

And when a recent court case involving the attempted rape of a six-year- old girl by a boy of 13, who had seen computer pornography, hit the headlines, the pressure to do something – or at least to be seen to be doing something – moved up a gear.

On February 9 of this year, a Home Affairs select committee at the Houses of Parliament published a First Report on the subject of computer pornography. It made a number of recommendations, mainly involving clarification of the law in order to encompass the peculiar legal grey area surrounding electronic data.

This is important because while it is easy to prove that, say, a pornographic video is indeed pornography, it's an altogether harder proposition proving the same thing about a series of electronic bleeps coming down a telephone.

Sir Ivan Lawrence, Conservative chairman of the select committee, summed up the dilemma: "There is immense public concern about computer pornography. The technology advances that have been made recently have been moving ahead of the law."

> "The current technology makes the law very difficult to enforce"
>
> – Home Office

As the law stands, it is illegal to import pornography into the country in any "tangible" form – which means that if it is sent over a telephone line, it escapes the law's exact wording.

As Labour MP Steve Byers warns: "To take an extreme case, imagine that a perverted teacher called up a number in the Netherlands on the school computer.

"He could have hard-core pornography which it would be illegal to buy in this country transmitted down the line, without breaking the law."

IMPOSSIBLE

Although the MPs who made up the committee acknowledged that it would be impossible to halt the import of pornography in this manner by legislation, they stated that a tightening of the law would nevertheless allow police to prosecute where they did find evidence that the crime had been or was being committed.

It is a view shared by the Crown Prosecution Service, the people who decide whether such cases should ultimately go to court or not, and the Police Federation, representing those who would actually be enforcing the law. But it's a view which the Government seem not to agree with. For merely a day after the real-life child/computer pornography story made it into the paper, Home Office minister David Maclean announced that the government would not be changing the law.

In making their decision, the Home Office had no doubt listened to the advice of customs officials, who had warned that monitoring phones for pornography would be controversial and probably ineffective, and discovered some technical legal difficulties of its own to add to the excuses.

So why does the Crown Prosecution Service still insist that, yes, "it would be possible to enact such an offence"? And why does Sergeant John Ashley, whose work in Greater Manchester Police's Obscene Publications division has made him a national expert on the subject, still urge just such a change in the law?

In short, why, if somewhere, somehow, someone has been caught importing computer pornography over the telephone lines, will the government not change the law to allow them to be prosecuted fully and properly?

The Home Office insists that "the technology makes [the law] very difficult to enforce". Further than this, it seems that some of the earlier loopholes highlighted will be closed.

But all of this still leaves the law at best ambiguous and at worst useless when it comes to the importation of computer pornography in the one way it most happens – across the phone lines

We all realise, or at least we should realise, how utterly confusing and downright unintelligible computers and the computer industry can be to someone on the outside, with no inclination to use or learn about the technology people such as the average *AC* reader takes for granted. Maybe a little techno-fear has a part to play

Too little, too early?

Before the publication of the Commons select committee's report, the Home Secretary, Michael Howard, announced the proposed tightening of certain laws regarding the distribution of computer porn.

He outlawed transmission of data (ie the sending from your own computer of pornographic images), and for the purpose of prosecution, included moving images "electronically stored on computer chips and cartridges" within the jurisdiction of the Video Recordings Act 1984. However, even if these proposals all become law, they do nothing about the wider problems highlighted in the select committee's report.

the pale

in the government's reticence to update the law. One can understand hesitation in altering a law to govern something those doing the actual altering do not really understand, but the reality still will not go away.

While the Government dithers, technology moves on. Reports from Germany suggest that hard-core pornography is already available on compact discs which can be viewed on Commodore's CD32 games console. It's a far cry from Zool, and a damned sight more worrying.

An industry insider informed us that the complete range of Electric Blue pornographic films, from porn entrepreneur Paul Raymond, will soon be openly on sale in England on CD too.

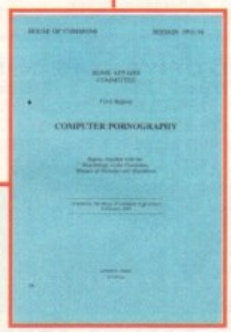
It is clear that, whatever happens next, the twin race of technology vs the law does not stop here. In the meantime, porn most certainly is swapping hands on disks in our playgrounds, aided and abetted by its easy importation into the country over the telephone lines.

ETHICS

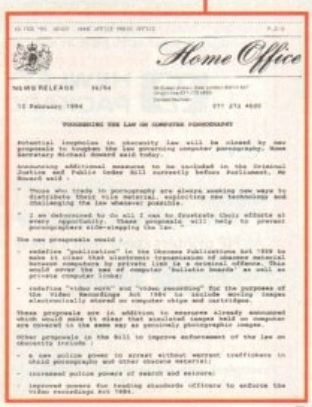
It's an industry, and one which we ignore at our peril. As always, education must be used as a tool where legislation fails. Sgt Ashley: "All schools should teach computer ethics. They're all for teaching children how wonderful computers are, but they should also teach them about the harm they can cause."

But until the Criminal Justice Bill finally becomes an Act, it remains to be seen what will and will not make it into law. It seems doubtful whether legislation in the near future will be even midly effective, because in order to solve a problem you have to understand it.

If our Government continues to ignore the advice of those who have taken the trouble to study the problem, we will move no closer to a solution. AC



The House of Commons Home Affairs committee's report on computer pornography which was snubbed by the Government



The Home Office announces Michael Howard's limited reforms of the law regarding computer pornography

Have your say

What are your feelings on this subject? Being computer enthusiasts, it's just the type of ideas our readers may have which are especially useful in a debate where many of the commentators are unsure as to what they're dealing with.

So have your say! Drop us a line at Pornography Feedback, ESP, Amiga Computing, Europa House, Adlington Park, Macclesfield SK10 4NP.

This committee recommends...

The main recommendations of the Home Affairs select committee First Report on computer pornography were as follows:

- To make composite pornographic images – those containing more than one image (say, a young-looking woman's body and a child's head) – the same as any other pornography as far as the law is concerned.
- To increase the penalty for transmitting pornography (ie within Great Britain's boundaries) by any means, from £1,000 to £2,500 and three months in prison – or both.
- To amend the Customs Consolidation Act to make clear that it is an offence to import pornographic material into the country, and to make this offence arrestable.
- To clarify the law to make it absolutely clear that possession of pornography on, say, a hard disk, is as much of an offence as possession on printed paper.
- That the Government should give serious consideration to banning all advertisements (in magazines, for instance) for obscene material distributed from abroad.
- That the law be amended to allow the police to use confiscated computer equipment to continue the fight against computer pornography.
- That the Home Office should consider whether training in computers be made more widely available to police officers, or even be included in the CID training course.
- That head teachers receive guidance about dealing with computer pornography, and schools report back any incidents of it in order to form an accurate picture of the spread of computer pornography in schools.

The report dismissed suggestions that bulletin boards in Great Britain should be licensed, on the grounds that it would be unnecessary and ineffective anyway.

Interestingly, it also recommended that the Government should involve the European Leisure Software Producers' Association (ELSPA) in discussions with a view to what further steps might be taken to stop the sale or hire of violent and/or pornographic computer software; a salient point, with ELSPA's classifications system currently suffering from teething troubles.

FIRST COMPUTER CENTRE (LEEDS) Tel:0532 319444

"VOTED BEST CU AMIGA DEALER" JAN 93

FIRST COMPUTER CENTRE

OPEN 7 DAYS A WEEK

OPEN MON - SAT.....9.30AM-5.30PM
SUNDAY OPENING.....11.00AM-3.00PM
THURSDAY NIGHT LATE...9.30AM-7.30PM
OPEN HALF DAY MOST BANK HOLIDAYS

TELEPHONE LEEDS

24 HOUR MAIL ORDER SERVICE 6 LINES!

0532 319444

FAX: 0532 319191

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

HOW TO ORDER

Order by telephone quoting your credit card number. Please make cheques payable to the:
"FIRST COMPUTER CENTRE."
In any correspondence please quote a phone number & post code. Do not forget to include the delivery tariff. Allow 5 working days for cheque clearance.

- All prices include VAT
- Finance available, phone for details
- Large showroom with free parking
- Overseas orders taken
- Educational orders welcome

UK MAINLAND DELIVERY TARIFFS

- Standard Delivery.....£1.25
- Guaranteed 2 to 3 day (week days) Delivery.....£2.90
- Guaranteed Next Day (week days) Delivery.....£4.95

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.

From the M62 take the M621 and follow the turnoff for Leeds/York. This will merge with the Armley gyratory.

From the M1 follow signs for the M621 (ignore exit for town centre). Take A643 Elland Rd turnoff from M621. Follow signs for A58. This merges with Armley gyratory.

From the A1 take the turnoff for the A64. This merges with the A58 (by-passing Leeds town centre) which meets the Armley gyratory. After "Living World" at traffic lights take a right, left, left again, & 2nd left to get to FCC.

We recommend you confirm prices before placing an order. E&OE.

AMERICAN EXPRESS · SWITCH · Access · VISA · MasterCard · EUROCARD

2% surcharge on AMEX

CD ROM Drives

Internal SCSI CD-ROM drives for the A1500/2000/4000 (with suitable SCSI interface). All drives include driver software & will read both CDTV / CD32 & PC ISO 9600 standard disks. External kits for A3000 also available

NEC Multispin 2XI Internal **£194.99**
- 265Ms Access time
- 355KB transfer rate

TEAC CD-50 Internal **£339.99**
(Amiga 1500/2000 compatible only)
- 320Ms Access time
- 300KB transfer rate

TOSHIBA XM3401 Internal **£321.99**
- 200Ms Access time
- 330KB transfer rate

TOSHIBA XM4101
- 385Ms Access time
- 300KB transfer rate

Internal.£219.99 External.£314.99

GVP A4008 SCSI controller..£122.99

The AMIGA A1200

A1200 Standard pack only £259.99
without games software

Computer Combat pack only £334.99!
with Total Carnage, Brian the Lion, Zool 2, Wordworth 2, Print Manager, Day by Day, Personal Paint 4

RACE & CHASE pack only £289.99!
with Nigel Mansell F1 and Trolls!

DESKTOP DYNAMITE pack
with Wordworth 2 AGA, Print Manager, DPaint AGA, Dennis and Oscar
only £339.99

HARD DRIVE VERSIONS

	STD pack	R&C pack	D/D pack
64Mb	£419.99	£439.99	£489.99
85Mb	£479.99	£489.99	£537.99
127Mb	£499.99	£519.99	£564.99
209Mb	£569.99	£589.99	£629.99

THE CHAOS PACK!

- CHAOS ENGINE
- NICK FALDO CHAMPIONSHIP GOLF
- PINBALL FANTASIES
- SYNDICATE

only £29.99 or £19.99 with any AMIGA!

The AMIGA 4000

A4000/030,	80 Mb	HD.....£1037.99
A4000/030,	130 Mb	HD.....£1099.99
A4000/030,	250 Mb	HD*.....£1159.99
A4000/030,	340 Mb	HD*.....£1239.99
A4000/030,	420 Mb	HD*.....£1339.99
A4000/040,	130 Mb	HD.....£1879.99
A4000/040,	250 Mb	HD*.....£1949.99
A4000/040,	340 Mb	HD*.....£2029.99
A4000/040,	420 Mb	HD*.....£2149.99

Price Rises Imminent on the A4000 range!
All the above examples come with 6 Mb of RAM as Standard
*The hard drive only is not covered by on site warranty

All Amiga's come with Workbench, mouse & 12 month warranty. The A1200 & A4000 come with 12 months on site warranty All 1200's also come with a built in integral hard disk option.

A600 & 1200's 2.5" HD kits

20Mb.....*£89.99
120Mb...*£219.99
210Mb...*£319.99
60Mb....*£179.99
80Mb....*£194.99
*Just Add £10.00 for fitting
3.5" H/drive upgrade kit no HD only £22.99

PRIMA A1200 REAL TIME CLOCK

Date & time stamp files. Fits directly onto motherboard with no soldering

check for compatibility only £12.99!

AMIGA CD32 4 Game PACK

based on the 68020, the CD32 features AA chip set, A4 size footprint, 2Mb RAM, 128K flash memory, built in WB & the ability to play normal audio CD's inc Oscar, Wing Commander, Dangerous Street & Digger

only £279.99

Spectacular Voyage Pack.£289.99
includes Microcosm and Chaos Engine

Full Motion Video Module
Transforms the standard CD-32 into a powerful multimedia unit **£193.99**

CD32 Software

Fire Force	£21.99	Trivial Pursuit	£21.99
Lotus Turbo Trilogy	£21.99	Liberation	£24.99
Town with no Name	£21.99	Seek & Destroy	£19.99
7 Gates of Jambala	£21.99	Deep Core	£18.99
Chambers of Shaolin	£18.99	Zool	£21.99
Laberynth of Time	£20.99	Sensible Soccer	£19.49
Dangerous Streets	£21.99	Pirates Gold	£21.99
Whales Voyage	£21.99	Alfred Chicken	£21.99
Nigel Mansell WC	£21.99	Morph	£21.99

CD Rom Amiga A570

Turns your Amiga 500 into a CDTV. Includes Fred Fish CDPD disk & Sim City only £98.99!

PRINTERS

All our printers are UK spec, come with ribbon/toner, printer drivers (if available), paper & cables!!

Canon

Canon BJ10sx.....£184.99
Laser quality output. Large buffer

Canon BJ200.....£235.99
3 page a min speed, 360 dpi, small footprint & 80 page sheetfeeder

Canon BJ230.....£321.99
wide carriage version of above

Canon BJ300.....£419.99
Desktop bubble jet with laser quality

Canon BJ330.....£464.99
Wide carriage version of the BJ300

Canon BJC600 Colour...£538.99
new bubble jet from Canon

BJ10 Autosheetfeeder....£49.99

CITIZEN
COMPUTER PRINTERS

Citizen printers have a 2 year guarantee

New! ABC Colour printer£162.99
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 £139.99 if bought without the colour option

Swift 90 Colour.....£156.99
Excellent value 9 pin colour. Highly recommended

Swift 200 Colour.....£187.99
Same out put as the 240 but with less facilities

Swift 240 Colour.....£219.99
24 pin, 240cps draft, 10 fonts, quiet mode, 240cps.

Projet II.....£254.99
new inkjet printer with built in auto sheet feeder

Swift Auto Sheet feeder.£79.99

HEWLETT PACKARD

HP 310 Portable.....£223.99

NEW! HP 520 mono.....£249.99

HP 500 Colour.....£324.99

NEW! HP 560 Colour....£484.99
even faster than the old HP550C!!

All HP printers come with a 3 year warranty

NEW LOW STAR PRICES

THE star COMPUTER PRINTERS

Star LC100 colour.....£129.99
9 pin colour, 8 fonts, 180 cps draft, 45 cps NLQ

Star LC24-30 Col.....£204.99
complete with automatic sheet feeder, 192 cps draft

Star LC24-300 Col.....£249.99
24 pin quality, 264 cps draft, 80 cps LQ, 39K buffer expandible to 48K, 16 fonts and quiet mode.

Star LC24-200 colour...£219.99
Colour version with 30K buffer expandable to 62K

Star SJ48 Bubble jet.....£209.99
Laser quality, ultra quiet, Epson compatible & portable

NEW! Star SJ144 Colour Thermal
Stunning affordable colour printer. 3 PPM, low running costs

only £424.99

Star SJ48 Autosheet feeder only £49.99

Univedrsal Printer Stand only £7.99

SUPRA MODEMS

SupraFAXmodem 288
NEW Super fast! 28,800 bps + 14,400 Fax
Phone for more details only £284.99

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
only £159.99

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 £209.99

SupraFAX Plus.....£119.99
Even faster than the standard 2400 from Supra with auto dial & auto receive. 9600 bps Hayes comp. V22Bis, V42 Bis, MNP 2-5 & auto adjust to maximise transmission speeds. Includes free modem comms (not Fax) s/w & cable.

Supra 2400.....£64.99
Get on line using this great value fast modem with auto dial & receive. 2400 baud Hayes comp, V22 BIS. Includes free modem comms s/w & cable!!

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

US Robotics

WE ARE PREFERRED USR DEALERS

Sportster 2496 +Fax	£145.99
Sportster 14400 Fax	£243.99
WorldPort 14400 +Fax	£251.99
Courier HST (16.8)	£469.99
Courier V32bis Terbo +Fax	£449.99
Courier HST/Dual 16.8 Fax	£486.99
Courier HST/Dual 16.8 Terbo Fax	£556.99

If you thought V32bis was fast try the terbo! They come with a 5 year warranty & are BABT Approved!

MONITORS

All our monitors are UK spec. All monitors come complete with a free Amiga lead*

Sharp TV/Monitor £184.99
includes remote control, stereo sound

Microvitec 14" Multisync
1 year warranty £399.99
*free cable for A4000 only. A1200 cable £6.99 extra

NEW! Microvitec Autoscan 1438
.28 dpi, 15/38 KHz, all Amiga modes, AGA comp. no audio, tilt & swivell stand.
only £319.99

Commodore 1084S....£199.99
Commodore 1940.....£284.99
Commodore 1942.....£349.99

PRINTER CONSUMABLES

RIBBONS

Citizen Swift mono ribbon	£4.99
Citizen Swift Colour ribbon	£13.99
Star LC10/100 mono	£3.69
Star LC200 mono	£4.99
Star LC10/100 colour	£7.99
Star LC200 colour	£12.99
Star LC24-30 mono	£8.99
Star LC24-30/200 Colour	£11.99
Re-Ink Spray for mono ribbons	£11.99

COVERS

Star LC10/20 cover	£4.99
Citizen Swift/ABC	£5.99
HP 500/550/510	£5.99
Star LC100/200	£5.99
Star LC24-300/30	£5.99

PAPER

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

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

Delivery for 2000 sheets £5.00 when purchased without printer

PREMIER Ink Cartridge Refills

Save a fortune in running costs with your ink/bubble jet. Compatible with the HP500/550, Deskjet Plus, 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

Cartridges

Canon BJ10 cartridge	£18.99
Double life 500 cartridges	£24.99
HP550/500 Colour cartridge	£24.99
Star SJ48 cartridge	£18.99
Star SJ144 cartridge (pack of 3)	£42.99
Star SJ144 mono cartridges (3 pack)	£16.99
Star SJ144 colour cartridges (3 pack)	£16.99

Miscellaneous

Printer Switch Box 2 way	£12.99
Printer Switch Box 3 way	£17.99
Printer Stands (Universal)	£7.99
3 Metre printer cable	£6.99
5 Metre printer cable	£8.99
10 metre printer cable	£12.99

PRIMA A500 & A600 RAM

3 YEAR WARRANTY!!

	A500P	A600
Unpopulated	only £16.99	£23.99
Populated to 512K	only £19.99	£28.99
Populated to 1 Mb	only £28.99	£33.99
2 Mb A600 OR A1200 RAM card		£114.99
4 Mb A600 OR A1200 RAM card		£169.99

AMIGA A500 512K RAM by PRIMA for the original 1.2/1.3 AMIGA..only £15.99

32 BIT RAM (for A4000 etc)

1 Mb SIMM.....£39.99
2 Mb SIMM.....£95.99
4 Mb SIMM.....£152.99
8 Mb SIMM.....£309.99

RAM & CUSTOM CHIPS

SPEED	PLCC	PGA
25 Mhz	£53.99	£69.99
33 Mhz	£71.99	£9199
50 Mhz	N/A	£137.99

1mb by 8/9 SIMMS (1 Mb).....£34.99
4 Mb by 9 SIMMS (4 Mb).....£144.99
1 Mb by 4 DRAMS(1Mb).....£39.99
1 Mb by 4 ZIPS(1/2 Mb).....£22.99
256 by 4 ZIPS.....(each) £5.49
256 by 4 DRAM (DILs).....(each) £5.49
DKB 1202 A1200 RAM board.....£84.99
takes 2 32 bit SIMMs. Has an optional FPU. See above for prices
Kickstart 1.3.....£19.99
Kickstart 2.04.....£24.99
Kickstart 2.05 (for use in A600)...£26.99
Fatter Agnes 8372A.....£26.99
Super Denise.....£18.99
6571-0326 Keyboard controller.£13.99
CIA 8520A I/O controller.....£8.99

AMIGA 1200 RAM

The HAWK CO-PROCESSOR & RAM

Realise the full potential of your A1200 with this trapdoor expansion. inc real time clock

1 MB RAM.....£94.99
2 MB RAM.....£134.99
4 MB RAM.....£194.99
8 MB RAM.....£389.99
1 MB & 20 MHz CO PRO....£144.99
2 MB & 33 MHz CO PRO....£194.99
4 MB & 40 MHz CO PRO....£289.99
8 MB & 40 MHz CO PRO....£489.99
FULL 2 YEAR WARRANTY

SUPRA A500 RAM

Simply the best! Fits onto the side expansion port Auto configures with no software patching.

8Mb pop to 2 Mb.....£159.99
8Mb pop to 4 Mb.....£214.99
8Mb pop to 8 Mb.....£319.99
8Mb pop to 2 Mb for 2000/1500 range..£149.99

GVP PRODUCTS

A500 products

HD8+/0Mb drive.....£127.99
HD8+/42Mb drive.....£197.99
HD8+/120Mb drive.....£297.99
PC286 Emulator for HD8+/A530.....£94.99

A1200 Products

33 Mhz 68882 for A1200 SCSI/RAM.....£77.99
External SCSI kit SCSI/RAM.....£47.99
NEW! A1230 MK II Accelerator Board
This new, improved board has all the same features as before, but with a DMA port allowing extra options (eg SCSI-II) to be added later.
40MHz 680EC30, 0MB RAM, No FPU..£244.99
40MHz 680EC30, 4MB RAM, 40MHz FPU.....£544.99
50MHz 68030, 0MB RAM, No FPU.....£374.99
Other configuratons available.....£POA

A1500/2000/4000 Products

similar to the old HD8 series
4008+/42Mb hard drive.....£197.99
4008+/120Mb hard drive.....£297.99

Miscellaneous Hardware

Overdrive 35 External hard drive case.....£139.99
XDS Dataflyer External Hard drive kit.....£64.99
DKB Mega Chip II (2Mb chip RAM)..£169.99
gives 2 Mb of chip memory on A500/A1500/2000

SPECIAL OFFERS!

Directory Opus 4.....£45.99
Distant Suns 4.2.....£38.99
Deluxe Paint 4 AGA.....£49.99
Kindwords 3.....£24.99
Make Path for Vista.....£25.99
Maxiplan 4 spreadsheet.....£24.99
Scala 1.13.....£49.99
Pagestream 2.2 DTP.....£64.99
XCopy Pro plus hardware.....£25.99
Technosound Turbo.....£18.99
Technosound Turbo 2.....£25.99
Terraform.....£25.99
Vista Pro 3.....£45.99
Wordworth 2 AGA.....£34.99

ROCHARD DRIVES for the A500/A500+ from £179.99 (40Mb)
GVP HC8+ from £199.99

Mega Lo Sound.....£25.99

SCANNERS

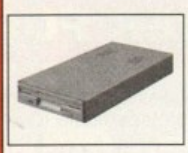
Power Scanner V4 £119.99
With the latest version 4 s/w for bright & sharp grey scale performance. Flexible scanned image display manipulation options, plus Clean up, embolden, resize & flip.
Colour version only £239.99
EPSON GT6500 Colour Flatbed only £587.50 phone for details
Art Department Pro Scanner S/W..£109.99
compatible with Epson ES300C, ES600C, ES800C, GT6000, GT6500 & GT8000

MICE & TRACKERBALLS

Alpha Data Mega Mouse 90% rating. 290 Dpi..£12.99 or £14.99 for 400 Dpi version
DATALUX CLEAR MOUSE High quality clear 2 button mouse.....£19.99
Zydec Trackball.....£29.99
Golden Image Trackbail.£37.99

DISK DRIVES

NEW! Golden Image drive with LCD track display....only £49.99



NEW! AMITEC 1 mb 3.5" drive
Features Anti Click, Anti Virus, Sony Mech, 2 year warranty
only £58.99

Cumana 3.5".....only £56.99
1 meg external drive. The best name in disc drives
A600/1200 internal drive.....£53.99
A500 internal drive.....£49.99
A4000 internal HD drive.....£99.99

PICASSO II

New generation retargetable graphics has arrived with this true 24 bit graphics board for the A2000/3000/4000.

1Mb version.....£299.99
2Mb version.....£335.99

GENLOCKS

VHS VHSC SVHS SVHSC Video 8 Hi8

hama ON DEMO NOW!
The Professional answer
hama 292.....£269.99
S-Video, and composite compatible
hama 290.....£674.99
S-Video, and composite mixing, plus far more
GVP Genlock.....only £297.99
features professional SVHS output
Rocgen Plus.....only £152.99
Includes dual control for overlay and keyhole effects, extra RGB pass thru. Now A1200 compatible!
Rendale 8802 FMC..only £164.99
Rocgen Rockey.....only £152.99
For creating special effects in video production with genlocks.

ROMBO PRODUCTS

VIDI 12 Real Time £134.99
Real time colour digitizing from any video source. Full AGA support
VIDI 24 Real Time £223.99
24 bit quality real time colour digitizing from any video source. Full AGA support
VIDI 12 AGA £70.99
Full support for AGA chipset. Colour images captured in less than a second, mono images in real time with any video source. Multitasking s/w, cut & paste.
VIDI 12 Sound & Vision AGA with built in MegamixMaster £98.99
TAKE 2 £35.99
Features include load and save from D. Paint animations and IFF files. Supports HAM graphics.
Megamix Master.....£26.99
8 bit, high spec. sampler. Special effects include echo that can be added in real time, fully multitasking & easy to use.

ACCELERATORS

MICROBOTICS

New M1230 for A1200 withup to 128 Mb fast RAM!
M1230 XA 33Mhz, 0Mb.....£245.99
M1230 XA 40Mhz, 0Mb.....£264.99
M1230 XA 50Mhz, 0Mb.....£329.99
See "RAM & CUSTOM CHIPS" section for prices on Co-pro's and 32 bit RAM.

SUPRA 28 ACCELERATOR for the A500/A500+& A1500/2000
28 Mhz, uses A500 side port so there is no internal fitting
only £139.99!

PRIMA ROM SHARERS

This high quality ROM sharer features a flexible ribbon connection so that it can be positioned anywhere within your A500 Plus or A600. Full 2 year replacement warranty
now only £19.99 or £27.99
for keyboard switchable version

ACCESSORIES

Real Time A1200 internal clock module...only £12.99
Mouse/joystick manual port switcher.....only £13.99
Computer Video Scart Switch.....only £19.99
2/3/4 way Parallel port sharers £POA
Amiga Sound Enhancer Plus by Omega Projects. Hear the Amiga's sound like you've never heard it before! £36.99
QUALITY MOUSE MATS.....£3.99
10 CAPACITY DISK BOX.....£0.99
20 CAPACITY DISK BOX.....£2.99
40 CAP LOCKABLE DISK BOX.....£3.99
100 CAP LOCKABLE DISK BOX.....£5.49
*90 CAP STACKABLE BANX BOX.....£9.99
*150 CAP STACKABLE POSSO BOX.....£17.99
*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.
AMIGA A500 DUST COVER.....£3.99
AMIGA 600 COVER.....£2.99
14" MONITOR DUSTCOVER.....£6.99
12" MONITOR DUSTCOVER.....£5.99
AMIGA TO SCART CABLES.....£9.99
STD 1.8 METRE AMIGA PRINTER LEAD....£4.99
MODEM AND NULL MODEM CABLES.....£9.99
AMIGA CONTROL STATIONS
A500 or 1200 VERSION.....£36.99
A600 VERSION.....£29.99

DISKS

All disks are 100% error free guaranteed
New High density 3.5 inch bulk and branded
Please phone for best prices!

QTY	Bulk DS/DD	Branded DS/DD
10	£4.49	£5.49
30	£12.99	£14.99
50	£20.99	£22.99
100	£37.99	£42.99
200	£69.99	£79.99
500	£168.99	£190.99
1000	£324.99	£365.99

Branded disks come complete with labels
Disk Labels....500.....£6.99
Disk Labels..1000.....£9.99

SOFTWARE

BUSINESS

Gold Disk Office U.K.spec.....£45.99
Maxi Plan 4.....£24.99
Mini Office.....£38.99
Money Matters.....£35.99

MISCELLANEOUS

Distant Suns 4.2.....£38.99
GB Route Plus.....£45.99
XCAD 2000.....£97.99
XCAD 3000.....£289.99

MUSIC/SOUND

Audio Engineer Plus V2.....£168.99
Clarity 16 sampler.....£105.99
Deluxe Music Construction Set v2.....£59.99
Pro Midi Interface by Microdeal.....£24.99
Stereo Master.....£29.99
Techno Sound Turbo.....£18.99
Techno Sound Turbo 2.....£25.99

PROGRAMMING

Amos Creator.....£34.99
Amos Compiler.....£21.99
Amos 3D.....£25.99
Amos Professional.....£47.99
Amos Professional Compiler.....£24.99
Bliz Basic 2.....£53.99
Devpac 3.....£50.99
Easy AMOS.....£24.99
SAS C Version 6.5.....£234.99

PUBLIC DOMAIN Top 30 from £1.50! (many more titles available)

Ami Base Pro v1.8	(PDA001)	1 disk £1.50
Disk Salv V2	(PDA003)	1 disk £1.50
D-Copy V3	(PDA004)	1 disk £1.50
Edword Pro V4	(PDA005)	1 disk £1.50
Easy Calc Plus	(PDA006)	1 disk £1.50
Fairlight Virtual Dreams	(PDA008)	1 disk £1.50
Grapevine 17	(PDA009)	3 disk £2.75
Relokick 1.3	(PDA011)	1 disk £1.50
Klondyke AGA	(PDA013)	3 disk £2.75
Last Stand in Hoth	(PDA014)	4 disk £3.50
Mindwarp AGA Demo	(PDA015)	1 disk £1.50
Motorola invaders AGA	(PDA016)	2 disk £2.25
Magic Workbench Utils	(PDA017)	1 disk £1.50
Point of Sale Demo 1200 only	(PDA018)	1 disk £1.50
PC Task Emulator	(PDA019)	1 disk £1.50
Reorg V3.1	(PDA023)	1 disk £1.50
Spectrum Emulator version 1.7	(PDA027)	1 disk £1.50
Spectrum Games Disk	(PDA028)	1 disk £1.50
TRSI Misery Demo	(PDA029)	1 disk £1.50
Fit Chix	(PDA030)	2 disk £2.25
9 Fingers Rave Demo	(PDA033)	2 disk £2.25
Mean CD Machine	(PDA036)	3 disk £2.75
Fit Chix 2	(PDA034)	2 disk £2.25
The Mini AGA	(PDA009)	1 disk £1.50
CD32 Review	(PDA039)	2 disk £2.25
State of the Art	(PDA024)	1 disk £1.50
Andys Workbench 3 Utils	(PDA031)	1 disk £1.50
Desert Dreams Demo	(PDA012)	2 disk £2.25
Origin Complex	(PDA040)	1 disk £1.50
Ray World AGA Demo	(PDA041)	1 disk £1.50
Revelations	(PDA020)	1 disk £1.50
Mr Men Olympics	(PDA026)	2 disk £2.25
Road to Hell	(PDA032)	1 disk £1.50
Kefrans Desert Dreams	(PDA012)	2 disk £2.25

UTILITIES

Ami.....£44.99
Amiback Tools.....£39.99
Amiback Plus Tools Bundle.....£74.99
AMIGA Release 2.1 software upgrade.....£49.99
Cross Dos V5.....£36.99
Directory Opus 4.....£45.99
GP FAX 2.3 software.....£49.99
Giga Mem.....£51.99
Quarterback V6 NEW!.....£52.99
Latest version of this Fast & Famous hard disk backup utility.
Prima A600/1200 Hard Drive setup software. This is the best setup software on the market.....£5.99
Quarterback Tools.....£54.99
Quarterback Tools Deluxe.....£64.99
Xcopy Pro inc. hardware.....£25.99
Trap Fax professional fax s/w.....£74.99

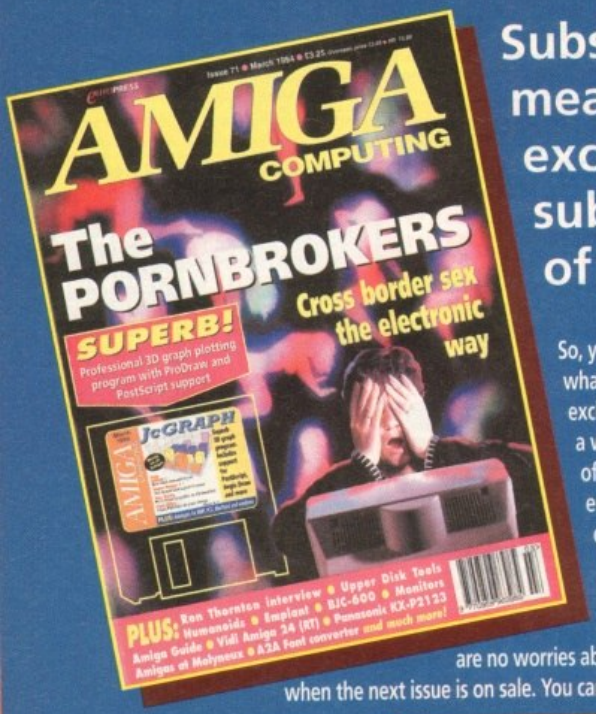
VIDEO AND GRAPHICS

37 Compugraphic fonts Vol 1, 2, or 3 by GT.....£9.99
Adorage.....£67.99
Art Department Pro 2.5.....£145.99
Art Department Scanner software.....£114.99
Brilliance Pro. paint and animation.....£119.99
Caligari 24 3D Design and animation.....£94.99
Deluxe Paint 3.....£12.99
Deluxe Paint 4 AGA.....£49.99
Image Master RT.....£149.99
Make Path for Vista.....£25.99
Morph Plus.....£147.99
Morphus by Impulse for Imagine.....£59.99
Pixel 3D Pro NEW!.....£99.99
Real 3D Classic.....£77.99
Real 3D V2.....£389.99
Scala 1.13.....£49.99
Scenary Animator V4 (3Mb reqired).....£49.99
Terraform.....£25.99
Video Director.....£115.99
Video Master.....£49.99
Vista Pro 3 (4Mb required).....£45.99

WORD PROCESSING/DTP

Final Copy 2 (UK) Release 2.....only £66.99
built in outline fonts, full graphics import (IFF and HAM), UK thesaurus, spelling checker & much more.
Final Writer DTP NEW!.....£99.99
Kindwords V3.....£24.99
Penpal 1.4.....£29.99
Best selling feature packed word publisher with database
Pagestream 2.2 U.K. version.....£64.99
Pagestream 3 U.K. version.....£249.99
Pagesetter 3.....£42.99
Pro Page V4.....£109.99
Pro Page V4 & Pro Draw 3.....£139.99
Protext 4.3 W/P.....£39.99
Prowrite 3.3 NEW!.....£45.99
The Publisher DTP.....£24.99
Wordworth 2 AGA.....Special low price! £34.99
Wordworth 3 NEW!.....£107.99

Subscribe to the top value



Subscribing to **Amiga Computing** means you reap all the benefits of the exclusive treatment you'll receive as a subscriber, and you get to choose one of these great **free gifts** as well

So, you're wondering, what exactly is this exclusive treatment? It's a whole range of things that ensure you get your copy of Amiga Computing without any fuss or effort. As a subscriber there are no worries about remembering when the next issue is on sale. You can watch your favourite soap or have a lie in, because you won't be scrambling down to the newsagents. You'll be content in the knowledge that you are part of the select, because your copy of Amiga Computing is reserved for you personally. Before the masses have even thought about their monthly expedition to the shops you'll have had your copy for a few days, delivered direct to your door, postage free.

Direct Debit subscriptions ONLY £8.49

Not only do you already know the latest news and gossip, but you've also had first pick of the bargains on offer. Subscribing by direct debit means you save money and get an extra issue each year.

SUBSCRIPTION ORDER FORM

Choose either a 12 issue or a quarterly subscription, which will start from the earliest possible issue

● **I would like the following 12 issue subscription:**

New	Renewal		
☐ 9642	☐ 9643	UK Subscription	£39.95
☐ 9644	☐ 9645	EEC Subscription	£54.95
☐ 9646	☐ 9647	Rest of World Subscription	£74.95
☐	☐	Canada/USA *	$98

* *Canada & USA subscribers send to: Europress (North America), Unit 14, Bysham Drive, Woodstock, Ontario, NT4 1P1, Canada. Tel: 519-539-0200, Fax: 519-539-9725*

● I wish to pay by:

Cheque/Eurocheque/Postal Order payable to Europress Enterprise Ltd

☐ Credit Card Expiry Date ___/___

Card No ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐

● Deliver my magazine to:

Name (Mr/Mrs/Miss/Ms) _____

Address _____

_____

Postcode _____ Daytime phone no _____

● I would like a UK quarterly direct debit ongoing subscription

9648 ☐ £8.49 per quarter (Complete the form below)

Quarterly Direct Debit Instruction

AUTHORITY TO YOUR BANK/BUILDING SOCIETY TO PAY DIRECT DEBITS

Name of bank/building society _____

Address _____

_____

_____

Name of account _____

Your account no. ☐☐☐☐☐☐☐☐

Sort code ☐☐ ☐☐ ☐☐

Signature(s) _____

Date _____

FOR OFFICE USE ONLY

Originator's Identification No.

Ref No. 8 5 1 4 1 2

Your instructions to the bank/building society:

- I instruct you to pay Direct Debits from my account at the request of Europress Ltd.
- The amounts are variable and may be debited on various dates.
- No acknowledgement required.
- I understand that Europress may change the amounts and dates only after giving me prior notice.
- I will inform the bank/building society in writing if I wish to cancel this instruction.
- I understand that if any Direct Debit is paid which breaks the terms of the instruction, the bank/ building society will make a refund.

Bank/building society may decline to accept instructions to pay Direct Debit from some types of accounts.

● Tick which free gift/special offer you want:

9586 ☐ Mastering Amiga Beginners (Add £3.95 to the cost of your subscription. If paying by direct debit please pay this by cheque or credit card

9576 ☐ Two free issues and a magazine binder

9584 ☐ Alpha Data Mega Mouse and Logic 3 mouse mat

9587 ☐ Zool II – all machines

9587 ☐ Zool II – A1200 enhanced version

● Send this form to:

Europress Direct, FREEPOST, Ellesmere Port L65 3EA. (No stamp needed if posted in UK.)

guide for your Amiga!

Take out a subscription and you can pick a winner!

Choose one of these free gifts or special offers

● Two extra issues plus an elegant Amiga Computing magazine binder

Save £13.93

Subscribe to ***Amiga Computing*** and we'll send you a high quality, exclusive Amiga Computing magazine binder. These specially produced binders will keep your magazines in mint condition, providing an excellent reference point, as well as keeping them stored away neatly. As well as this useful binder you also get two extra magazines. Your 12 issue order is extended up to 14 issues, at no extra cost, so you get 14 fact-packed issues for the price of only 12.

● Alpha Data Mega Mouse and Logic 3 Mouse Mat

Save £18.99

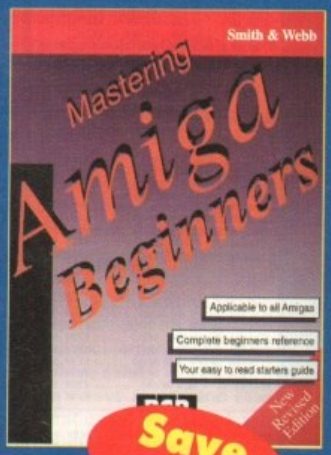
The well known Alpha Data Mega Mouse has ultra high 260dpi resolution with opto-mechanical encoder. The reliable micro-switch buttons provide effortless finger-tip operation. You can have all this and a high quality Logic 3 mouse mat absolutely free when you subscribe.

SUBSCRIPTION HOTLINE
Tel: 051-357 1275
Fax: 051-357 2813

Mastering Amiga Beginners special offer

For only £3.95 this book will provide you with a solid grounding, through easy to understand step-by-step explanations. The computer terminology is explained at every stage and there are full descriptions of the software, hardware and new technologies, such as video and CD, which are available for use with your Amiga.

This superb book includes coverage of the A1200 and A600, Workbench familiarity, preferences, utilities, beginners AmigaDOS, programming, fonts, printers, graphics, music and sound, public domain, viruses, upgrading, comms, desktop video, multimedia and much, much more.



Save £16

Zool 2

This widely acclaimed game follows Zool's travels through a further six huge levels, larger than those in the original, that feature a number of different ways of completion.

Zool has new and special abilities, including expert climbing skills and is now accompanied by his pet dog, Zoon. With great sound effects, hidden bonus rooms, highly intelligent enemies and the choice to play Zooz, Zool's girlfriend, Zool 2 makes an excellent free gift.

Zool 2 is suitable for any machine, though A1200 owners can choose an enhanced version (see order form).

Save £25.99

OPEN 7 DAYS

ALL PRICES INCLUDE VAT

TRILOGIC

UNIT 1,
253 NEW WORKS RD,
BRADFORD, UK,
BD12 0QP Est 1984
FAX 0274 600150

SALES 0274 691115

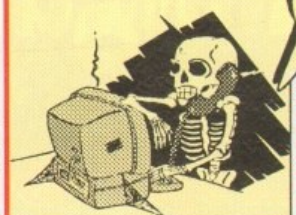
ACCESS VISA
SWITCH DELTA
CONNECT AMEX
SWITCH CARDS ACCEPTED FOR TELEPHONE ORDERS

FAST PROFESSIONAL MAILORDER SERVICE. SAMEDAY DESPATCH

1) Order by phone using your credit, charge, or debit card.
2) Order by Mail - sending cheque bankers draft or postal orders payable to TRILOGIC.
3) Please add part postage & packing of £1.00 to small orders under £100 or £2.00 to small orders over £100. Large/heavy or fragile items sent by carrier only: 48HR £5.50; Overnight £7.50 Uk Mainland only. Scottish Highlands £9.50; N.IRELAND. £12.00; EIRE +£20 UK Saturday delivery £14.00 (Not available to Scottish Highlands) Goods remain our property until paid for. *Subject to goods being in stock.

AMIGA 1200 HARD DRIVES

COMPARE THESE PRICES



This poor chap should have come to us for his AMIGA 1200 HARD DRIVE *-we've got them in stock at low low prices.*

40 MEG	only £129.99
64 MEG	only £159.99
80 MEG	only £179.99
170MEG	only £219.99
210MEG	only £234.99
250MEG	only £259.99
340MEG	only £299.99
420MEG	only £349.99
540MEG	only £449.99

YOU CAN'T GO WRONG...
ALL OUR DRIVES FIT INTERNALLY WITH NO MODS TO CASE, OR FLOPPY DRIVE.
All drives are formatted, partitioned & FULL workbench is installed so they are ready to use.

PRICE INCLUDES:
- FREE FITTING WHILE U WAIT
- FORMATTED & PARTITIONED
- FULL WORKBENCH INSTALLED.
- 12 MONTHS WARRANTY.
- JUST PLUG IN & GO.
- ONLY REPUTABLE MAKES USED
- FREE UTILITIES worth £19.99 see opposite for details.
- COLLECTION SERVICE

Not local ? - we collect fit, & return by overnight carrier for only £19.99 extra. (Mainland only)

AND REMEMBER
If we fit the drive, we cover your computer for the remainder of its 12month warranty.

COMPARE OUR DRIVES TO EXTERNAL UNITS.
< AVAILABLE NOW"
< LOWER COST
< NO RELIABLILITY PROBLEMS
< NO COMPATIBILITY PROBLEMS
< PCMCIA SLOT REMAINS FREE
< 100s OF SATISFIED CUSTOMERS

Why risk fits and have to pay in advance for complicated external PCMCIA units which have proved unreliable in the past. Despite what you may have read, our hard drives involve NO cutting of the case, NO drilling of holes, NOR removal of the floppy drive.
*Most sizes available from stock

HARD DRIVE 1200s AT LOW PRICES

FROM THE UKs No. 1 AMIGA HARD DRIVE SPECIALISTS

A1200 NO HD	ONLY £279.99
A1200+40MEG	ONLY £399.99
A1200+64MEG	ONLY £439.99
A1200+80MEG	ONLY £454.99
A1200+170MEG	ONLY £499.99
A1200+212MEG	ONLY £514.99
A1200+250MEG	ONLY £539.99
A1200+340MEG	ONLY £579.99
A1200+420MEG	ONLY £619.99
A1200+540MEG	ONLY £699.99

OPTIONAL 2ND YEAR WARRANTY £27.99
ALL PRICES INCLUDE 12 MONTHS WARRANTY covering computer & drive. FREE COLLECTION/DELIVERY in the event of breakdown.
PRICES SHOWN ARE FOR RACE n CHASE PACK
ADD £50 FOR DESKTOP DYNAMITE PACK

AMIGA 4000

A4000 030EC

	2MEG	4MEG	6MEG
80M HD*	£979	£1079	£1129
130M HD	£999	£1099	£1149
170M HD*	£1029	£1129	£1179
212M HD*	£1049	£1149	£1199
250M HD*	£1069	£1169	£1219
340M HD*	£1099	£1199	£1249
420M HD*	£1149	£1249	£1299
540M HD*	£1249	£1349	£1399

PRICES INCLUDE FREE DELUXE PAINT 4 & WORDWORTH V2

4000 040LC/6MEG
(170 TO 540M HD VERSIONS ONLY)
ADD £450 TO ABOVE 030 6MEG PRICES
OVP SCSI INTERFACE £119.99

ADD PC COMPATIBILITY TO YOUR 2000,3000 OR 4000
VORTEX 486 25MHz PC CARD ... £499.99
VORTEX 486 50MHz PC CARD ... £649.99
BOTH PC CARDS HAVE 2.5MEG RAM
SVGA CARD for above from ... £49.99
GG FDD CONTROLLER CHIP £29.99
MONITOR MASTER enables VGA monitor to display PC & Amiga output. . £109.99

PRINTERS

PRICES DOWN

CITIZEN PRICES DOWN
CITIZEN SWIFT 90 MONO £149.99
CITIZEN SWIFT 90 COLOUR £159.99
CITIZEN SWIFT 240 MONO £204.99
CITIZEN SWIFT 240 COLOUR ... £229.99
CITIZEN SWIFT 200 MONO £179.99
CITIZEN SWIFT 200 COLOUR ... £194.99
PROJET II - NEW MODEL £239.99
PROJET II COLOUR £299.99

HP DESKJET DEALER
DESKJET 550 C £489.99
DESKJET 310 MONO £234.99
DESKJET 310 COLOUR £274.99
310-SHEET FEEDER £49.99

CANON DEALER
CANON BJ10SX £195.99
CANON BJC600 ..... £559.99
BJ10 AUTO SHEET FEEDER £49.99

MONITORS

SHARP TV MONITOR
14" SCREEN; FULL REMOTE CONTROL; RGB SCART SOCKET inc Amiga lead.
ONLY £164.99

MICROVITEC AUTOSCAN 14" *HI-RES* MONITOR
14" ANTIGLARE SCREEN, SWIVEL/TILT BASE, AUTO PICTURE SIZE; MULTISYNC - WORKS WITH ALL AMIGAS IN ALL MODES.
NEW only £299.99
NOW INC STEREO SPEAKERS
WORKS IN ALL 1200 MODES

MICROVITEC CUBSCAN 14
HI-RES COLOUR MONITOR
with Digital memory picture sizing for borderless display
NOW ONLY £399.99

32BIT RAM CARDS

0MEG	£69.99
1MEG	£94.00
2MEG	£124.99
4MEG	£194.99
8MEG	£389.99

BATTERY BACKED ON-BOARD CLOCK & FPU SOCKET

Made by Amitek
WITH OPTIONAL 68882 FPU.
20MHZ FPU ADD £49.00
25MHZ FPU ADD £59.00
33MHZ FPU ADD £69.00
40MHZ FPU ADD £99.00

A1200 ACCELERATORS

NEW GVP A1230-2 40MHz
With 68882 socket for FPU. Has two 32bit simm skts & expansion connector.
WITH no fpu & 0meg £299.99
WITH 4MEG no FPU £439.99
WITH 4MEG & 40MHz 68882 .... £539.99

NEW GVP A1230-2 50MHz
50MHz WITH no fpu & 0meg ... £364.99
50MHz WITH 4MEG no FPU £539.99
SCSI MODULE £74.99

VIDEO DEPT

GVP GENLOCK £289.99
MINIGENLOCK PRO £144.99

PRO VIDEO PROCESSOR
ONLY £149.99
A stand alone TWO input audio & VIDEO MIXER (with SVHS in/out). Has crossfade, fade to black, overlay; wipes, tint & 2 mic + stereo line inputs. AMAZING VALUE

VIDI 12	£ 78.99
VIDI 12RT	£179.99
VIDI 24RT	£249.99
GVP IV 24 from	£989.99
GVP EGS SPECTRUM FROM	£339.99
EPSON GT65.00 COLOUR SCANNER	£689.99
EPSON GT8000 COLOUR SCANNER	£1189.99
ADSG SOFNARE with scanner ..	£98.99
HAND SCANNER 64GREY 400DPI ..	£109.99

AMIGA 500 HARD DRIVES & UPGRADES

GVP SERIES II HD8+ 42 Meg	for A500 - PRICE DOWN -	£191.99
GVP SERIES II HD8+ 170meg	for A500 SPECIAL OFFER	£349.99
GVP SERIES II HD8+ 340meg	for A500 SPECIAL OFFER	£469.99
GVP SERIES II HC8	for A1500/2000/4000 - NO DRIVE	£119.99
GVP SERIES II HC8 + 42meg	for A1500/2000	£191.99
GVP SERIES II HC8 + 170meg	SPECIAL OFFER	£349.99
GVP SERIES II HC8 + 340meg	SPECIAL OFFER	£469.99

VORTEX AT ONCE CLASSIC 286 PC EMULATOR FOR A500 ETC £49.99
GVP PC286 PC EMULATOR CARD FOR SERIES II HARD DRIVES £99.99

A590 & GVP SCSI DRIVE UPGRADES EASY TO FIT.
170MEG £229.99
340MEG £319.99
420MEG £429.99
Suitable for GVP HDB/HC8/A530 & CBM A590

DIY FITTING

ANY DRIVE MAY BE PURCHASED FOR DIY FITTING AT THE ABOVE PRICES WHICH INCLUDE ALL CABLES & INSTRUCTIONS + FREE HARD DISK TOOLS & PREP DISK.
The drives supplied are exactly as fitted by us - ie ready to use.
If you already have a drive, the cables are available separately:-
2.5"/2.5" IDE CABLE £9.99
3.5"/2.5" ADAPTOR & CABLE £21.99
3.5"/2.5" ADAPTOR & LONG CABLE £24.99
(For connecting 3.5" drive externally)
DRIVE SIZES ARE APPROX & VARY WITH MAKE

TOP SOFTWARE

EDUCATIONAL TITLES SUPPLIED E

RESTOCKS, & NEW TITLES/VERSIONS IN RED	
ASDG SCANNER SOFTWARE	£109.99
ASDG PRO CONTROL	£59.99
ADI JUNIOR RANGE	£14.99 E
ADI RANGE	£17.99 E
ALADDIN 4D V3	£199.99
AMOS	£31.99
AMOS - EASY	£23.99
AMOS 3D	£22.99
AMOS COMPILER	£19.99
AMOS PROFESSIONAL - DOWN TO	£17.99
AMOS PRO COMPILER	£23.99
ART DEPT PRO AGA 2.5	£149.99
BARS AND PIPES PRO V2	£229.99
CROSS DOS V5	£34.99
DAY by DAY	£24.99
DELUXE PAINT 4AGA	£64.99
DELUXE MUSIC 2	£64.99
DEVPAC 3	£57.99
DIRECTORY OPUS V4 ..... ONLY	£48.99
DISTANT SUNS V4.2	£49.99 E
ECLIPS 1 OR 2	£49.99
EDITAVIE	£189.99
FINAL COPY 2 r2 NEW VERSION	£67.99
FINAL WRITER	£99.99
FUN SCHOOL 3 RANGE	£14.99 E
FUN SCHOOL 4 RANGE	£17.99 E
GIGAMEM	£54.99
GB ROUTE PLUS	£35.99
GOLD DISK OFFICE 3	£44.99
HYPERCACHE	£37.99
HISPEED PASCAL	£72.99
HISOFT BASIC	£49.99
IMAGEMASTER RT	£199.99
KID'S PIX	£19.99
LATTICE/SAS C V 6.1+	£279.99
MAKEPATH FOR VISTA	£29.99
MULTIDOS PLUS	£19.99
MAXIPLAN V4	£25.99
MERLINS MATHS	£17.99 E
MEDIA POINT	£299.99
MICRO RANGE	£17.99 E
MINI OFFICE BARGAIN ..	£38.99
MONEY MATTERS	£49.99
MUSIC X 1-1	£24.99
NODDY'S PLAYTIME	£17.99 E
NODDY'S BIG ADVENTURE	£17.99 E
PAGESETTER 3	£41.99
PAINT n CREATE	£17.99 E
PAGESTREAM 2.2	£69.99
PENPAL STILL ONLY ...	£35.99
PLAYNATION	£289.99
PROFESSIONAL DRAW 3	£POA
PROFESSIONAL PAGE 4	£99.99
QUARTERBACK 6	£59.99
QUARTERBACK TOOLS DELUXE ...	£99.99
REAL 3D PROFESSIONAL V2	£149.99
SPELLING FAIR	£17.99 E
SUPERBASE PERSONAL 4	£119.99
SUPERBASE PROFESSIONAL 4 ...	£239.99
SUPERJAM 1.1+	£89.99
SYSTEM 3E	£59.99
TECHNOSOUND TURBO 2	£34.99
THEREAFORM	£26.99
THE PUBLISHER	£24.99
TURBOPRINT PRO V2	£34.99
UPPER HARD DISK TOOLS	£19.99
VIDEO DIRECTOR	£109.99
VISTA PRO 3	£57.99
WORDWORTH 3 AGA	£POA

BARGAIN BASEMENT - SAVE EVEN MORE

BLITZ BASIC 1	£9.99
BRILLIANCE	£119.99
CALLIGRAFI	£POA
EXPERT 4D JNR	£14.99
INTROCAD PLUS	£19.99
KINDWORDS 3	£19.99
MORPH PLUS	£89.99
MUSIC LIBRARIAN	£19.99
PERSONAL PAINT	£14.99
SCENERY ANIMATOR	£49.99
SYNTHIA PRO	£19.99
SCALA MM210	£124.99
TEKNO AMIGA ELECTRONIC KIT .	£29.99

COMPUTER MUSIC DEPT

MIDI INTERFACE £22.99
UNIQUE 5 PORT DESIGN COMPATIBLE WITH ALL AMIGA MIDI SOFTWARE
Midi leads 1.2m -£1.99 3m - £2.99

SUPERFI 2 STEREO SYSTEM
HI FI QUALITY £54.99
20WATTS BASS, TREBLE & VOLUME CONTROLS

FREE with All *HARD DRIVES & HARD DRIVE AMIGAS OVER 200MEG**

HARD DISK TOOLS
WORTH £19.99
Rated 88% in March '93 Amiga Format. Similar to Quarterback Tools Deluxe, but better. Complete with manual. *£15.99 with drives under 200meg; or available separately for £19.99

CHAOS PLUS PACK
£19.99
CHAOS ENGINE
SYNDICATE
PINBALL FANTASIES
NICK FALDOS CHAMPIONSHIP GOLF
QUALITY JOYSTICK
MOUSE MAT
DUST COVER
+ FREE EXTRA GAME (our choice)
NEW
+ FREE £19.99 WITH ANY HARD DRIVE ONLY £19.99 WITH ANY HARD DRIVE AMIGA. Standard Chaos Pk AVAILABLE SEPARATELY FOR £29.99
LIMITED STOCKS A1200 / 4000 ONLY

BACKUP UTILITIES

X COPY PRO £25.99
Inc MK2 Cyclone adaptor.
MK 1 CYCLONE ADAPTOR £9.99
QUARTERBACK V6 £50.99
NB. Making backups without the permission of the copyright holder is illegal.

DIY HARD DRIVE KIT

AMIGA 600/1200
XDS 3.5" HARD DRIVE HOUSING KIT
* COLOUR MATCHED ALLOY CASE
* TAKES 3.5" IDE DRIVES
* IDE ADAPTOR & 2.5" CABLE inc power connector.
* HD INSTALL / PREP DISK
* EXTERNAL PSU SOCKET
NOW ONLY £59.99
2.5" TO 2.5" IDE CABLE £9.99
3.5" TO 2.5" ADAPTOR & CABLE £21.99

BOOKS & VIDEOS

MASTERING AMIGA AREXX	£21.95
MASTERING AMIGA DOS 2 VOL 1	£21.95
MASTERING AMIGA DOS 2 VOL 2	£19.95
MASTERING WORKBENCH	£19.95
MASTERING AMIGA DOS 3 VOL 1	£21.95
MASTERING AMIGA DOS 3 VOL 2	£21.95
MASTERING AMIGA C	£19.95
MASTERING AMIGA PRINTERS ...	£19.95
MASTERING AMIGA ASSEMBLER ..	£24.95
MASTERING AMIGA SYSTEM	£29.95
MASTERING AMIGA AMOS	£19.95
A600 INSIDER GUIDE	£14.95
A1200 INSIDER GUIDE	£14.95
A1200 THE NEXT STEPS	£14.95
ASSEMBLER INSIDER GUIDE	£14.95

VIDEOS

DELUXE PAINT 4 VIDEO	£12.99
ADVANCED DELUXE PAINT 4	£12.99

BEGINNERS PACK
Comprises A1200 Insider guide, A1200 Next Steps; Tutorial Video & useful software. GREAT VALUE AT ... £39.99

SPARES & MISC

TV MODULATOR (exchange)	£19.99
1520 TV MODULATOR - NEW	£29.99
PARNET CABLE 2M LONG	£19.99
KICKSTART 1.3 ROM	£29.99
KICKSTART 2.04 ROM	£29.99
8520A I/O CHIP	£15.99
A500 INTERNAL DRIVE	£59.99
GVP GENUINE PSU	£69.95
A1200 INTERNAL CLOCK MODULE	£15.99

3.5" AMITEK DRIVE

ONLY £54.99
ANTI VIRUS, ANTI CLICK, DISABLE SWITCH, THRU PORT, STEEL CASE, FOR ALL AMIGAS. 2YR WARRANTY.

MISCELLANEOUS ITEMS

AMIGA PRINTER PORT EXPANDERS (FREE CABLE WORTH £10.99)
2way - £24.99 inc cable
3way - £27.99 inc cable
4way - £29.99 inc cable
For connecting upto 3 devices to your computers PRINTER PORT. Switch to computer lead included!- State 'LONG' for printers; or Short for Digitiser, scanner & samplers.

SEAL N TYPE KEYBOARD SKINS £12.99
KEEPS OUT DUST & LIQUIDS.
Fit snugly over your keyboard - moulded to fit over each key, but flexible enough to type through unhindered. Available for all AMIGAs - please state which.

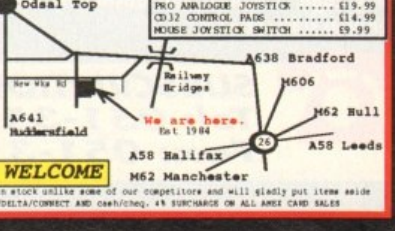
MONITOR LEADS
CD 32 RANGE available - please enquire.

AL1 - MOST TVs WITH SCART SOCKET TO ALL AMIGAS inc audio lead ..	£13.99
AL6 AMSTRAD CPC 464 MONITOR	£13.99
AL6B AMSTRAD STEREO MONITOR	£14.99
AL7P CM883/1084S MONITOR TO ALL AMIGAS inc sound lead	£14.99
AL11 9PIN MALE MULTISYNCS LEAD TO ALL AMIGAS	£12.99
AL12 15PIN FEMALE 3ROW Many multisync monitors	£14.99
AL13 15PIN MALE 3ROW Many multisync monitors	£14.99
PRODUCTIVITY LEAD FOR MULTISYNC MONITORS 9 or 15 plug or skt	£19.99
MODULATOR EXTENSION LEAD - Reduces modulator overhang	£10.99
MONITOR SWIVEL - HEAVY DUTY	£12.99
A1200 WORKSTATION	£19.99
A600 WORKSTATION	£19.99

MICE & JOYSTICKS

BEETLE MOUSE	£15.99
LEGEND BALL	£29.99
ECLIPSE MOUSE	£14.99
MEGA MOUSE 2	£12.99
MEGA MOUSE 400DPI	£14.99
LOGIPAD CONTROLLER	£16.99
STARFIGHTER CONTROLLER	£8.99
PYTHON JOYSTICK	£8.99
TOPSTAR JOYSTICK	£14.99
EIPSTICK AUTOFIRE	£12.99
PRO ANALOGUE JOYSTICK	£19.99
CD32 CONTROL PADS	£14.99
MOUSE JOYSTICK SWITCH	£9.99

E&OE. Please phone before calling to confirm price & availability.
(C) TRILOGIC 1994
All rights reserved.
OPEN:
MON-FRI 8-6pm,
SAT 8-4.30
SUN 10-3pm



CALLERS WELCOME

PRICES WERE CORRECT AS OF 11-3-94, but some may have changed by the time you read this. All registered Trademarks are acknowledged.Callers are most welcome but please phone first to check availability & avoid disappointment - we try to keep most items in stock unlike some of our competitors and will gladly put items aside for you to collect, but shortages of some items do occur from time to time. 2% surcharge applies to some items paid by Credit card - does NOT APPLY to debit cards - ie SWITCH/DELTA/CONNECT AND cash/cheq. 4% SURCHARGE ON ALL AMEX CARD SALES

Going back to basics?

star letter

Are you moral crusaders? I thought I'd bought a computer magazine (March 1994 issue – Ed) but it turned out to be a copy of *The Watch Tower* instead. This really is too much. First of all, the entire porn question has been completely blown out of proportion. Even some of the so-called revelations in *The Cook Report* have since been discredited as TV cheating, but here we are with yet another sad attempt by *AC* to improve sales figures by morally castigating the issue while making sure that everyone knows there are dirty piccies inside.

This isn't the first time you've done this, but for me it's the last. Even if you are serious in your staunch moral outrage (though given the number of topless pictures you printed I doubt it), what gives you the right to preach to me?

And as for some of your more salacious claims – what crap! Yes, there are sick and perverted people out there, and yes I have no doubt that there are some using computer technology to push their sick wares, but 99 per cent of all BBSs and PD clubs stock nothing more outrageous than Erica whatsit from *Baywatch* showing her, er, charms.

Let's face it, if this is your idea of porn then the tabloids print stuff just as pornographic. Personally I don't see anything wrong with these types of collection.

They certainly brighten up the rather boring backdrops you get with Windows and Workbench, and before anyone starts accusing me of being a MCP, two girlfriends of mine use Chippendale backdrops on their machines.

By constantly (and cynically in my view) pursuing this "your child can get hardcore perversity from almost any PD club" route, you are now doing this country a lot of harm. Why?

Well, this country cannot move forward or compete unless we have a new generation who are computer literate. How many children didn't get computers which Christmas because mum and dad thought little Tommy might end up becoming involved in a sordid porn circle? I am not suggesting that we should just ignore the problem of the real disgusting stuff, but please let's get it into proportion and quit the sensationalist approach.

Darren Smithson, Reading

You admit only in your final paragraph that we have a problem with the "real disgusting stuff", yet your letter shows that you misunderstood the purpose and content of the article.

We have not and never will be morally outraged over page three-style images sold openly by PD libraries. This is legal and, in the eyes-of most reasonable people, acceptable so long as it is sold to adults.

The recent articles in *AC* concerning computer pornography (May 1992 and March 1994) have concentrated almost exclusively on those images and animations which are obscene and which would certainly fall foul of the Obscene Publications Act.

By highlighting the deficiencies in the law and the way in which computer porn was (in the past at least) policed, we feel we have made a constructive and objective journalistic contribution to the computer industry as a whole.

You say that 99 per cent of PD is perfectly clean, but this was not the case before our May 1992 article, and the situation has only improved since increased public pressure brought about by the mainstream press and TV prompted further action by the authorities.

Read *The Guardian*'s 23 February edition to see how our "sensationalistic" coverage can have an effect on the wider press, then tell me that we are in the wrong to attack a new angle on the pornography problem.

European bulletin boards working as commercial companies selling nothing but obscene pornography across the UK's borders with nothing to stop them doing so is a completely new development and had we ignored it we would have been guilty of far more than risking offence to some of our readers.

We printed the images you find distasteful precisely because we too thought them distasteful. Had legal advice not cautioned otherwise, we would have included an example of bestiality, a subject which most of us find it hard to believe exists.

You don't have to see too many digitised animations of women having oral sex with Irish wolf hounds to decide that we have a problem which demands attention.

Would Parliament have debated amending the Obscene Publications Act to include BBSs, and would TV and Fleet Street have taken an interest without the lead given by specialist publications such as *AC*? Probably, but it is doubtful if they would have given computer porn the attention it has received to date.

➤

New system

I have bought your magazine for two years and I'm generally pleased with it. Each month I usually find an article or a review I'm interested in and I can return to the others as the month goes on.

One thing that's always annoyed me, though, is the general tone of the mag. Some of the reviews are a bit too technical even for a fairly knowledgeable person, and the games section seems designed for 16-year-olds.

The result is that I often find 30 or more pages do not interest me because they either blind me with science or treat me like a school boy. This is a waste of money, and considering the average price of a magazine is £4 with an average 180 pages, I spend about 64p for nothing.

Ian Peterson, Gosport

Your reaction to some parts of the magazine was one which we found commonly expressed in our reader survey carried out last year, and since then we've been looking at ways of fitting the magazine better to the tastes and preferences of our readers. The upshot is the new look we've introduced this month, and we hope you like it.

➤

***Amiga Computing* has no wish to sensationalise the pornography issue, and has never cynically used it as a sales booster (two articles in two years is hardly a record of consistent exploitation), but we will never take our eyes off the issue and if another new twist in this already twisted strand comes to the surface we will certainly run another piece on it.**

That's what we're here for, and if the video industry had had a healthy independent press during the early 70s it is possible that the industry's image would not have been so badly damaged by the flood of XXX-rated videos which hit these shores. They might even have closed the legal loopholes as quickly as they have closed those concerning computer porn.

C.O.D. solution

I have just read the letter from Ian Belmont in Carlisle in the March 1994 issue of *AC* and would like to inform your readers that there is a foolproof method of obtaining goods from mail order companies that puts the purchaser at no risk whatsoever.

In the early 80s I purchased a Sinclair QL with a modem and used my credit card to pay. The cost of the item was over £300, my credit card was duly debited, but the goods never arrived and the company producing the modem went bust.

It took many months to have the transaction reversed and get my money back into my account, so I decided there had to be a better way. After a bit of searching around and finding out that it was impossible to get items on approval or return from computer retailers I mentioned my problem to a friend who works for the Post Office, who told me about the Post Office's cash on delivery service (C.O.D.).

This is a system whereby you can phone or fax an order to a supplier, they then take it to the Post Office and send it to you, you pay the postman for the package, and the Post Office then pays the supplier.

I have used the system since 1985 and have had no problems with it. Any supplier who refuses to send items C.O.D. just doesn't get my business.

There is a small charge for the service which the supplier always passes on to the customer, but because mail order is usually much cheaper than retail, the small charge is well worth it. I also find that items ordered C.O.D. tend to arrive very quickly, usually posted the same day they are ordered.

I believe that if the item's value is more than £50 you have to collect it from your local Post Office because the postie is only "bonded" to collect up to £50, but this is, I feel, far better than either travelling to the supplier or risking losing your money altogether.

It would be a good idea if all your advertisers could offer this service and state clearly on their advertisements whether or not C.O.D. is available.

Roger Barefoot, Larne

Got something to say through the pages of AC? Ezra Surf is our mailman, dedicated to reading your letters and selecting the most interesting for publication. Drop him a line at:

Ezra Surf's Postbag , Amiga Computing Adlington Park, Macclesfield SK10 4NP

Please don't enclose saes as Ezra just hasn't got enough paper to reply personally. He might also have to shorten your letters, so don't be offended if you end up getting the chop.

The C.O.D. system, much forgotten in these days of courier delivery and credit card phone sales, is indeed a sterling service offered by what is still a cheap and efficient national postal service, though how much longer the current government will allow this to go on before breaking it up and flogging it off bit by bit is anyone's guess.

Those who might be nervous about keeping large sums of money in the house in anticipation of the postman calling will be glad to hear that they can call at the bank before picking up the parcel at a local Post Office, so there's no reason not to give C.O.D a try.

Thanks for the timely reminder.

School absentee

Why isn't the Amiga used as an education computer? Many children will have an Amiga as a home computer, they will be familiar with the Amiga, and it would be easy for them to use their own machine for homework projects.

The Acorn is expensive and despite recent claims it is not the parents' choice as a home micro, nor is it common as a business machine. It is time Commodore hurt Acorn in the only real market they (Acorn) have got – the school.

Let's stop force feeding kids Acorns!

G Swain, Leeswood

Commodore have tried in the past to penetrate the education market, Class of the Nineties being their last marketing push, but have found the entrenched Acorns hard to shift.

The BBC micro was Acorn's first real education machine and it had the immeasurable advantage of television and government backing, so Acorn quickly took a commanding lead which the Archimedes – heavily price discounted to education authorities – was able to build upon.

Amigas and PCs have made inroads into the education market of late, but the Amiga has been hampered by lack of direct support from Commodore and a paucity of standard networking solutions.

Though we agree that education is an area in which the Amiga might find an improved market share, it is unlikely that schools will look much further than Macs and PCs because these days they try to prepare pupils for the practical uses of computers they will find on their desktops at work rather than simply teach them the rudiments of Basic programming and computer literacy.

More programming!

Why have you discontinued the programming tutorials you always used to run at the back of the magazine? I'm one of those people who learned most of his programming from magazine articles, but apart from Amos and a bit of AmigaDOS for beginners you seem to have abandoned the programmers among us.

Would it be too much to ask for a page a month on C or machine code? If you re-instated this sort of tutorial it would guarantee people like me at least one or two pages they'd read over and over again and make full use of. We don't all use the Amiga for DTP and video titling, you know!

Leslie Farrows, Milton Keynes

We dropped the programming column last year when we realised that few beginners were reading it because it assumed a certain level of competence, and the experts were frustrated by it because it was too basic for them. The plan was always to bring programming back, but we left it a little longer than at first intended.

In response to the reader survey, however, we decided to bring programming back with a bang. The Amiga Market section will from now on contain about four pages of tutorials.

To begin with we'll be looking at AmigaDOS and Assembler, but C and other languages should be covered if we think enough of you are interested in those languages.

Charity plea

We are writing to you in the hope that your publication and its readers can be of assistance to us. As a charity, we are now working in Russia, particularly St Petersburg, to try and bring some hope and happiness to sick children in two of the hospitals of this beautiful city.

Unfortunately, due to so many years of neglect and under-funding all the hospitals have become very run-down and neglected and many of them are in a terrible state. We are supplying a lot of their medical needs and have now undertaken to completely refurbish them.

However, there is one area in which your publication and its readers may be able to help us. The sick children of these two hospitals are in dire need of stimulation.

It is all the staff can do with their meagre resources to treat the children's medical conditions, and we are therefore appealing to all computer users everywhere to donate any games that they no longer want so that we can send them out to Russia for the sick children.

We have already been donated Amiga, Sega, and Nintendo games machines, and we have a team of translators sitting ready to translate the instructions into Russian.

We have also overcome the electricity conversion, so all we need now are games, but please do not send text or adventure games as the children can't read English.

Please help us to show how kind-hearted and caring the young people of the UK can be by sending us any unwanted games to the following address:

The Flanders Scottish Alliance
Russian Appeal
3/2 Academy Street
Edinburgh EH6 7EE

Mrs Gwen Brown, Project Director (reg' charity no. ED755/90)

GVP WORLD CLASS PERIPHERALS

AMIGA NEW PRODUCTS

RETURN THE COUPON FOR 64-PAGE AMIGA GUIDE

VIDEO GENLOCK
FOR ALL AMIGAS

This extremely high quality Amiga genlock, from GVP, has an intuition-based software control panel with full ARexx and command line interfaces. Easy to use, the G-Lock genlock features many sophisticated attributes among which are:

- *Two Composite Video Inputs or S-Video (Y/C) Input*
- *Simultaneous Composite & S-Video and RGB Output*
- *Video Processor - Real Time Software Control of Video Attributes (Sharpness, Gain, Brightness etc)*
- *ARexx Compatible*
- *Works with Flicker Fixers*
- *Multiple Keyer Modes*
- *Full Audio Support*

AMIGA GOLD VISMAC 94%

G-LOCK
~~£349~~
£299
INC VAT - VID 2500

NEW 40MHz & 50MHz ACCELERATORS
FOR AMIGA 1200

- *40MHz 68030EC and 50MHz 68030 Accelerator*
- *Unique Feature Connector for Module Expansion*
- *Built-in Memory Management Unit on 50MHz Version*
- *Optional 60ns 32Mb RAM Upgrade*
- *Battery Backed Clock*
- *Optional 40MHz or 50MHz 68882 Maths Co-Processor*
- *Sophisticated Memory Management and Cache Control Software*
- *Kickstart Remapping Technology*

TOP RATED CU-Amiga Feb '94 97%

The new GVP A1230-II, available in 40MHz 68030EC and 50MHz 68030 configurations, are the most advanced accelerators yet for the A1200. They can make your Amiga run 6x times (40MHz version) or 8x times (50MHz version) faster than the standard A1200 and feature unique module expandability.

MMU OR FPU?
The 50MHz version includes a built-in Memory Management Module (MMU), for more sophisticated memory control. An optional FPU (Floating Point Unit: for faster maths calculations) is available for the 40MHz and 50MHz versions (see below), both have RAM upgrade options (up to 32mb, see right).

UNIQUE MODULE EXPANDABILITY
The A1230-II is unique in that you can add further functionality to your Amiga by using expansion modules. GVP will be releasing a wide range of optional modules, the first being a high speed SCSI-2 interface. A 16-bit sound sampler and real time frame grabber will follow shortly. All modules can be fitted without invalidating the Amiga's warranty.

RAM UPGRADES
The A1230-II accelerator combo has two 32-bit SIMM sockets for easy Fast RAM expansion. The following SIMMs can be used in this slot.
- 1Mb 60ns Fast RAM SIMM - (RAM 3216) - £69 inc VAT
- 4Mb 60ns Fast RAM SIMM - (RAM 3246) - £199 inc VAT
- 16Mb 60ns Fast RAM SIMM - (RAM 3286) - £1299 inc VAT

SCSI-II EXPANSION MODULE
- *A1291 - Fastest SCSI Controller Yet*
- *DMA SCSI Design*
- *FaaaST ROM Controller*
- *High Speed, Unique DPRC Technology for Direct HD to Memory Transfer*

A1230-II SCSI EXPANSION MODULE
£79
inc VAT - UPG 1600

A1230-II PROCESSOR ACCELERATOR

40MHz 68030EC NO MMU				50MHz 68030 WITH MMU			
NO FPU			WITH 40MHz FPU	NO FPU			WITH 50MHz FPU
0Mb RAM	4Mb RAM	8Mb RAM	4Mb RAM	0Mb RAM	4Mb RAM	8Mb RAM	4Mb RAM
£249	£449	£649	£549	£379	£579	£779	£679
inc VAT - UPG 1243	inc VAT - UPG 1244	inc VAT - UPG 1246	inc VAT - UPG 1246	inc VAT - UPG 1530	inc VAT - UPG 1540	inc VAT - UPG 1580	inc VAT - UPG 1545

24-BIT GRAPHICS CARD
FOR A1500/A2000/A3000/A4000

EGS Spectrum is the answer to all your 24-bit graphics card requirements. It is a high performance, high resolution, 24-bit board that will take any Amiga 1500, 2000, 3000 or 4000 beyond AGA! But the hardware is only half of the picture. Without quality software, your investment will be wasted. Not only does GVP's own award winning graphics application ImageFX fully support EGS Spectrum, but also, using a Workbench driver, nearly all existing Amiga Workbench compatible applications will also work on and support the EGS Spectrum system.

- *1Mb or 2Mb of On-board Memory*
  2Mb gives, higher resolutions & more colours (1030x768 Vs 1600x1280)
- *On-board Hardware BLITTER*
- *Future Re-targetable Graphics Support*
- *Zorro II or Zorro III Autosensing*
- *Scan Rates up to 80KHz*
- *80,000,000 Pixels/sec Pixel Display Speed (8-bit)*
- *Programmable Display Resolution 320x200 to 1600x1280*
- *Supports Data Transfer Rates up to 12Mb/sec on Zorro III Systems*

EGS SPECTRUM

1Mb RAM	2Mb RAM
NEW! £349	NEW! £399
INC VAT - VID 7310	INC VAT - VID 7320

HARD DRIVE CARD
FOR A1500/A2000/A3000/A4000

The HC8+ is a high speed hard drive and RAM card which can also be used to increase your Amiga's RAM by up to 8Mb RAM.

A FULLY FEATURED SCSI INTERFACE FOR A4000s

- *High Speed DMA SCSI Controller Can Handle up to 7 Devices*
- *Ultra Fast Access SCSI Hard Drive Option - See Below*
- *Supplied Unpopulated, the HC8+ can be Upgraded to Give You up to 8Mb of FAST RAM - See Below for Details*
- *Direct Memory Access Style Design for Top Speed Transfer*

HC8+ HARD DRIVE CARD

0Mb HD	120Mb HD
—	~~£369~~
£129	£229
INC VAT - HAR 1300	INC VAT - HAR 1422

RAM UPGRADE CARDS
GVP HC8+ INCLUDES 8 SIMM SOCKETS FOR EASY INSTALLATION OF FAST RAM. THE HC8+ WILL ACCEPT 2, 4, 6 or 8Mb USING 2, 4, 6 or 8 SIMMS
1Mb SIMM **£39.95** EACH INC VAT - MEM 3628

8-BIT SOUND SAMPLER
FOR ALL AMIGAS

Capture sound from an external source and play it back in stereo or mono on your Amiga. The latest version of GVP's Digital Sound Studio (DSS8+) enables you to create audio effects for use in games or jingles.

- *New Style High Impact, Clear Poly-Carbonate Casing*
- *Simultaneously Holds up to 31 Sound Samples in Memory*
- *Real-time Oscilloscope, Spectrum Analysis, Echo & Reverberation*
- *ARexx Compatible*
- *Microphone Input*
- *MOD File & MIDI Compatible*
- *FREE Samples Disk*

DSS8+
£69
INC VAT - MUS 2510

ACCELERATORS
FOR AMIGA 1500 & 2000

FAST! 32-bit TECHNOLOGY

GVP offer a range of A1500/A2000 accelerators that simply outstrip the competition for speed and specifications.

SPECIAL OFFER SAVE £64! 120Mb SCSI HARD DRIVE + MOUNT KIT HAR 2060 ~~£233~~ **£169** INC VAT - HAR 2060 ONLY WHEN PURCHASED WITH G-FORCE ACCELERATORS SHOWN BELOW

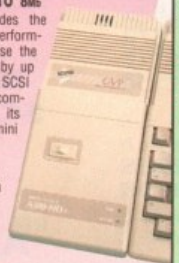
G-FORCE ACCELERATORS	030 40MHz	040 33MHz
Speed MIPS*	12.1	30
Processor	68030EC	68040
Maths Co-Pro.	68882 included	In 68040 processor
Std 32-bit RAM	4Mb	4Mb
Max 32-bit RAM	16Mb	64Mb
Extras	SCSI	SCSI Ser/Par
PRICE	£599 INC VAT - UPG 0630	£999 INC VAT - UPG 0740

*MIPS: Millions of Instructions / second, a normal Amiga runs at .87 MIPS

PLUG-IN HARD DRIVE
FOR THE AMIGA 500 & 500PLUS
+ RAM EXPANSION TO 8Mb

The A500 HD8+ provides the ultimate in hard drive performance, it can also increase the memory of your Amiga by up to 8Mb, support up to six SCSI devices and provide PC compatible emulation via its custom expansion slot (mini slot) see below.

"Without doubt the best hard drive available for the A500 ..."
Amiga Format April '93



AMIGA GOLD VISMAC 92% TOP RATED CU - AMIGA

COMPARISON CHART

FEATURES/MODEL	GVP HD8+	ICD TRIFECTA LX	COMMODORE A590 2Mb	EVESHAM REFERENCE 105
*TRANSFER RATE: Kb per second	1066	1028	564	400
GVP DESIGNER STYLING	✔	-	-	-
RAM EXPANSION(MAX)	8Mb	8Mb	2Mb	4Mb
MINI SLOT (FOR FUTURE EXPANSION)	✔	✔	-	-
SCSI INTERFACE	✔	✔	✔	✔
GVP PERFORMANCE Fasted ROM	✔	-	-	-
DEDICATED POWER SUPPLY	✔	✔	✔	-

*Figures taken from Amiga Computing, October 1992

HD8+ 120Mb HD, 0Mb RAM
PREVIOUS PRICE ~~£399~~
£299
INC VAT - HAR 0922

PC EMULATOR
FOR USE WITH HD8+ or A530
PLUGS INTO THE HD8+ OR A530 TO ALLOW YOU TO RUN PC COMPATIBLE SOFTWARE ON YOUR AMIGA
286-16MHz EMU 0500 **£99** INC VAT

IMAGE PROCESSING
FOR ALL AMIGAS WITH 4Mb RAM

Image FX is a complete solution for all your image creation and editing needs. It has a vast range of facilities, can read and write to many other different file formats and directly controls a wide variety of hardware.

- *24-bit Painting*
- *ARexx Compatible*
- *Virtual Memory Support*
- *Load, Save and Convert to the Following Formats: ANIM, BMP, Clipboard, DCTV, DPAE, GIF, HAM-E, ILBM, IMPULSE, JPEG, RENDITION, SCULPT, TARGA, TIFF AND MORE*
- *Scanning, Framegrabbing & 24-bit Board Support Comes with Modules for Several Popular Hardware Devices: JX100, IV24, AGA/AA Chipset*
- *Create Animations*
- *Numerous Special Effects Edge Feathering, Shading, Alpha Channel, Morphing, Compositing etc*

AMIGA GOLD 92%

CINEMORPH INCLUDED!
SEE DETAILS BELOW

IMAGE F/X
~~£269~~
£199
INC VAT - ASI 2002

VIDEO EFFECTS
FOR ALL AMIGAS WITH 3Mb RAM

CineMorph from GVP opens up the world of Morphing, the process of converting one image to another to create dazzling special effects. Currently very popular in music videos and feature films, morphing has become the fashionable video effect to use. Now with CineMorph you can create these stunning effects on your Amiga.

- *Supports the AA Chipset*
- *Static or Full Motion Morphing*
- *Single Image Warping*
- *Fast Render Times*
- *Renders to HAM-E and*

CINEMORPH
~~£99~~
£25
INC VAT - ASC 4422

THE SILICA SERVICE

SILICA 15 YEARS SERVICE TO YOU 1978 1993

Before you decide when to buy your new Amiga products, we suggest you think very carefully about WHERE you buy them. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals or software, or help and advice. And, will the company you buy from contact you with details of new products? At Silica, we ensure that you will have nothing to worry about. We can meet our customers' requirements with an understanding which is second to none. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Service".

- **FREE OVERNIGHT DELIVERY:** On all hardware orders shipped in the UK mainland.
- **TECHNICAL SUPPORT HELPLINE:** A team of technical experts will be at your service.
- **PRICE MATCH:** We match competitors on a "Same product - Same price" basis.
- **ESTABLISHED 15 YEARS:** We have a proven track record in professional computer sales.
- **PART OF A £50M A YEAR COMPANY** With over 200 staff - We are solid, reliable and profitable.
- **BUSINESS + EDUCATION + GOVERNMENT:** Volume discounts are available. **Tel: 081-308 0888.**
- **SHOWROOMS:** We have demonstration and training facilities at all our stores.
- **THE FULL STOCK RANGE:** All of your requirements are available from one supplier.
- **FREE CATALOGUES:** Will be mailed to you with special offers and full details of hardware, peripherals and software.
- **PAYMENT:** We accept most major credit cards, cash, cheque or monthly terms. (APR 29.8% - written quotes on request)

SILICA

HOT LINE 081-309 1111

MAIL ORDER: 1-4 The Mews, Hatherley Road, Sidcup, Kent, DA14 4DX **Tel: 081-309 1111**

CHELMSFORD SHOP:	Debenhams (2nd Floor), 27 High St, Chelmsford, Essex, CM1 1DA	**Tel: 0245 490654**
CROYDON SHOP:	Debenhams (2nd Floor), 11-31 North End, Croydon, Surrey, CR9 1RQ	**Tel: 081-688 4455**
GLASGOW SHOP:	Debenhams (5th Floor), 97 Argyle St, Glasgow, Strathclyde, G2 8AR	**Tel: 041-248 3896**
IPSWICH SHOP:	Debenhams (2nd Floor), Waterloo House, Westgate St, Ipswich, IP1 3EH	**Tel: 0473 287092**
LONDON SHOPS:	52 Tottenham Court Road, London, W1P 0BA	**Tel: 071-580 4000**
	Selfridges (Basement Arena), Oxford Street, London, W1A 1AB	**Tel: 071-629 1234**
MANCHESTER SHOP:	Debenhams (3rd Floor), Market St, Manchester, Lancashire, M60 1TA	**Tel: 061-839 3654**
SIDCUP SHOP:	1-4 The Mews, Hatherley Road, Sidcup, Kent, DA14 4DX	**Tel: 081-302 8811**
SOUTHEND SHOP:	Keddies (2nd Floor), High Street, Southend-on-Sea, Essex, SS1 1LA	**Tel: 0702 468039**

To: Silica, AMCOM-0594-68, 1-4 The Mews, Hatherley Road, Sidcup, Kent, DA14 4DX

PLEASE SEND ME A 64 PAGE AMIGA COLOUR CATALOGUE

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

Company Name (if applicable): .....

Address: .....

.....

..... Postcode: .....

Tel (Home): ..... Tel (Work): .....

Which computer(s), if any, do you own? 68AC

E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.

GASTEINER

126 Fore Street, Upper Edmonton, London N18 2AX
Tel: 081-345 6000 Fax: 081-345 6868

RAM

A4000 (32 BIT RAM)

1MB £49.95
2MB £69.95
4MB £149.95

A1200 Ram with clock upgradeable FAST RAM board to 1, 2, 4 or 8mb with optional floating point unit

1MB no fpu £89
2MB no fpu £115
4MB no fpu £179
8MB no fpu £359

FPU for above (also for A4000)

20MHZ.....£35
33MHZ.....£79
40MHZ.....£114
50MHZ.....£154

A600 RAM

1MB no clock £23.95
1MB with clock.....£39.95

A500 RAM

1/2MB no clock £14.95
1/2MB with clock.....£24.95

A500+ RAM

A500+ 1MB..... £23.95

Simms RAM for GVP Hardrives

1MB 32 bit £29.95
4MB 32 bit 149.95

Simms RAM for GVP (A1230)

1MB 64 pin £49.95
4MB 64 pin £179.95

PCMCIA CARDS

2MB £109
4MB £169

HARD DRIVES

Amiga A500 + A500plus

IDE controller for A500 and A500+ with 8MB RAM option for standard 2.5" or 3.5" P.C. compatible hard drives

Controller only £89
65MB with controller £209
85MB with controller £249
120MB with controller £279
200MB with controller £299
250MB with controller £319
340MB with controller £339
420MB with controller £369
540MB with controller £399

NEW PRODUCT

Hard drive for A1500, A2000, A3000 and A4000 (Spec as above)

ATBUS 2008 Controller only £89
65MB with controller £209
85MB with controller £249
120MB with controller £279
200MB with controller £299
250MB with controller £319
340MB with controller £379
420MB with controller £429
540MB with controller £499

New Oktagon 4008 SCSI-2 controller with up to 8MB upgradeable for A1500, A2000, A3000+ now A4000

Controller only £99
170MB with controller £299
340MB £399
540MB £599
1.2 G-Byte £899
2.0 G-Byte £1599
4.0 G-Byte £2499

COMPUTERS

Amiga A4000/040+ Hard drive

85MB 2+4RAM £1895
120MB 2+4RAM £1919
200MB 2+4RAM £1939
250MB 2+4RAM £1979
340MB 2+4RAM £2069
420MB 2+4RAM £2149
540MB 2+4RAM £2299

Amiga A4000/030+ Hard drive

85MB 1+1RAM £899
130MB 1+1RAM £969
200MB 1+1RAM £999
250MB 1+1RAM £1039
340MB 1+1RAM £1099
426MB 1+1RAM £1199
540MB 1+1RAM £1299

Amiga A1200 computers

A1200 .....£285
A1200 + 40MB.....£385
A1200 + 65MB.....£440
A1200 + 80MB.....£449
A1200 + 127MB.....£499
A1200 + 200MB.....£549
A1200 + 340MB.....£699

Desktop Dynamite pack for above please add £40

Amiga CD32 Console CD32 with four games £289

MONITORS

Commodore 1942.....£339
Commodore 1940.....£289
Commodore 1085.....£199
Microvitec Multisync £389
SVGA Monitor.....£199

PRINTERS

Hewlett packard

HP 310.....£239
HP 510.....£260
HP 500 Colour £299
HP 550 Colour £479
HP 1200 Colour £1399
HP 4 Laser printer £599

Citizen

Swift 90 colour £159
Swift 200 colour £200
Swift 240 colour £249
ProJet II £250

Seikosha

SP 1900.....£124.99
SP 2400.....£154
SL 90 .....£154
SL 95 .....£295

Star

LC 20 .....£129
LC 100 colour £149
LC 200 .....£199
LC 24-30 colour £229
LC 24-300.....£299
SJ 48 BubbleJet £205

Fargo

Primera printer.....£819

DISK DRIVES

Amitek 3.5" £58
Power 3.5" £53
Cumana 3.5".....£58

PICASSO II

1MB version £289
2MB version.....£325

HARD DRIVES

2.5" Internal Hard drives for A600 and A1200

40MB £119
65MB £139
85MB £169
120MB £209
170MB £269
209MB £329
all with 2.5" IDE cables

NEW NEW NEW NEW
CD-ROM CONTROLLER

TANDEM CD-ROM CONTROLLER FOR A1500 A2000 A3000 AND A4000

* Supports Mitsurni Lu005 or FX0011D CD Rom drive
* Includes SO 9660 CD-ROM filesystem
* Includes "playCD" utility for audio operation
* Complete online documentation
* Compatible with workbench 3.1 cd File System Babel CDFS, ASIM CD-ROM filesystem and single photo C-Ds
* Supports most IDE hard drive

TANDEM £69
TANDEM + CD ROM.....£269

CDTV ADD ON

for A500 or A500+

A570 .....£99

MULTIFACE CARD 3

Multi I/O card for Amiga A1500 A2000 A3000 or A4000 2 additional serial ports and 1 parallel port £99

SCANNER

ALFADATA 256 Greyscale scanners for A500 A500+ A600 A1200 A1500 A2000 A3000 and new A4000

AD 105 with Touch up and merge it Software £119.95
AD 105+ with Touch up and merge it and OCR Software £169
(A0 105+ require 2MB RAM ad hard drive)

ALFA COLOUR

256K 18 bit colour scanner for all Amiga system AD 105C £339
MIGRAPH COLOUR BURST 262144 colour scanner with OCR £389

POWER SCANNERS

Power Scanner 4 (mono).....£119
Power Scanner 4 (colour).....£239
Power Scanner 4 + OCR.....£159
Power Scanner 3 .....£99

EPSON

Epson GT6500 power scan £699
Epson GT6500 ASDG £789
Epson GT8000 power scan £1199
Epson GT8000 ASDG £1298

GVP ACCELERATORS

40MHZ A1230/OMB RAM for A1200 .....£249
40MHZ A1230/4MB RAM for A1200 .....£449
50MHZ A1230II 4MB RAM for A1200 .....£579
50MHZ A1230II 4MB RAM 68882 FPU (50MHZ) for A1200.....£679
SCSI Module £79

MICE AND TRACKBALL

ALFADATA 290 DPI mouse £9.99
ALFADATA 400 DPI mouse ...£13.95
ALFADATA optical mouse.....£29.99
ALFADATA optical Pen mouse £34.95
ALFADATA cystal trackball £29.95
GASTEINER 400 DPI mouse .£14.95
Low cost mouse.....£8

ACCESSORIES

Dust covers.....£6
Disk Boxes from £5
Monitor stand.....£10
Real Time clock A1200.....£15
Scart cables.....£10
Printer cables.....£5
Modem cables £8
Null cables £8
SCSI cables.....£8
2.5" IDE cable.....£10
2.5" to 3.5" cable £15
Auto mouse/Joystick switch....£12.99
Philips 8833 II cable £10
Branded disc (10) £5
3.5" internal drive for Amiga A500£49
3.5" internal drive for A600 .....£79

POWER SUPPLY

A500-A1200 PSU £34.95
A2000 .....£79.95

NEW NEW NEW
SPECIAL OFFER

Disk Expander for HD and floppies.....£35
GIGA MEM Virtual memory for all Amiga with MMU £39.99
Saxon Pro.....£29.95

Repair service

New service/centre for most Amiga computers. We offer a quotation service of £10 for which we will examine your computer and report back with an exact quotation price for the repair. If the repair is carried out the £10 is then deducted from your bill.

How to order

When ordering by telephone please quote your credit card number followed by the expiry date and also your full name and address. If paying by cheque please make it payable to Gasteiner Technology. In any correspondence please quote a phone number and also a postal code, please allow five working days for cheque clearance

Delivery charges

Small consumables and software items under the value of £59 please add £3.50 P&P. Other items except lasers, next day courier service £10 per box. Offshore and highlands, please call for a quotation. In addition, we offer the following express services:- Saturday delivery normal rate plus £15 per box, Morning, next day normal rate plus £10 per box. E&OE prices subject to change without prior notice. All trademarks acknowledged.

INSIGHT DINOSAURS

INSIGHT:DINOSAURS is the second title in the INSIGHT series, a lavishly produced title rich in multimedia. You can be assured INSIGHT:Dinosaurs will be visually stunning and technically correct as the title is being produced in association with the British Natural History Museum, one of the world's foremost centres of excellence in the field of paleontology. A unique title for the whole family, produced in a concise, easy to read style which allows it to be used for reference and browsing alike.

A comprehensive A-Z section gives in depth information on the best known dinosaurs from Allosaurus to Velociraptor.
Life of the Dinosaurs covers Anatomy, Attack And Defense, Herbivores, Carnivores, Climate, Pack Hunters, Lone Hunters, Herds, Scavengers, Descendants and much more.
World of the Dinosaurs covers Death Of The Dinosaurs, Shifting Continents, Family Tree, Fossil Hunters and Hunting and much more.

DINO SAW is a chinese jigsaw with 25 different dinosaur puzzles

DINO PAINT is a simple to use children's colouring book with 25 pages for you to colour.

DINO QUIZ is a multimedia quiz for one or two players with questions on all aspects of Dinosaurs.

TEXT - Comprehensive text coverage

PHOTOS & ILLUSTRATIONS - Stunning photos and illustrations from the Natural History Museum and its comprehensive photo library.

GRAPHICS AND ANIMATIONS - Computer generated 2D and 3D animations bring to life the world of the Dinosaurs.

NARRATIONS - Hear the story of the Dinosaurs.

MOTION VIDEO - Video clips bring to life this lost world!

A comprehensive cross reference index and online glossary give you quick and easy access to the information you need.

PANDORA'S CD

PANDORA'S CD shows you just what can be achieved with multimedia and your Commodore CD system, an all original promotional disc containing something for everyone, Five Senses production, the Nuclear industry, number counting game, Milton Keynes guidebook, jukebox, clipart library, photo library, textures library, sound effects library and a sampler of INSIGHT:Technology. Sample the wonderful world of Optonica multimedia.

CD32

CDTV AND A570 VERSIONS AVAILABLE NOW

£39.95 INC P&P

OPTONICA
SOFTWARE AND MULTI MEDIA DESIGN DEVELOPMENT AND PUBLISHING

FOR MORE INFORMATION OR PLACE AN ORDER PLEASE CALL OR FAX JENNY BURGE ON TEL:0455-558282 FAX:0455 559386
PAYMENT BY CHEQUE OR POSTAL ORDER, SORRY NO CREDIT CARDS
PLEASE ALLOW 28 DAYS FOR DELIVERY - USUALLY WITHIN 48 HOURS
1 THE TERRACE, HIGH STREET, LUTTERWORTH, LEICS, UK, LE17 4BA.

If you've got a problem with your Amiga, ACAS may just have the answer to your query...

acas

AMIGA COMPUTING ADVICE SERVICE

Cap flasher

I have just purchased an A1200 but I am having a problem when running programs. My problem is that on several occasions the computer has failed to respond to any keyboard input after a few minutes.

At the same time the Caps Lock light will flash. Should I take the machine back or am I booting disks incorrectly?

Ray Masters, Wells

Of all the faults that happen to the Amiga range the flashing Caps Lock key has to be the most common and it normally requires professional advice.

I would imagine that you are booting your disks correctly and that there is indeed a fault with the machine itself and not your technique.

If your A1200 is still under warranty and you bought the machine before Christmas all you need to do is call Wang (Commodore's repair services) and get them to send someone out to repair it.

If the machine was bought after Christmas you may have to contact ICL who now hold the warranty agreement with Commodore. However, if you have no warranty you could be looking at a fairly hefty bill – it all really depends on the fault.

Power to the people

At present I own a 1Mb A500 with no external drives. At the moment I cannot decide between buying an external drive or buying a 2Mb RAM Expansion.

So far I have used the Amiga mainly for games but it is very likely that I will be buying a printer for word processing and database management.

Will the extra 2Mb get rid of the slowdown I get from playing certain games (such as Sensible Soccer)? Also, will it mean that I have to swap disks less for games like Civilization? I believe that an external drive would be useful on its own but that an extra 2Mb is quite useless without an external drive. Am I right? Should I buy the 2Mb expansion or the drive, or both?

R Young, Sheffield

It is difficult to weigh one up against the other as both are extremely useful. My advice would be to buy the 2Mb RAM and try and save for a small hard drive, say 40Mb. If this is out of the question then buy the second drive as well.

Owning a hard drive would mean that you could install games such as Civilization and never have to swap disks again.

The more fast RAM you own the faster software will be, although whether the speed increase would be noticeable is questionable. Fast RAM frees up the chip RAM which allows space for the computer to perform calculations. The more space, the more calculations can be performed.

Old architecture

Prior to my writing this letter I owned an A600 with 1Mb trapdoor expansion and recently required a 2Mb PCMCIA card.

My A600 then developed a fault and instead of repairing it I upgraded to an A1200. But I daren't plug the 2Mb PCMCIA card into it as I have been warned by a local dealer that by doing so could cause problems and possible failure, owning to the card's 16-bit architecture as opposed to the A1200's 32-bit.

These cards are openly sold as A600 and A1200 compatible. Tell me the truth – will they work successfully with the A1200 or have I bought a bad egg?

R Lymer, Stoke-on-Trent

The PCMCIA card is compatible with the A600 and A1200 and you cannot damage you machine by using it. As you say, the problems arise with the fact these cards have 16-bit architecture. As the A1200 uses 32-bit architecture the card can actually slow the machine down, taking twice as long to perform rudimentary functions.

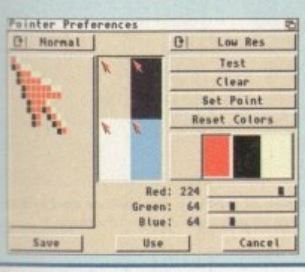
As an add-on they have failed and don't look likely to ever become popular. Your best bet is to purchase fast RAM which increases the A1200's speed considerably, and forget the PCMCIA card all together.

Niggly problems

I have an A1200 with a 64Mb hard drive and, as a complete novice, I am experiencing lots of niggly problems. One of these is that my pointer preferences window has suddenly decided to shrink in width to about half the normal size.

The normal and busy pointers have distorted accordingly and so it is very difficult to edit them. Re-installing the hard drive cures the problem but it always returns after a short while. Could you also explain why a utility disk I am using with a system information feature tells me that the device name for both my hard drive partitions is SCSI.Device, yet my user guide tells me that I have an AT IDE internal interface?

A Leak, Derby

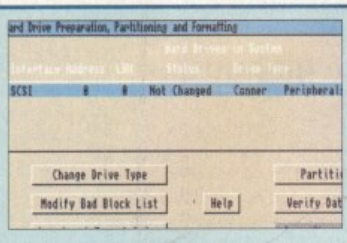


Has anyone ever seen the pointer preferences shrink to half the normal width?

I must admit to being totally stumped by your first question regarding the pointer preferences window. This window is normally in lo-res and I have never experienced it shrinking in size.

What I would suggest you do is get hold of some kind of screen grabber such as Picsaver or Quickgrab. This will allow you to grab an IFF picture of your pointer preferences window.

If you send this picture into me I may be able to offer more help. In the meantime, if anyone else has any idea what's happening write in and I'll pass the information on.



Although A1200 hard drives are in fact IDE, the cable fools the A1200 into thinking that they are SCSI

Your hard drive connector is in fact AT IDE but the connector fools the Amiga into thinking that it is an SCSI drive. There are valid reasons for doing this and you can be assured that it will not damage your computer. There really is no need to worry when system info utilities tell you that your hard drive is SCSI.

Hyper help

I would like to put together a disk containing questions and answers as an examination aid. I have a copy of Hyperbook which seems to fit the bill very nicely.

Would I be allowed to use Hyperbook as my aim is to sell my efforts. As I am dealing with a very minor subject are there any other programs I could use?

D Hart, W Sussex

Hyperbook is probably the best multimedia application you could use to create a program such as the one you have described. There are others such as CanDo and Blitz Basic but these require time to learn whereas Hyperbook is fairly simple to use.

With Hyperbook you could also attach pictures to your questions improving the look and feel of the software you want to write.

So long as you only use the Hyperbook reader you can sell your program to anyone, anytime, anywhere.

Totally degraded

Having replaced my trusty A500 with a sparkling new A1200 I find to my dismay that I can no longer run my beloved Video Studio v3.0. Moreover, the originators, ZVP have apparently put up the shutters!

I've tried Fakemem and Degrader as well as the two-button start-up suggested by Commodore but without success. Am I missing a trick somewhere or have I really got to scrap the program?

W Windsor, Buckingham

If you had told me exactly what your A1200 does when you try and load Video Studio I might have been able to offer more help.

As it is, it would appear that the program is incompatible with the A1200, especially as you have tried using several degrader utilities which have not worked.

Before you decide whether or not to discard Video Studio try and get hold of Relokick from the PD as this may offer a solution. Relokick degrades the A1200 into a 1.3 machine. It's not really much use if you own a hard drive but if you're using floppy disks it may be your last chance at getting it to work.

You got problems too? Then drop a line to Amiga Computing Advice Service, Europa House, Adlington Park, Macclesfield SK10 4NP and we'll move heaven and earth to help in these columns. But sorry, we cannot reply personally, so save those SAEs

Loss of memory

I have recently bought myself an A570 CD-ROM drive for my 1Mb A500. But I wish to upgrade the memory of my computer as when the drive is connected my available memory goes down drastically, leaving me with about 850k.

I was under the impression that it was possible to put a 2Mb upgrade into the A570 but after a quick phone call to Silica I was told that an upgrade wasn't available.

Is there an internal 2Mb upgrade available for the A570 or not? And if there isn't, would I be able to use a DMA port RAM expansion with a through-port for the CD drive?

C Tosini, Merseyside

I'm afraid that Silica were correct when they told you that the A570 cannot be upgraded as far as memory goes. Using such a piece of hardware is not recommended for 1Mb users so I would suggest that you seriously consider increasing your RAM capacity.

Fortunately, there are some very good DMA RAM expansions that will allow you to plug your A570 in a through port. It would be best if you contacted Power Computing who are renowned for high quality RAM expansions. Power Computing can be contacted on 0234 843388.

Speak the language

I have a home file program which I wrote in Basic. Originally, it involved loading Workbench, then the Basic interpreter then my program, just to run it. I thought I would make life easier by copying the interpreter onto my home file disk and then making it auto-boot.

Sure enough, the disk now auto-boots, but when I load and run my program I find that the print on-screen is larger than normal, and text that previously fitted now extends onto the next line. Also, when I try to type a new entry I find that I have an American keyboard and not GB which is installed on my Workbench disk. What has gone wrong and what can I do about it?

E Denne, Kent

If the text is larger than before I would imagine that you have not installed the fonts that the program needs. If this is the case you will need to create a directory on your disk called Fonts and copy the appropriate character sets into it.

The reason that your disk is using an American keyboard is because you have not told it to load the GB keymap. You need to copy the Setmap command from the System drawer and the GB keymap into the C directory and then type the following command in your startup-sequence:

```
setmap c:gb
```

Once you have saved the startup-sequence, reset your Amiga and hopefully the next time it boots up the disk you should have a British keyboard and not an American one.

Crash dilemma

I own an Amiga A600 to which I have fitted a 60Mb hard drive and a 1Mb expansion memory. Until recently the programs which I had installed onto the hard drive worked perfectly but now when I try to run some of these programs my computer crashes. When the computer crashes I normally get the following system message:

```
Software Failure - Protext Program Failed (Error 80000004)
```

When I do a soft reboot I normally get the following message:

```
Software Failure - Press Left Mouse Button To Continue - Error 80000004 Task 000B4FF8
```

In spite of what the first message reads I always wait for the disk light to go off and for the clock to turn back into the pointer before double-clicking program icons.

I always use the same procedure but still these programs will not work. I have also noticed that the trashcans in both my hard drive partitions have ceased to work.

I am very much a beginner as far as computers are concerned and I feel I am out of my depth so I am writing in the hope that you may be able to help me solve this problem.

J Byrne, Gibraltar

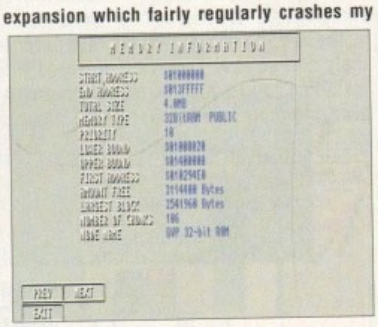
The error 80000004 refers to an illegal instruction call and normally occurs when an item of hardware is not working exactly as it should.

What I would suggest is that you try to load the programs minus the 1Mb expansion as there could be a problem with it. If the programs work you know that it is the expansion that is causing the problems.

I presently own an accelerator and RAM expansion which fairly regularly crashes my machine with the error 80000004. When I am not using the accelerator my Amiga works fine.

My only other suggestion is that you totally re-format your hard drive and then re-install the system software and your programs. Admittedly, this is a laborious chore but if the problems persist at least you will know that it is not the hard drive or the installation.

Problems of this kind consist of a process of elimination. Remove the expansion, re-format the hard drive and if neither of these work write in again and we'll take it from there.



The addition of memory expansions and accelerators can cause your Amiga to crash

The Best Selling Word Processor and Database just became even better...

VALUE!

Since its launch, Pen Pal has become the most popular package of its type

Not surprising when you consider the extensive features at your fingertips, combined with user friendly simplicity, it was bound to be a winner! In a comprehensive Word Processor test, Amiga Format commented "There is little to fault Pen Pal, it deserves to do well" - quite a prediction it seems! Format have since said that it's "Still the best value for money..." If you're not a Pen Pal user yet, we hope you soon will be, because at just £49.95... the best just became better, even better value!

Pen Pal

A superb package, with immense power, to fulfil all your Word Processing needs, and... with an integrated Database too! It's all so easy to use, you'll rarely need to refer to the extensive 250 page lay-flat spiral bound manual. Users frequently tell us that they've never found a program they get on with so well.

THE WORD PROCESSOR: You can... Open multiple documents simultaneously; search and replace; cut, copy and paste; check your spelling with a 110,000+ word dictionary; import your favourite IFF/HAM graphics, from programs such as DPaint, or Clip Art files in various sizes and colours; automatically flow text around graphics in any Workbench compatible font (there are over 200 available styles) in different sizes and colours to suit your design... Even as you type!

Full Page View with position, edit and creation of graphic objects and extremely useful forms designer. All this from a word processor and... Much, Much, More! As you can see from the documents shown on the left this is no ordinary program!

THE DATABASE: With 32 fields per record, 32,000 records per database and a fast sort of 1000 records in less than 5 seconds, this is a *real* database. Mail merging into the Word processor couldn't be simpler, with easy creation of templates for letters or reports, into which information can be merged.

AND... Remember, Pen Pal comes with full support for the new or experienced user completely free! Friendly help for all registered owners is just a phone call away.

SoftWood - Quality software for your Amiga

With Pen Pal you're not just getting a one off product! SoftWood are acknowledged as the World's leading software company who develop ***just*** *for Amiga and* ***no other*** *system. Once you're a registered SoftWood product owner your investment is protected as you'll have access to unlimited free technical support [others charge you] and preferential upgrades to other SoftWood titles, both existing and future. Exciting new products are being developed right now. Pen Pal - your first step on the SoftWood ladder of Amiga software*

Pen Pal is available from all good Amiga software Dealers or from SoftWood. Call for your list of stockists.

SoftWood Products Europe
PO Box 19 Alfreton
Derbyshire DE55 7RW England
Tel: 0773 836781 Fax: 0773 831

Pen Pal is compatible with any Amiga from A500 latest A1200/A4000 ranges with a m of 1 Mb. available free

2 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491

The Centre of Te

WTS Electronics Ltd, Chaul End Lane, Luton, Bedfords

AMIGA 1200 PACKS

32-bit 68020 full power
Two joysticks & mouse
Free paint package software
Mouse mat

A1200 standalone £274
A1200 with 20MB £354
A1200 with 40MB £384
A1200 with 60MB £410
A1200 with 80MB £439
A1200 with 120MB £473
A1200 with 200MB £544
Combat/Innovations pack add to above £45

AMIGA 4000 PACKS

AGA chip set
68030/40 processor
Co-processor option
2MB/4MB RAM

A4000 030 with 80MB HD & 2MB £899
A4000 030 with 80MB HD & 4MB £999
A4000 030 with 120MB HD & 4MB .£1069
A4000 040 with 120MB HD & 6MB £1999
New A4000 Tower Systems ..... £POA

A1200/A600 HARD DRIVES

Easy to install 2.5" upgrade kits
Full instructions and cables where necessary
All drives supplied with formatting instructions and software
Free fitting available- phone for details

20MB HD upgrade kit..... £85
40MB HD upgrade kit..... £135
60MB HD upgrade kit..... £156
85MB HD upgrade kit..... £169
120MB HD upgrade kit..... £199
200MB HD upgrade kit..... £270

HIGH CAPACITY HD'S

These prices include collection, delivery and free fitting, all guaranteed 3.5" drives. Phone for details.

250MB £249 340MB £389 540MB £539

AMIGA CD-32

CD[32] Spectacular Voyage inc. Chaos Engine, Micronism..... £279

New full motion video, allows video CD's to be played on the CD[32] £197

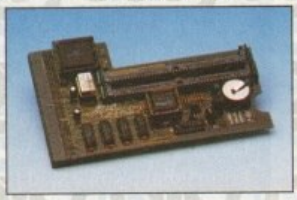
Lead for CD[32] to 1085 monitor £14.99

AMIGA 600

A600 Wierd, Wild & Wicked pack Includes Delux Paint 3, Micoprose Grand Prix, Silly Putty, Pushover and further free software

A600 W,W & W £196
A600 W,W & W with 20MB HD .£276
A600 W,W & W with 80MB HD .£359
A600 W,W & W + 1.3 ROM..... £218

A1200 PRORAM



High quality memory expansion
Easy to fit full instructions
Co-processor option
ProRAM 1200 simply slots into the expansion port under the trap door

ProRAM 1200 2MB..... £169
ProRAM 1200 4MB..... £209
ProRAM 1200 8MB..... £289

ProRAM PCMCIA A600/A1200
2MB £109
4MB £159
ProRAM 1MB A600 ..... £32

MONITORS

14" Hi-Res colour display
Complete with cable
Includes integral stand
Full UK warranty

Commodore 1084/1085s..... £194
Philips 14155A monitor/TV..... £184
Micro Vitec .28 1438 inc. stereo .£309
A1200 SVGA monitor £228
(display hi-productivity modes, not default)
Commodore 1940..... £284
Commodore 1942..... £334
Tilt & Swivel stand £6
Monitor dust cover £4.99
1.5m monitor ext. cable..... £14.99
(Simply add £28 for workstation of your choice when purchasing the above)

WORKSTATIONS

Ergonomically sound
Facilitates up to three external floppy drives
Made in the UK
Strong and robust
Aesthetically pleasing
Keep your desk neat and tidy
Supplied complete and assembled with free mouse mat

A500 Workstation £34
A600 Workstation £32
A1200 Workstation £34
Workstation coverall dust covers....£7
Mouse House..... £4

PERIPHERALS

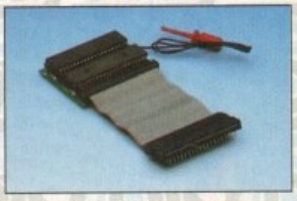
100 Capacity lockable disk box .£5.99
Squick mouse..... £13.99
Mouse mat..... £1.99
TDK high quality DSD(10) disks £9.99
Computer Mall DSD(10) disks..... £6
Jet Fighter joystick..... £13.99
Apache joystick..... £6.99
Python joystick..... £9.99
Zipstick joystick £14.99
Zi-Fy speakers..... £36
A500/A600/A1200 dust covers ..£4.99
A500 modulator..... £36
Bug joystick £13.99
4-Way mains extension block....£7.99
TV RF lead..... £4.99
A500 internal replacement drive ..£47

SCANNERS

Allows image processing in a useful and unique fashion
Comes complete with manual
One of the fastest growing applications for home and professional users
High specification coupled with cost effective pricing
64 greyscales 100-400DPI
Fully compatible with Delux Paint 4 Advanced software

Power Scanner 3 (A500/A1200)..£102
Naski mono (A500) £89
Power Scanner 4 ..... £116
Power Scanner colour 4 ..... £229
Epson GT-6500 (inc.software) £599

PRO ROM SWAPPER



Swap between Kickstart chips
Fits A500, A500+, A600, A1500
Auto swapping via keyboard control
Flexible cable allows the swapper to work in conjunction with accellerators
Simple to fit- full instructions

Pro ROM Swapper..... £18
Pro ROM Swapper+ 1.3 ROM £35
Pro ROM Swapper+ 2.04 ROM..... £40

KICKSTART ROMS

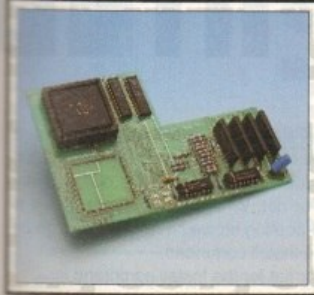
KickStart ROM 2.04..... £24
KickStart ROM 1.3 ..... £17

82 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491

hnical Excellence

LU4 8EZ Telephone (0582) 491949 (6 Lines) EST 1984

PRO AGNUS 2MB



Provides a full 2MB of Chip Memory for the Amiga 500 and A1500/2000 • Designed and built in England • Supplied with 8375 Obese Agnus • Includes 2MB Memory on board in the form of low power Zips • Allows the processing of elaborate animation and sound sampling • Provides the same max. chip memory as the A1200/A4000 & 500+ • Increases addressable memory space from 9MB to 10MB • Complete with full instructions and flying leads • British made

Pro Agnus 2MB.....**£129**
(Free fitting available - phone for details)

A500 MEMORY EXPANSIONS

A500 Pro-Ram 0.5Meg Upgrade
Allows 1MB software to run
Chip memory compatible
British made

Without clock **£16**
With clock **£19**

A500 Pro-Ram 1.5Meg.Upgrade
Gives a full 2MB of memory.....**£78**

A500+ 1MB Meg Upgrade.....**£29.95**

POWER SUPPLY UNITS

Allows the addition of peripherals without damage to computer or power supply
Why risk damaging your expensive kit when one simple investment will ensure total peace of mind now and for the future
Switch mode design
Full crow bar projection
British made

A500 Power supply unit.....**£44.95**
A1200 Power supply unit.....**£54.95**
A600 Power supply unit.....**£44.95**
A590 Power supply unit.....**£44.95**
GVP HD Power supply unit.....**£49.95**
CD32 Power supply unit.....**£44.95**

3.5" EXTERNAL DRIVE

High Quality
Renowned and proven reliabilty
Anti-click
Long moulded cable
Slimline design
High impact plastic

Cumana external drive.....**£57**
Cumana external drive + 100 capacity disk box **£61**
Cumana external drive + 100 capacity disk box 20 blank disks..**£66**
A500/A500+ Internal replacement disk drive.....**£47**
A600/A1200 Internal replacement disk drive.....**£59**
A2000 Internal replacement disk drive.....**£57**

COLOUR PRINTERS

High quality premium range of Amiga printers
Two year manufacturers warranty
Complete with cable
Citizen registered for dealer plus service

Swift 90 Colour **£157**
Swift 200 Colour **£189**
Swift 240 Colour **£219**
Panasonic KXP 1170 Colour.....**£135**
(9 pin 80 column, 192CPS Draft)
Panasonic KXP 2123 Colour.....**£205**
(24 pin 80 column, 192CPS Draft)
HP Deskjet 500 Colour **£285**

CHIPS & SPARES

KickStart 2.04 .....**£24**
KickStart 1.3 .....**£17**
KickStart ROM Swapper.....**£18**
(Swap between KickStarts)
Fatter Agnus 8372 .....**£24**
Obese Agnus 8375 .....**£39**
Hi-Res Denise.....**£16**
1MB x 9 Simms (3chip).....**£39**
1MB x 4 Zips **£19**
8520 CIA.....**£7**
32 Simm 1MB **£62**
32 Simm 2MB **£104**
32 Simm 4MB **£149**
32 Simm 8MB **£289**
A500 modulator **£36**
Replacement mouse.....**£13.99**
A500 Internal Disk Drive **£47**
A600/A1200 Internal Drive **£59**
3.5" IDE/2.5" IDE cable **£19.99**
Spike surpression plug **£14.99**

STOP PRESS
NEW INNOVATIONS

Now the power of the modem is within your grasp with the advent of these cost effective Pro range of hi-spec modems. Auto-dial auto-answer, Hayes compatible.

Pro 2400 FP - Fax Modem v22, v22 BIS, V21, V29, V27 TER, 300-2400 BPS/Fax 9600.....**£79**
Pro VC144E - Fax Modem v22, v22 BIS, V21, V29, V27 TER, V32, V32 BIS, MNP1-5 ....**£189**
All modems inclusive of Comms software, leads and power supply.

How to make your Amiga into a robot controller - Ask for catalogue

SALES HOTLINE 0582 491949 (6 LINES), 0480 471117 (24HR), FAX 0582 505900

Credit card ordering by phone is easy. Simply phone our sales hotline quoting your credit card number., expiry date, name and address and the products you wish to order and we'll do the rest. Alternatively write the above details on your letter when ordering by post.
When ordering by post in cheque form please write your cheque card guarantee number on the reverse of the cheque and send along with your order. Postal orders are also accepted.

MINIMUM ORDER AMOUNT £15.00
NO DELIVERY CHARGES TO UK MAINLAND. Should you wish your order to be sent by courier service please add £5. this method secures the item with full insurance, not express.

WARRANTY: One year warranty return to base. **ONE YEAR EXTENDED WARRANTY**: Available on all products at 10% of purchase price when ordering.

Where to find us!

Head Office
WTS Electronic Ltd
Chaul End Lane
Luton
0582 491949

Computer Mall Bedford
The Harpur Centre
Bedford
0234 218228

Computer Mall St.Neots
Priory Mall Shopping Centre
St.Neots
0480 471117

Computer Mall Hertford
49 Railway Street
Hertford
0992 503606

Computer Mall Dunstable
84 High Street North
Dunstable
Bedfordshire
0582 475747

All prices quoted on products advertised are subject to availability. WTS reserve the right to amend prices or substitute suitable product without prior notice. Strictly payment with order. Please allow 28 days for delivery. Due to availibilty and the te chnical nature of some products even when in stock delays may occur in excess of 28 days.E & OE.

amiga 3 DOS

Stepping into

Build your own auto-booting disk in the first instalment of Steve White's exclusive tutorial

If you own an A1200, congratulations, because you have bought one of the world's most powerful home computers, capable of running advanced applications and playing superb games.

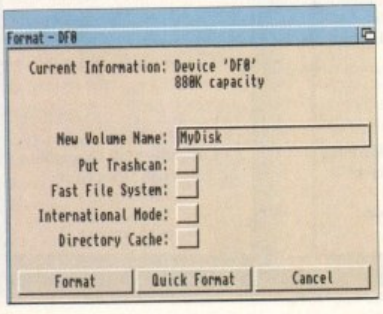
The A1200 boasts a 68020 processor, 32-bit architecture and the AGA (Advanced Graphics Architecture) chipset capable of displaying thousands of colours on-screen at one time.

What's more, the A1200 comes with a fully functional GUI (Graphical User Interface) known as the Workbench which is now into release 3.0.

To become proficient with the A1200 a good understanding of AmigaDOS is required and this is exactly what this article intends to teach you. I would imagine that you have already read your Workbench 3.0 manual and are familiar with the basic workings of Workbench.

This tutorial will cover the many aspects of AmigaDOS and help you to get the most from your machine. Throughout the tutorial you will regularly come across the terms LMB and RMB. These abbreviations refer to Left Mouse Button and Right Mouse Button and indicate that you should click that button on the mouse.

Our task in this tutorial is to create an auto-booting disk that can be used to store programs. While covering this you will learn about the structure of Workbench 3.0 and what functions the many programs have. Obviously, the first thing we must do is to format a disk ready to become our auto-booting disk. Insert a disk into DF0 (the Amiga's internal disk drive) and click on it once with the LMB. Pressing and holding down the RMB select Format Disk from the Icons menu at the top of the Workbench.



Formatting a blank disk is simple thanks to Workbench 3.0's totally GUI (Graphical User Interface). However, to install a boot block you need the Shell

This will bring up the format requester which will allow you to specify exactly how you want to format the disk. Below the actual name of this disk are four buttons labelled Put Trashcan, Fast File System, International Mode and Directory Cacheing.

These options can be selected or de-selected by clicking in the appropriate box with the LMB. Explanations of these options can be found in your Workbench 3.0 manual in section 3-22.

Let's give the disk a new name. Click in the New Volume Name box with the LMB and press the left Amiga key and X together. This has the effect of deleting the text that was previously in the box. Type in the following:

```
MyDisk
```

Press Return and then click on the Format button to actually erase the disk. If the disk was already formatted as an AmigaDOS disk you could have selected Quick Format which is a lot faster.

When the disk has finished formatting it will appear on the Workbench with the name MyDisk. Before we go on let's explain a little about how disks are structured.

An AmigaDOS disk is made up of three parts – the boot block, root directory and data area. The boot block contains the auto-boot information, the root directory contains all the information about the disk and the files that are on it and the data area contains all the data that makes up the many files.

When the root directory is erased all that's left is useless data in the data area. The Quick Format command in the Format requester simply clears this directory. This is why it is a lot quicker than the Format command as this attempts to clear the entire disk. The boot block contains the information which informs the Amiga if the disk is auto-booting or not. When you format a disk it is not auto-booting so we have to make it so by using the Install command.

The format for the Install command is:

```
Install [Drive] [Noboot] [Check] [FFS]
```

Drive can be either DF0:, DF1:, DF2:, DF3: or CC0: depending on which drive you have connected to your machine. Most users will only have DF0.

If the Noboot option is added then the boot block is removed and the disk is no longer auto-booting The Check command simply checks whether or not the chosen disk is auto-booting and reports its findings. Don't worry about the FFS option as it is ignored.

So, to make our disk auto-booting we have to install a boot block. Locate the Shell program and double click it using the LMB so that it opens up. Type in:

```
install df0:
```

When you press the Return key the Amiga will install a boot block on the disk in DF0.

Of course, an auto-booting disk is no use whatsoever without the necessary files. At this point it would probably be a good idea to explain the structure of an auto-booting disk, a structure which your Workbench 3.0 disk depends on to work properly.

Imagine an AmigaDOS disk as a huge filing cabinet capable of holding an immense amount of information. Inside this filing cabinet are sub-sections containing even more information. This is basically how an AmigaDOS disk is structured.

Your Workbench contains drawers and inside these are files and sometimes other drawers containing even more files. These drawers are called directories and are used to keep the Workbench neat and tidy.

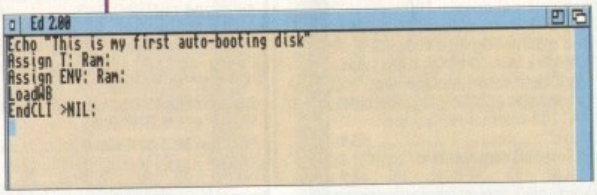
There are several drawers that auto-booting disks rely on. These drawers or directories are called S, C, Devs, Libs and L. There are a few others but it is these that are the most important. The box-out "Giving directions" looks more closely at each one.

Now that we know which directories we need on our auto-booting disk we can create them and copy the necessary files to them.

From the Shell type in the following:

```
makedir MyDisk:S
makedir MyDisk:C
makedir MyDisk:DEVS
makedir MyDisk:LIBS
makedir MyDisk:L
```

Don't forget to press Return after each com



The first part of this tutorial shows how to create the basic directories and assigns needed for a disk to auto-boot

AmigaDOS 3.0

```
AmigaShell
5.Workbench:> dir MyDisk:
     C (dir)
     S (dir)
     DEVS (dir)
     L (dir)
5.Workbench:>
```

Check that you have successfully created the necessary drawers by using the AmigaDOS command Dir MyDisk: Alternatively, you can check them by opening up the MyDisk disk and selecting Show, All Files from the Window menu

mand. The MakeDir command creates directories on the device specified, in our case MyDisk.

Now type in:

```
dir MyDisk:
```

This will show you all the directories on MyDisk which should be S, C, DEVS, LIBS and L. We now need to create a file called Startup-Sequence in the S directory which MyDisk can execute when it is loaded.

We must create the script file using AmigaDOS's text editor called Ed which resides in the C directory. Type in the Shell the following in order to create a file called Startup-Sequence:

```
Ed MyDisk:s/startup-sequence
```

Notice that we don't have to tell AmigaDOS where Ed is. The Shell automatically checks the C directory for commands that have no path. We could have easily typed in:

```
C:Ed MyDisk:s/startup-sequence
```

This will create a file in the S directory of MYDisk called Startup-Sequence. Obviously, the script is blank so we'll enter some instructions so that when the disk boots we have a fully functioning Workbench.

Type in the following listing, remembering to press Return after each line and I will explain what each line does after.

```
Echo "This is my auto-booting disk"
Assign T: Ram:
Assign ENV: Ram:
LoadWB
Endcli >NIL:
```

To save the startup-sequence press Esc, x and then Return. We will be improving this startup-sequence considerably in future articles but this will suffice for now. In the meantime let's take a look at each line.

```
Echo "This is my auto-booting disk"
```

The Echo command works just like a Print statement in Basic. It effectively prints the following text, provided it is contained in quotes to the screen.

```
Assign T: Ram:
```

The Assign command allows directories to be referenced by a new name rather than their usual names, in this case T. It points any reference to T to RAM. T holds temporary files and is used by the system.

You can assign any names to a path. Imagine you had a drawer called Text in another drawer called Writing on the Workbench disk.

Instead of having to change directory to the Text drawer you could simply create an assign to point straight to it, like:

```
Assign TEXT: Workbench:Writing/Text
```

Every time you wanted to load or save a text file from a word processor etc you would simply select TEXT: as the path.

```
Assign ENV: RAM:
```

Another assign, this time ENV which points to RAM once again. ENV stands for ENvironmental Variables and is used by programs to store variables. You can use these variables but they are best left to the professionals.

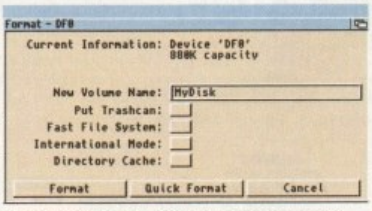
```
LOADWB
```

This command resides in the C directory and basically loads and activates the Workbench program. This command is not the complete Workbench program – it only activates it!

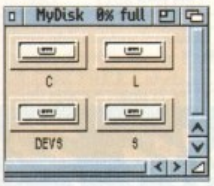
```
ENDCLI >NIL:
```

The EndCLI command also resides in the C directory and terminates the current CLI window so that the Workbench can be exposed. The >NIL: command suppresses any output to the screen such as a text message.

● *In the next article we will add the necessary commands so that our disk auto-boots with a minimum system environmentt.*



Like the drawers, you can check that your startup-sequence has been saved properly by opening up the S drawer and selecting Show, All Files from the Window menu



Command syntax

```
Install [Drive] [NoBoot]
  [Check] [FFS]
Makedir [Drive | Path]
  [Directory Name]
Assign [Name:] [Path |
  Directory Name] [LIST]
  [EXISTS] [REMOVE] [DI
  MOUNT] [DEFER] [PATH]
  [ADD] [VOLS] [DIRS]
  [DEVICES]
EndCLI
Dir [Drive | Path |
  Pattern] [ALL] [DIRS]
  [FILES] [INTER]
```

Giving directions

S (scripts)

The S directory contains executable scripts, one of which is a file called Startup-sequence which all auto-booting disks look for in order to boot correctly. You can take a look at your Workbench startup-sequence by entering the following command in the Shell and pressing Return:

```
Ed S:Startup-Sequence
```

The startup-sequence contains all the information needed to set up a Workbench. It basically calls commands from the C directory and runs them in order to set certain parameters so that the Workbench will function correctly.

C (Commands)

The C directory contains all the AmigaDOS commands that control the Workbench. The startup-sequence in the S directory calls these commands in order to set up Workbench. The Install command resides in the C directory.

DEVS (DEViceS)

The DEVS directory contains the device driver files for the devices that are currently active on the Workbench. It contains the driver files for things such as keyboard language, monitors and printers.

LIBS (LIBraryS)

The LIBS directory contains files that are used by programs in order to perform particular functions. They cannot be run by themselves. Certain programs may need particular libraries in order to function correctly.

L

This directory contains the device handlers, software modules that act as intermediate stages between AmigaDOS and the devices used by the Amiga. The machine calls these handlers and therefore the user needn't worry about them except when the handlers require installation.

Jargon buster

S: Contains script files including the startup-sequence

C: Contains all AmigaDOS commands such as MakeDir, Dir etc

DEVS: Contains the device driver files for the devices that are currently active on the Workbench.

LIBS: Contains files that are called by programs in order to perform certain functions.

L: Contains the device handlers, software modules that act as intermediate stages between AmigaDOS and the devices used by the Amiga

T: Used to store temporary files.

ENV: Used to store the environmental variables.

AUTHORISED DEALER FOR * AMIGA * STAR *

AMIGA

Amiga CD^{32} + Microcosm + Chaos Engine	259.00
A600 Wild, Weird & Wicked Pack	199.00
A1200 Pack - 80Mb HDD Commodore On-site Warranty	499.00
A1200 Pack - 127Mb HDD Commodore On-site Warranty	549.00
A1200 Pack - 200Mb HDD Commodore On-site Warranty	599.00

PRINTERS

All printers include a parallel cable

Canon BJ-10sx Bubble Jet	189.00
Canon BJ-200 Bubble Jet + Integral Sht Fdr	259.00
Star LC-100 Colour	129.00
Star LC24-100	179.00
Star LC24-20 MkII	209.00
Star LC24-30 Colour	209.00
Star LC24-300 Colour	249.00
Star StarJet SJ-48 Bubble Jet	219.00
Star SJ-144 Colour Thermal	509.00
Panasonic KX-P2023 24-pin Mono + Sht Fdr	159.00
Panasonic KX-P2123 24-pin Colour	199.00

DISK DRIVES

Zappo A500/600/1200 3.5" External Drive	(p&p £3) 54.95
A600 or A2000 Internal 3.5" Drives	(p&p £2) 59.95
A500 Internal 3.5" Drives	(p&p £2) 54.95
A600/1200 85Mb Internal Hard Drive	219.00
A600/1200 127Mb Internal Hard Drive	269.00
GVP 120Mb SCSI HDD for A1500/2000/3000/4000	329.00

MISCELLANEOUS

A1200 Hawk RAM + Clock 2/4Mb RAM No FPU	(Free p&p) 129/199
A1200 Hawk RAM + Clock 2Mb RAM + 33MHz 68882 FPU	(Free p&p) 199.00
A1200 Hawk RAM + Clock 4Mb RAM + 20MHz 68882 FPU	(Free p&p) 245.00
A1200 Hawk RAM + Clock 4Mb RAM + 40MHz 68882 FPU	(Free p&p) 289.00
GVP A1230-II Accelerator 68030EC + 4Mb RAM	(Free p&p) 429.00
Anti-Surge 4 x 13 amp Socket Block	(p&p £2) 18.95
Sonmax Zip Stik Super Pro Joystick	(p&p £2) 12.95
The BUG Joystick	(p&p £2) 12.95

CHIPS – Free p&p

A600/1200 Smartcard FASTRAM 2/4Mb	119/179
Kickstart V2.04 ROM for A500/2000	17.95
Kickstart V1.3 ROM for A500/2000	15.95
Super Denise 8373 (For New Graphics Modes)	19.00
1Mb Fat Agnus 8372	19.00
CIA Chip 8520	7.95

ALL PRICES INCLUDE 17.5% VAT, CARRIAGE £7. Prices subject to change without notice. E & OE

Amiga 4000/030

Now with
Free DPaint IV
Free Wordworth V2
Free Print Wordworth Manager

2Mb RAM 130Mb HDD £999
4Mb RAM 130Mb HDD £1099
6Mb RAM 214Mb HDD £1199
6Mb RAM 540Mb HDD £1499

Amiga 1200

Computer Combat / Innovations Pack
Wordworth 2 + Print Manager
Personal Paint 4 + Day by Day Planner
Total Carnage + Brian the Lion + Zool 2
£339

Microvitec Series 3 Monitor

Multiscan 0.28 Dot + Separate Speakers
Supports normal, Productivity & AGA Modes
PC Super VGA Compatible
£299.99

(All A4000/1200 Prices include Home Maintenance)

Delta Pi Software Ltd

VISA

8 Ruswarp Lane, WHITBY, N. Yorks YO21 1ND
TEL/FAX: 0947 600065 (9am - 7pm)

MasterCard

AMIGA REPAIRS

Repairs undertaken to Amiga 500 computers at £44.95 inclusive of parts, labour, VAT and return postage/packing

Commodore registered for full technical support

Computers repaired in the quickest possible time

All machines will be overhauled with a full soak-test to ensure optimum reliability

Entrust your machine to the experts, full 90 day warranty

Repairs to disk drive and keyboard also included
(extra charge possible if found to need complete replacement)

Repairs to other Commodore systems undertaken - phone for details

Upgrades and expansions supplied and fitted - phone for details

£44.95

COLLECTION SERVICE AVAILABLE

To take advantage of this exceptional offer, simply send or hand deliver your computer to our workshop complex, address details below, enclosing this advertisement voucher, payment, fault description, return address, along with your daytime and evening telephone number and we will do the rest.
Should you require Group 4 Security return delivery, simply add £5.00 to the repair charge.

Access VISA

WTS Electronics Ltd Chaul End Lane Luton Bedfordshire LU4 8EZ Tel 0582 491949 (6 lines)

(We reserve the right to reject machines which, in our opinion, are beyond repair- Normal charge applies)

SO YOU WANNA BE BIG (THIS SUMMER?)

MASSIVE MUSCLES IN EIGHT WEEKS – GUARANTEED!

Introducing the most comprehensive muscle building programme in *history*. Have you ever wondered why some people find it easy to gain muscle – while others struggle endlessly in the gym for hours on end to no avail? ***You see, it's not the hours you put in – it's what you put in the hours that count!***

Don't waste your money on expensive supplements that simply don't work, or gimmicky courses that promise everything and deliver nothing!

Contains...

- **No Tablets**
- **No Powders**
- **No Flashy Equipment**
- **Just a serious approach to bodybuilding that *works***

"It's fantastic – I never thought I would look so good, so quick" – **P. J., Liverpool**
"I've been using this course for five weeks now and the visible difference is staggering." – **T.S., Blackpool**
"It makes every other system I've tried seem pathetic." – **R.S., Croydon**
"Dear MP, Being skinny was the hardest thing for me. You certainly put a stop to that." – **P.T., Winchester**

ONLY £14.95 POST FREE

Yes! I wanna be big (by summer)! Please rush me your supreme muscle program so that I can start to reshape my body. I enclose my Postal Order/Cheque for £14.95 made payable to Modern Publications.

Name ..... Address .....

..... Postcode .....

Send your order to **Modern Publications (Dept. SP)**, Steeple House, Percy Street, Coventry CV1 3BY
All orders will be despatched within 7 days

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 KXP1080/1180/990/1592	2.89	2.74	2.54	2.34
Panasonic KXP2123/2180	5.75	5.60	5.40	5.20
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	12.81	12.66	12.46	12.06
Panasonic KXP2123/2180	10.63	10.48	10.28	9.88
Star LC10/20/100	6.00	5.85	5.65	5.25
Star LC200	9.78	9.63	9.43	9.03
Star LC24-10/200	9.63	9.48	9.28	8.88

Ring for Ribbons Not Listed.

Ring us and WE WILL BEAT all other Ribbon prices

3½" Disks & Disk Boxes

	DS/DD	DS/HD
10 Disks	£5	£8
25 Disks	£12	£18
50 Disks	£21	£31
100 Disks	£36	£56
250 Disks	£83	£128
500 Disks	£162	£238

100 Cap. Lockable Disk Box £5.99 with orders of £10+

Preformatted (MS-DOS) disks available at 2p extra/disk.

All Disks Certified 100% Error Free and INCLUDE FREE Labels.

Miscellaneous Items

Roll 1000 3½" Disk Labels	8.99
3½" Disk Cleaning Kit	2.99
Parallel Printer Cable (1.8m)	3.99
Mouse Mat	2.99

Inkjets, Ink Refills & Toners

Canon BJ-10/20 Cartridge	17.54 each
Commodore MPS1270 Cartridge	12.13 each
HP Deskjet Cartridge (Double Cap.)	24.24 each
HP Deskjet Tri-Colour Cartridge	28.89 each
HP Thinkjet/Quietjet Cartridge	12.13 each
HP Deskjet Tri-Colour Catridge Refill	16.00 each

Inkjet Refills (Twin Packs) for Canon BJ-10/20, BJ300, HP Deskjet. Available in Black, Cyan, Magenta, Yellow, Red, Blue, Brown, Light Green, Dark Green, and Gold. 1 Pack £11.00, 2+ Packs £10.60 ea, 5+ Packs £9.95 ea

HP Laserjet II/III Toner Cartridge	44.51 each
HP Laserjet IIP/IIIP Toner Cartridge	53.14 each

Ring For Inkjets & Toners Not Listed.

CPU & Monitor Dust Cover	5.49
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

0543 250377 Ring us or send cheques to: **0543 250377**
Owl Associates Ltd, Dept 193, Owl House,
5 The Brambles, Lichfield, Staffs WS14 9SE
Official Government & Educational orders welcome
E & O E

ORION PD

EST. 1992

SPECIAL PACKS

GAMES PACK 1	30 GAMES 5 disks £5.99
GAMES PACK 2	30 GAMES 5 disks £5.99
EDUCATION PACK 1	5 disks £5.99
EDUCATION PACK 2	5 disks £5.99
C64 GAMES PACK	5 disks £5.99
SPECTRUM GAMES PACK	5 disks £5.99

ASI Games 1-156 – The best games collection
LSD Legal Tools 1-150 – The best utilities collection
CATALOGUE DISK £1.00 – 4,500 Titles in stock
FRED FISH 1-930 – Fish catalogue £1.25

HOW TO ORDER

Please make cheques with bankers card number or postal orders payable to "ORION PD". All orders despatched 1st class same day. + = A500+/A600 compatible. * = Only WB2/3 compatible. Y = A1200 Compatible. PLEASE STATE MACHINE WHEN ORDERING

PRICES

1-10 DISKS	£1.25
11-25 DISKS	99p
26+ DISKS	89p

POSTAGE

UK ORDERS	75p
EUROPE	£2.00
WORLD	£4.00

DEPT AC4
14 OUSTON CLOSE
WARDLEY
GATESHEAD
TYNE & WEAR
NE10 8DZ
Tel: 091-438 5021

UTILITIES

U001 Electro Cad +
U003 M-Cad +
U004 D-Copy 3.1 +
U005 Messy Sid II +
U008 Label Designer +
U009 Land Builder +
U011 Opti Utilities II +
U015 Disk Salvage +
U016 Red Devils Utilities +
U019 Super Killers +
U020 Printer Utilities +
U027 World Databank +
U028 A64 Emulator (2) +
U030 Label Print +
U031 Cross 5.1 +
U032 Sid II +
U033 Print Studio 1.25 +
U039 Geligniite Fonts 2 +
U040 Amibase Pro 2 +
U042 Typing Tutor +
U043 Pro D-Copy 3
U044 Cassette Labeller +
U055 HD Click 2.53 +
U064 SuperDuper 3.0*
U071 Icons I +
U072 Free Paint +
U073 Geligniite Fonts 3 +
U074 Multiplayer +
U079 Icon Editor 4.0 +
U083 Cartoon Brushes +
U086 Free Copy 1.8 +
U088 Spectrum Emu 1.7 +
U089 Text Engine 4.1 +
U092 Pools Tools 2 +
U099 Business Card +
U100 Amiga Tutorial +
U108 Fileofax +
U115 Emulators I +
U117 600 Business Letters +
U120 Magnetic Pages +
U123 North C +
U124/26 C manual (3) +
U128 A-Gene 4.18 +
U138 Forms Unlimited +
U139 PC Task 2.03 +
U140 Animated Requesters +
U149 Antiback 2.2 +
U154 ReOrg 3.11 +
U157 Zoom + Y archiver
U159 Disk Print 3.59 +
U161/65 Pro C Manual (5) +
U167 Canon/Star Drivers +
U172 Power Player +
U174 Magic File Requester *
U175 ABackup 4.1 +
U176 BBase III 1.3 +
U180 3Q Tester +
U183 The Money Program +
U221 Pro Demo Maker
U223 Font Editor +
U238 Landscape Gardening
U247 Antiflicker +
U253 Menu Master 3.0 +
U254 Cheque Book +
U255 Blue Rose Fonts 1 +
U256 Video Manager +
U260/64 WB2 Utilities (5)
U271 Degrader 1.3 +
U272 ZKick A600 Emulator
U275 Audio Anim Studio +
U282 Nib 2 Copier
U283 Little Office +
U315 Grinder +
U314 PC <> Amiga +
U334 Slip Stream Utilities +
U338 Blue Rose Fonts 2 +
U340 Sound Tracker 2.6 +
U341 Icons 2 +
U371 Lyapunova 1.5 *
U372 Virus Z latest +
U380 V Morph +
U382 Cartoon Pictures +
U385 Copy & Crack Tools +
U394 Protracker 3.01 +
U395 OctaMed 2 +
U410/20 Amateur Radio (11)
U422 Last Will, Testament +
U423 Icons 3 +
U435 A1200 Down Grader *
U443 The Essential Copiers
U445/48 Video Graphics (4) +
U449 IBM PC Emulator +
U459 Printer Drivers 2 +
U463/64 WB3 Utilities * (2)
U585 Kids Paint +
U566 Work Bench Hacks +
U568 Print Tools +
U578 Scenery Construction
U584 Ultimate Disk Creator
U587 D-Paint Fonts +
U611 Font Farm *
U614 Dynamite Fonts 1 +
U621 Race Rater +
U623 Speedy Workbench +
U638 Mega Cheats 2 +
U641 Custom Icons +
U650 Word Sort +
U651 Address Print +
U657 Adventure Creator +
U662 Pictures & Letters *
U669 Football League Editor
U673 Magnum 1.9 +
U676 Account Master +
U677 SKick * emulates A500
U678 D-Paint Tutorial +
U679 Hard Disk Uti 2 +
U680 Amiga World 2.0 +
U681 Fake Fast *
U682 Quadra Composer +
U685 ASI Games Fix Disk *
U686 Genealogist 3.04 *
U689 Mr Backup 1.14b +
U691 Kill AGA 2.0 *
U692 LSD Copiers
U697/98 Tools Mngr 2.1 * (2)
U713 ASI Crunch & Copy 2
U718 Astronomy 1 +
U727 HD Installer *
U730 Disk Salvage 2 *
U737 Cheat List +
U738 Planetarium + Y
U749 Print Manager *
U753 Dynamite Fonts 2 +
U754 EDWord Pro 4.0 +
U755 Dart Machine +
U756 Lockpick 2 +
U757 Print A Card +
U758 Pools Wizard +
U759 Virus Protection +
U762 A1200 Classic Fixes 1 *
U763 A1200 Classic Fixes 2 *
U764 Back to School 1 +
U765 Back to School 2 +
U766 Music Rippers +
U771 Numpad A600 only
U772 Flashing Bytes Uti 3 +
U773 Dream Paint + Y
U796 Video Production 3 +
U797 Action Replay 4 A1200
U822 Easy Calc Plus *
U823 Engineers Kit + Y
U824 Star View + Y
U825 Disk Manager III + Y
U827 Magic Menu 1.27 + Y
U828 Viewtek 1.05 *
U829 RDPrep * HD Uti
U830 New HP Drivers + Y
U831 Banner 1.4 + Y
U834 Backup * HD Uti
U837 Logicshop + test ccts
U840 Backdrops 1.0 *
U841 Videostiller 1.3 + Y
U844 ABC Dir 1.3 *
U845 Snoopdos 2.0 *
U846 MSM * Sys Monitor
U848 Amigabase 1.31 + Y
U849 Mod Player + Y
U850 Safe Copy + Y
U851 Neonm 3.0 *
U853 Andy's WB3 utilities
U854 X-Kopia +
U907 The Little Traveller + Y
U908 Wine Making Util + Y
U968 Font Farm 3 + Y
U976 Copiers Unlimited +
U982 Musicbase +
U983 Desktop Video +
U997/99 Iconsplus (3) + Y
U1004 Highway Code +
U1014 OctaMed Tutor + Y
U1015 Magic WB + Y
U1016 Rush + Y Dir Utility
U1017 Ambush + Y
U1018 Astro 22 v3.5
U1022 Dividend winner +Y
U1023 ARexx guide +Y
U1024/25 A1200 Uti (2)
U1026 ASI Video titles *
U1027 Rekokick 1.4 A1200
U1029 ASI Fix disk 2 *
U1030 Maverick copier +
U1031 Mega monitor +
U1032 ASI audio magic 5+
U1033 ASI WB Tools *
U1034 ASI Multivision 4*
U1038 Geligniite fonts 4 + Y
U1039 ASI Multivision AGA
U1040 ASI Audiomagic 6 + Y
U1042 EPU HD stacker + Y

COLOUR CLIPART

CCA Maps (12) + Y
CCA Mammals (10) + Y
CCA Trees (7) + Y
CCA Insects (5) + Y
CCA Birds (7) + Y
CCA Flowers (13) + Y
CCA Reptile (4) + Y
CCA Fish (5) + Y
CCA Vegetables (4) + Y
CCA Dogs (10) + Y
CCA Fruit (3) + Y
CCA Horses (2) + Y
CCA Plains (2) + Y
CCA Dinosaurs (2) + Y
CCA Instruments (2) + Y
CCA Cats (1) + Y
CCA Cats (1) + Y
CCA Ships (2) + Y

BLACK & WHITE CLIPART

BCA Weddings (2) + Y
BCA Houses (2) + Y
BCA Religious (3) + Y
BCA WWII Aircraft + Y
BCA Kids (2) + Y
BCA Business (2) + Y
BCA Office + Y
BCA Xmas (3) + Y
BCA Schools (2) + Y
BCA Babies + Y
BCA Sport (2) + Y
BCA Olympic + Y
BCA Medical (2) + Y
BCA Banners (2) + Y
BCA Butterflies + Y
BCA Borders (2) + Y
BCA Mac clips (2) + Y
BCA Teddy Bears (2) + Y
BCA Golf humour (2) + Y
BCA Navy + Y
BCA Travel (2) + Y
BCA Alphabet (2) + Y
BCA Fish + Y
BCA Restaurant (3) + Y
BCA Astrology (2) + Y
BCA Buildings + Y
BCA Garden + Y
BCA Cats (2) + Y
BCA Dogs + Y
BCA People (5) + Y
BCA Food + Y

GAMES

G001 Compilation 1 + Y
G002 Compilation 2 + Y
G003 Compilation 3 + Y
G004 Compilation 4 + Y
G006 21 Games + Y
G008 Telly + Y
G016 Super Quiz 2 + Y
G017 Air Ace 2 Y
G023 Doody +
G027 Fruit Machine 1 + Y
G029 Jigsaw +
G038 Diplomacy + Y
G039/40 C64 Games (2) +
G051 Dragon Tiles + Y
G054 Soccer League +
G056 F1 Challenge 3.0 +
G082 Monopoly 1 +
G083/84 Star Trek 1 + Y (2)
G098 Super Pacman 92 + Y
G110 Fruit Machine 2 + Y
G113 Top of the League +
G134 Dr Mario + Y
G115 Soccer Card +
G119 Battle Cars 2 +
G120 Growth + Y
G129 Tetren + Y
G187 Total War + Y
G188 No Mans Land +
G192 New Card Games + Y
G194 Fruit Machine 3 + Y
G204 Tennis +
G220 Brat +
G225 Empire +
G236 Stock Market Game +
G245 Return to Earth + Y
G257 Chess Tutor + Y
G258 Ethos + Y Adventure
G263 Airmania + Y
G274 Survivor + Adv
G298 Satu + Puzzle Game
G300 Cricket 1 + Y
G303 Escape + Y
G306 Dominos + Y
G307 Trail Blazer + Y
G308 Games Galore 11 +
G310 Airport + Y
G312 Roulette + Y
G316 Games Galore 12 +
G317 Klaktris + Y
G320 Turbo Thrust + Y
G322/23 Olempiad + (2)
G327 Games Galore 13 +
G328 Mind Games + Y
G334 War + Y
G335 E-Type 2 + Y
G341 Battle Star + YAdv
G342 Deluxe Pacman 1.4 + Y
G343 Poker + Y
G345 Monopoly 2 *
G346 Shuffle Run + Y
G347 Tank Hunter + Y
G348/50 Nethack + (3)
G351 Asteroids 2 + Y
G353 Top Secret +
G354 Tetris AGA *
G355 Bomb Jacky + Y
G356 Fighting Warriors + Y
G357 Crazy Sue 2 + Y
G358 Solitaire Golf + Y
G359 Tetris Pro + Y
G360 Turbo Thrust + Y
G361 Mad Bomber 2 + Y
G362 Wibble World Giddy +
G365 Star Wars
G366 Battleships
G367 Boulderdash +
G368 Crazy Pipes 2 + Y
G369 Fruit Panic + Y
G370 Volley Ball + Y
G371 Fruit Machine 4 + Y
G372 Rubik Puzzle + Y
G373 Aztec Challenge +
G374 Premier Pics + Y
G375 Monaco + Y
G376 Desert Defender + Y
G377 Space Rescue + Y
G381 Army Miner + Y
G382/83 18th Hole (2) + Y
G384 Artillerus + Y
G385/87 Star Trek 3 (3) +
G388/89 Neighbours (2) +
G390 Scrabble + Y
G391 The Winning Post + Y
G392 Beetle + Y
G393 Numnix + Y
G394 Bop n Plop + Y
G395 Spectrum games + Y
G396/98 Klondike AGA *
G400 Klawz + Y
G401 Micro Market 1.2 + Y
G404 Dinosaurs + Y
G405 Road to Hell + Y
G407 Slime Game + Y
G408 Fatal Mission 2 + Y
G409/10 Mr Men Olympics
G411 3D Games 2 + Y
G447 System Defender +
G449 Games Galore 14 +
G450 Games Galore 15 +
G462 Mexican Massacre +
G467 Skidmarks +
G468 Grand Prix Manager +
G470 Firefly + Y
G471 Bondmine + Y
G473/74 Starbase 13 (2) +
G480 Popeye + Y
G482 Space Invasion +
G484 Reversi 2 +
G492/93 Mr Invaders AGA
G503 Excellent cards + Y
G504 Megaball AGA
G505 Gyves Tetris + Y
G506 Fruit Machine 5 + Y
G507 Boulderdash 2 + Y
G508 Exit 13 + Y
G509 Wackman + Y
G510 Digger + Y
G511 Karate Champ + Y
G512 Pipeline 3 + Y
G513 Backgammon + Y

SPECIAL PACKS

BUSINESS PACK 1 – 5 DISKS – £5.99
Text Engine 4.1, Amibase Pro2, Amiga Fox DTP, Budget Home Accounts, Addresser, Typing Tutor, Business Card, Spell Checker, Fileofax, Superduper 3.0, World Time.

BUSINESS PACK 2 – 5 DISKS – £5.99
Forms Unlimited, Messy Sid II, Textplus 3.0, Spread, Smart Icon, Super Spell, HyperCut, 600 Business Letters, Flexibase, PC-Task 2.03, Label Print, Print Studio.

ADOBE TYPE 1 FONTS – 5 DISKS – £5.99
Type 1 Fonts are compatible with Pagestream 2.1+, The Publisher, Final Copy 2 rel 2, Final Writer.

PACK 1	5 DISKS	£5.99	92 TYPE 1 FONTS
PACK 2	5 DISKS	£5.99	78 TYPE 1 FONTS
PACK 3	5 DISKS	£5.99	74 TYPE 1 FONTS
PACK 4	5 DISKS	£5.99	78 TYPE 1 FONTS

SCALABLE FONTS – 5 DISKS – £5.99
Scalable Fonts are compatible with ProPage 3.0/4.0, Pagesetter 3.0.

PACK 1	5 DISKS	£5.99	90 SCALABLE FONTS
PACK 2	5 DISKS	£5.99	76 SCALABLE FONTS
PACK 3	5 DISKS	£5.99	71 SCALABLE FONTS
PACK 4	5 DISKS	£5.99	76 SCALABLE FONTS

BITMAPPED CLIPART – 5 DISKS – £5.99
Compatible with any program that can import IFF images.

PACK 1	5 DISKS	£5.99	MIXED SUBJECTS
PACK 2	5 DISKS	£5.99	MIXED SUBJECTS
PACK 3	5 DISKS	£5.99	MIXED SUBJECTS
PACK 4	5 DISKS	£5.99	MIXED SUBJECTS

HIGH QUALITY IFF CLIPART – 5 DISKS – £5.99
300-600 dpi images with superb quality printouts.

PACK 1	5 DISKS	£5.99	MIXED SUBJECTS
PACK 2	5 DISKS	£5.99	MIXED SUBJECTS
PACK 3	5 DISKS	£5.99	MIXED SUBJECTS
PACK 4	5 DISKS	£5.99	MIXED SUBJECTS

SOUND SAMPLES – 5 DISKS – £5.99
Hundreds of samples for Protracker, Med, OctaMed etc.

PACK 1	5 DISKS	£5.99	HIGH QUALITY SAMPLES
PACK 2	5 DISKS	£5.99	HIGH QUALITY SAMPLES

MUSIC PACK – 5 DISKS – £5.99
Superb introduction to music, contains a music editor plus modules, music player, rippers and sound sampler.

FRACTAL GENERATORS PACK – 5 DISKS – £5.99
Best of fractal generators all in one pack. FractalLab, Mandelmountains, FCS, FFEX, GENESIS, Muprix etc.

ASTRONOMY PACK – 5 DISKS – £5.99
Great collection, Starview, Astro 22, Gravity, Planets, Star Chart, Amigazer, Luna, Moontool, Planetarium etc.

D-PAINT FONTS PACK – 5 DISKS – £5.99
Hundreds of new fonts in different sizes, great value.

D-PAINT 16 COLOUR FONTS – 5 DISKS – £5.99
Some superb fonts for D-Paint, exceptional quality.
5 packs available, each pack consists of 5 disks @ £5.99

Protext 6 - *A Winning Performance*

Some highlights of Protext 6

Styles

Styles let you make flexible use of printer fonts and effects. You can change a font throughout a document with a single operation.

Document Layout

An easy to use dialogue lets you lay out your page precisely as you want using inches or cm for the page length, margins and tabs.

Graphics

Graphic images may be imported into a Protext document. Supports IMG, PCX, GIF and IFF. You can select any resolution and scale the image. Dot matrix, inkjet and laser printers.

Printers

Protext's unrivalled understanding of printers gives you the highest quality printing at the highest possible speed. Using a printer's built in fonts enables Protext to print pages in seconds rather than the minutes taken by some programs.

Protext is still the fastest

- Fastest at editing
- Fastest at spell checking
- Fastest at printing

Protext still has the best printer support

- Hundreds of printers supported
- PostScript driver included *NEW*
- Scalable font support *NEW*
- Colour printing *NEW*
- Automatic line spacing *NEW*

Protext still has the most advanced features including

- Styles *NEW*
- Graphics import *NEW*
- Spelling checker
- Thesaurus
- Hyphenation
- Document analysis
- Glossary *NEW*
- Footnotes
- Widows and orphans
- Index and contents
- Addition of numbers
- File sorting
- Mail merge
- Programming language
- Macro editor *NEW*
- Dictionary editor *NEW*

WorkBench New Look

- New WB menus, requesters, gadgets
- Screen requester to select mode *NEW*
- ARexx interface *NEW*

The list price of Protext 6 is £152.75 but you can order direct today for just £99 inclusive. For any Amiga with 1Mb memory and WB 2.0 or later. Phone us today and we will send you a usable demo version and a full specification, absolutely free. Upgrade offers available - please call us for the current price.

VISA

ARNOR

Arnor Ltd (AMC), 611 Lincoln Road, Peterborough, PE1 3HA Tel: 0733 68909 (24 hr), Fax: 0733 67299

A meeting of minds

Paul Austin reports on a revolutionary approach to Amiga marketing

All smiles from Andrew Gould, one half of the dynamic duo

It's not often that an old timer like yours truly is surprised by the antics of marketing men. It's even more unusual – if not unheard of – for the surprise to be a pleasant one.

As you've probably guessed I've just had such an experience, in a recent seminar hosted by Premier Vision. Although a new name to the Amiga scene, their founding fathers – Messrs Andy Bishop and Andrew Gould – are old Amiga hands with a wealth of experience in music and multimedia.

Now with the Premier Vision logo emblazoned across their chests the dynamic duo are determined to stamp out the scourge of sales prevention that's haunted the Amiga in the potentially lucrative corporate market.

Obviously the new Batman and Robin of the Amiga business aren't simply in it for love, but this shouldn't detract from their efforts to provide a serious platform for the machine and its ever growing range of add-ons.

To introduce unconvinced corporate types to the Amiga takes more than a free ticket to the next box-shifting spectacular. As a result Premier Vision did a commendable amount of legwork and personally invited a select audience for a full day of Amiga introduction at a cost of £90 a time.

With the aforementioned price tag and the Amiga's lack of corporate presence I was fully expecting a table of BLTs and tea and biscuits to myself.

SEMINARS

With a mixture of surprise and disappointment I found myself in the heart of London surrounded by a full house of assorted suits, graphic designers, and independent TV production companies.

During this, the first of a number of planned quarterly seminars, the onus was on the Amiga as a video tool with representatives from as far afield as Australia displaying their wares.

One of the most refreshing aspects of the day was the leaning towards presentation rather than the usual box shifting; with only one or two exceptions all the exhibitors let their products sell themselves – which in most cases they did with great aplomb. To be fair quite a few of the attendant videographic types already had a reasonable knowledge of the Amiga and were there for a first-hand look at the impressive array of third party hardware.

The highlight of the day was the debut of not one but three digital video systems. At the cheaper end of the market came the £400 Peggy Plus Mpeg card which offers an answer to the problem of full frame video encoding and playback.

BROADCAST

Unfortunately the card didn't have much appeal for broadcast types due to the encoding time, and S-VHS/Composite output. However for the semi-pro user with a Piccolo card and suitable video kit it provides an unbelievably cheap – if rather time consuming – alternative to single frame recording.

The last card to take the digital stage was the product that attracted most of the pros to the launch. The PAR – alias personal animation recorder – has already generated huge interest by not only offering live import and export of near D1 quality video but also full 16-bit audio when combined with the AD516 SunRize 16-bit sampler.

Like the Helfrich product, the PAR was put through its paces with combined live audio/video recordings which played back perfectly. To describe the demonstration as impressive would be understating things just a tad.

The assorted suits and corporate types were quite literally mesmerised by the ease of use and astonishing quality. When the price of around £3,500 for a complete pro system – with the essential IDE hard disks – was added to the equation, even the most hard-bitten Amiga bashers found it impossible to hide their enthusiasm.

Unfortunately that's about as much detail as a single page will allow, but rest assured that all of the above products will appear in *AC* as soon as they become available, as indeed will the host of other products that didn't get a mention – including the excellent revision to the SunRize direct-to-disk sampling software.

It only remains for me to thank Premier Vision for at last giving the Amiga the platform it deserves. Combine their efforts with the A.C.E. initiative and the promise of a new Risc-based Windows NT-compatible machine, and the Amiga could at last receive the corporate exposure it so richly deserves. AC

Helfrich's babies

An interesting newcomer was a brand new Jpeg digital video card from Helfrich International.

Although the actual name of the board remains a mystery, the pre-production model was on-hand to provide a fairly impressive display of what can be achieved on a pretty basic system.

Unfortunately the demonstration was hampered by linguistics as the German manufacturer attempted to explain that the slight pauses in playback were cause by a rather catastrophic hard drive crash the previous night which had seriously fragmented the drive.

But this did nothing to reassure the fairly cynical audience who instantly turned cold at the prospect of dropping a frame, even if the cause was nothing more than a temporary glitch.

To put the Helfrich product into perspective, it was running on a A3000 using a standard SCSI. Obviously with the addition of a healthy hard disk and a SCSI II that could transfer data roughly five times faster the erratic playback probably wouldn't have been a problem.

The board's accompanying sound card is still in the design stage but once complete it should provide CD-quality, 16-bit audio to match its 25fps, 24-bit video playback.

Better still, it offers much improved encoding of existing graphics with conversion speeds between five and ten seconds per frame, but perhaps most important of all was its ability to digitise live video.

Thanks to variable compression ratios, quality can vary between composite right up to within spitting distance of D1 – alias broadcast digital video.

The board is set to retail for around £1,000 minus the audio card and won't require a dedicated hard disk – although a Gigabyte drive or upwards would be a prerequisite for serious use. At the optimum quality, such a drive should provide between ten to 15 minutes of broadcast-quality video.

AMIGA/PC UTILITIES

PC TASK £39.95
Emulate a VGA /EGA PC, read & write MS Dos files

BOOKS Bruce Smith Books

A1200 Insider Guide £13.95
A1200 Next Steps £13.95
Assembler Insider Guide £14.95
A-Z of Workbench £14.95
Mastering Amiga Assembler £21.95
Mastering Amiga Amos £18.95
Mastering Amiga Arexx £18.95
Mastering Amiga Beginners £18.95
Mastering Amiga Printers £18.95
Mastering AmigaDos 3.0 Reference £20.95
Mastering AmigaDos 3.0 Tutorial £20.95
Mastering AmigaDos 2 Volume 1 ..... £20.95
Mastering AmigaDos 2 Volume 2 ..... £18.95

DISK UTILITIES

Disk Expander Compresses your hard drive £29.95
X-Copy Professional HW+SW latest £24.99
Gigamem £47.50
Hypercache £37.55
Disk caching speeds hard drives 22 times floppiesx320
Quarterback Tools Deluxe £59.95
Advanced disk doctor
Quarterback v6 Back-up and archival system £59.95
Video Back-up System £54.95
Backs up floppies and hard drives onto VHS video tapes
UPGRADE TO Q'BACK V6 FOR £29.99

DATABASE

Sbase Personal 4 ..... £99.95
Sbase Pro 4 v1.3 ..... £199.95

DATABASE APPLICATIONS

GB Route Plus Plan your route in the UK £31.95
Mailshot Plus £35.95
Music Librarian £15.95
Plants For All Seasons £15.95

DRIVERS

Stand alone device drivers with hotlinks to ASDG's Art Dept. Professional
Epson GT6500 Scanner Software £99.95
Sharp JX100 Driver £99.95
Sharp JX300 Driver £359.00
Abekas Driver £119.95
Lasergraphics LFR Driver £119.95

IMAGE PROCESSING

Art Expressions £145.00
Real 3D Classic 3D rendering, ray tracing £69.95
Real 3D V2.4 Ultra-powerful £359.95
Caligari 24 PAL £94.95
Caligari Broadcast v3.1 ..... £349.99
Art Department Professional v2.5 ..... £145.00
Art Dept Pro Conversion Kit £59.99
Load and save different file formats in AdPro
Doug's Pro Control £50.95
Batch processing front end for AD Pro and Morph Plus
Morph Plus £139.00
Twist, distort, morph and warp images
Pixel 3D Pro £79.95
Create 3D images from scratch, or from 2D pictures.
Video Director Video Editing £115.95
Professional Draw v3.0 ..... £67.95
X-CAD 2000 ..... £89.95
ASK ABOUT UPGRADING YOUR ART DEPARTMENT

FINANCE MANAGEMENT

Arena Accounts Full accounts package £82.95
Cashbook Combo £59.99
Day By Day Diary and personal organiser £24.99
Home Accounts 3 (Money Matters) £39.99
Personal Finance Manager Plus £29.95
System 3 cashflow,sales ledger,stock control £44.99
System 3E £49.99

INTEGRATED PACKAGES

Mini Office WP, spread sheet, database £37.95

MUSIC SOFTWARE

Bars&Pipes Professional £199.95
Creativity Kit £29.99
Internal Sounds £29.99
Multimedia Kit £29.99
MusicBox A £29.99
MusicBox B £29.99
Peformance Tools Kit £35.99
Power Tools Kit £35.99
Pro Studio Kit £32.95
Rules for Tools £29.99
One-Stop Music Shop £499.99
PatchMeister £79.95
SuperJAM! v1.1+ Easy way to make music! £74.95
SyncPro Synchronise midi with multimedia £151.96
Triple Play Plus £159.95
Clarity 16 16 bit sampler with software £109.95
Pro Midi Interface performance midi £24.95
Stereo Master 8 bit sound sampler £29.95
MegaMix Master £29.95
Megalosound £29.95
Deluxe Music Construction Kit v2 ..... £69.95
Miracle Piano £259.95
Learn to read and play music then write patterns to your sequencer with this full size MIDI keyboard and software
Technosound Turbo 2 ..... £29.95

EMERALD CREATIVE

54 WANDLE BANK
LONDON SW19 1DW
TEL: 081 715 8866
FAX: 081 715 8877

SPECIAL OFFER
ORDER 2 ITEMS AND GET 5% OFF
ORDER 3 AND GET 10% OFF

PAINT

Art Expressions Drawing £135.00
Brilliance A fantastic 32 bit paint package £139.95
Deluxe Paint 4.5 AGA £59.95
Deluxe Paint 4.1 Std. Non AGA £59.99
Personal Paint v4.0 ..... £40.00
Professional Draw v3.0 ..... £99.95

SOFTWARE DEVELOPMENT

Cygnus Ed Professional v3.5 ..... £69.95
Amos Professional £34.95
Amos Professional Compiler £24.95
DevPac 3 ..... £51.95
SAS C Ver 6.5+ (new) £249.00
Pascal £79.95
CanDo V2.5 ..... £89.95
Blitz Basic v2 ..... £49.00

VIDEO HARDWARE

Editmate £179.95
Control video from Amiga, add sound via the mixing board.Cables and s/w
Epson GT6500 Colour Scanner £759.00
A4, flatbed colour scanner,with ASDG scanner software.
Video Back-up System £54.95
Backs up your floppies,hard drives onto VHS video tapes
Vidi Amiga 12 ..... £74.95
Grabs full colour images from video in under one second
Vidi 12 Real Time £139.00
Vidi 24 Real Time £233.00

WP + DTP

PenPal UK £29.00
Personal Write £19.95
Wordworth 3.0 AGA £99.95
Professional Page v4.1 ..... £109.99
Pro Page v4.1 + Pro Draw v3 ..... £150.00
Pagesetter v3 ..... £39.99
Pagestream v2.22 ..... £69.95
TypeSmith 2 Font designer £118.95
Final Writer UK £99.99
Final Copy II UK £64.00
Turboprint Professional £34.99
Personal Font Maker £40.00

VIDEO TITLING

Helm (NEW) £89.95
Montage 24 bit AGA Titling £279.99
Scala MultiMedia MM210 ..... £149.95
Scala MM300 ..... £299.95
Media Point v3 (NEW) £290.00

VIRTUAL REALITY

Distant Suns v5.0 Astronomy (NEW) £39.95
Scenery Animator v4 ..... £49.95
Vista Pro v3.1 Create 3D landscapes £48.95
Vista Lite (only 2mb needed) (new) £39.00
Makepath for Vista Animate a path in Vista £24.95
Terraform for Vista £24.95

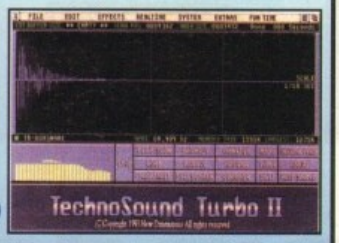
HOW TO ORDER and PAY

Cheque made payable to "Emerald Creative". Allow at least 7 working days for cheques to clear.
Credit Card. Visa, Mastercard, Delta. We will bill your card when we process your order and ship the product, not before.
Pricing: All pricing includes VAT, but not carriage. We reserve the right to change prices. You will be informed of any price change before your order is accepted.
Post and Packaging charges within the UK are £2.50. Recorded post is an extra £0.55. Next day courier is £4.95 inc VAT within the UK Mainland. Please ask for Overseas pricing.
Problems: Faulty product will be GLADLY replaced or repaired within 30 days of purchase. Phone us and we will tell you what to do. Will refund if we can't repair your faulty product.Keep your Invoice. E&OE.

TechnoSound Turbo 2

ADVANCED SOUND SAMPLING SYSTEM

- ★ DIRECT TO HARD DISK RECORDING
- ★ BUILT IN TRACKER
- ★ 18 FUNTIME EFFECTS
- ★ PULL DOWN MENUS
- ★ CONTROLLABLE EFFECTS
- ★ SEQUENCER
- ★ STEREO DIGITISER



£39.99 RRP

18 REALTIME NOVELTY EFFECTS are available on the FUNTIME MENU including PINKY and PUNKY, SEX CHANGE, DEEP SEA DIVER, ALIEN, TOP GUN, CHOPPER, DARK VADER, BRUNO, AWFUL the DUCK, NIGHTMARE on OAK STREET Etc. All great fun to use with a microphone.

"The quality is outstandingly good" FUTURE MUSIC **86%**

"For this price you can't really do much better" AMIGA FORMAT **88%**

"Now is the time to buy" AUI **89%**

TT2 is the complete sampling system for beginners and professionals alike – with NO HIDDEN EXTRAS

AUDIO LEADS are included with TT2 (unlike most other samplers) to give you an instant start up capability

AFTER SALES SERVICE is also included FREE OF CHARGE – with no restrictions on phone calls

TT2 upgrade kit for existing TechnoSound users **£16**

Orders/Enquiries to:-
New Dimensions, Brooklands House, Bryngwyn, Raglan,Gwent NP5 2AA.
Cheques/PO's payable to New Dimensions. POSTAGE FREE
Tel: 0291 690933

BOOKS FOR THE AMIGA FROM DTBS

VIDEOS

History of the Amiga £8.99
Animation Vol 1 ..... £10.99
Animation Vol 2 ..... £14.99
Star Wars Animation Collection £8.99
Amiga Graphics Vol 1 ..... £10.99
How to Animate £10.99
Animation 101 ..... £12.99
Amiga Primer £14.99
The Deluxe Paint IV Video Guide £14.99
Advanced Techniques with Dpaint £14.99
Magic of Music & MIDI £12.99
Audio Production for the Amiga £12.99
Desktop Video Vol 1 ..... £12.99
Desktop Video Vol 2 ..... £12.99
Hot Rod Your Amiga £10.99
Amiga Service & Repair Video £10.99
Introduction to the A1200 ..... £14.99

BOOKS FOR SERIOUS USERS

Amiga ROM Kernel Libraries £34.95
Amiga ROM Kernel Includes £34.95
Amiga ROM Kernel Devices £25.95
Amiga Hardware Ref. Manual £25.95
Mapping the Amiga 2nd Ed. £25.95
Amiga DOS Manual 3rd Ed. £21.95
Amiga Real Time 3D Graphics £14.95
Best Amiga Tips & Secrets £16.95
Amiga Desktop Video Power £24.95
Computers & Chaos Amiga Ed. £14.95
Amiga Intern £32.95
Using Arexx on the Amiga £29.95
AmigaDOS 2 Companion £22.95
Intuition Practical Guide £16.95
Amiga Graphics Inside & Out £29.95
Program Design Techniques £16.95

BRUCE SMITH BOOKS

Mastering Amiga Beginners £19.95
Mastering AmigaDOS 2 Vol 1 ..... £21.95
Mastering AmigaDOS 2 Vol 2 ..... £19.95
Mastering Amiga Printers £19.95
Mastering Amiga Assembler £24.95
Mastering Amiga System £29.95
Mastering Amiga AMOS £19.95
Mastering Amiga Arexx £21.95
Mastering AmigaDOS 3 Ref. £21.95
Mastering AmigaDOS 3 Tutor £21.95
Amiga A1200 Insider Guide £14.95
Amiga A1200 Next Steps £14.95
Assembler Insider Guide £14.95
Amiga Gamers Guide £13.95
Mastering Amiga C £19.95
Amiga A600 Insider Guide £14.95
Amiga A1200 Starter Pack £39.95

ORDERING DETAILS

Prices include postage in the U.K. Add £1 per book in Europe. Add 25% for airmail elsewhere.
Access and Visa accepted. Cheques/Postal Orders payable to DTBS.
Books normally in stock. Dispatch normally within 24hrs if books in stock.

Showroom: 413 Manchester Road, Rochdale Lancashire OL11 3PG.
Open 2pm-4pm Weekdays, Thursday 2pm-7pm.
24hr Tel/Fax/Showroom 0706 715028.
Telephone 0706 524304 9.30am-12.30pm, 7.00pm-9pm Weekdays. Answerphone when shop closed. Mail order to:

DTBS (Dept AC5), 18 Norwich Avenue, Rochdale, Lancs OL11 5JZ

SEASOFT

The Logical Choice

CLR EDUCATION

ACHORD (£3.50)
Guitar chord tutor
T.A.M.I. (£3.50)
GCSE maths tutor
NIGHT SKY (£3.50)
A must for all star gazers
WORDS & LADDERS (£3.50)
Snakes & ladders spelling game
BASICALLY AMIGA (£5.50)
Beginners reference and Amiga Dos
LETS LEARN (£3.50)
Various progs for 3-7 year olds
ALPHABET TEACH (£3.50)
Helps young kids recognise words
FAST FRET (£3.50)
Guitar scales tutor
WORK & PLAY (£3.50)
Educational program for young kids
PLAY IT SAFE (£3.50)
Teach kids about safety in the home
BIG TOP FUN (£3.30)
Help young kids with words/pictures
JIGMANIA (£3.50)
A jigsaw solving program/con. kit
CHESS TEACHER (£3.50)
Tutorial for beginners
MIND YOUR LANGUAGE
Self improvement vocabulary course
SPEED READING (£5.50)
Improve your reading skills
CHORD COACH (£3.50)
Excellent piano tutor
C.A.T.T. (£4.50)
A Tarot prediction program
FUN WITH CUBBY (£3.50)#
4 different educational games for kids
PREHISTORIC FUN PACK (£3.50)
4 excellent Dinosaur games for kids
PEG A PICTURE (£3.50)
Build your picture with coloured pegs
UNDERSTANDING AMOS (£4.50)
A must for Amos users, all about Bobs
MY LITTLE ARTIST (£4.50)#
Super colouring book for young kids
BOREALIS JUNIOR (£3.50)
Simple drawing package for children
BASICALLY MEDICINE (£4.50)
Covers all aspects, first aid, drugs etc.
COMPOSITION (£3.50)
Photographic tutorial on composition
TELL THE TIME (£3.50)
A fun way to teach kids the time
PORTRAITURE (£3.50)
Photographic tutorial about portraits
CUBBY 2 (£3.50)#
Excellent package for young children
SEA SENSE (£3.50)
Seamanship tutorial – morse code etc.
ROCKET MATHS (£3.50)
Excellent childrens maths tutor

AMFC Pro

Converts files between most trackers and OctaMED & Music-X format

£10.00

OctaMED Pro V5.01b – £30.00

Latest version of this famous 8-channel music editor with new Workbench v2.1 files
(Note – requires Kickstart 2.04 or later)

OctaMED Companion – £15.99 (£1.00 p&p)
Printed tutorial & accompanying disks
Essential reading for all OctaMED V5 users

TECHNOSOUND SAMPLERS

TURBO - £22.50
TURBO 2 - £35.00
NEW LOW PRICES

AM/FM

disk magazine for the serious Amiga musician
Issue 17 out now

£2.50
(issues 1 to 16 also available send sae for complete list)

SAMPLES

17 disks packed with high quality samples

£2.50 per disk
(send sae for detailed listing of AM/FM magazine & samples disks)

TOTAL IRRELEVANCE

Issue 6 of the official MED User Group (MUG) disk magazine is now available - £2.50
Issue 5 still available - £2.50
T.I. 1993 (the best of issues 1 to 4) - £4.50

NEW – pick 'n' mix modules – NEW
Dozens of OctaMED modules produced by MED User Group members - call or write for full details
Other goodies from MUG (see PD prices below)
SAMPLES - Drum Kit (2), Bass Sounds (1), Brass & Woodwind (1)
NO SAMPLER? (2)
No need for a sampler with this collection of rippers etc.
V4/V5 MODULES
FRIENDS OF PAULA (4), BARNEY WARTS 'N' ALL (1)
MIDI TUTORIAL (1)

AMIVISION LICENCEWARE

(£4.99 each)

FORMULA ONE CHALLENGE V2
Manage your own racing team with this addictive & detailed simulation

POWER BASE V2.2
Powerful, user friendly database program

POWER PLANNER
Personal organiser with diary, address/telephone book, automatic reminders, regular events etc.

MIDICRAFT

High quality MUSIC-X and AMIGA/PC MIDI files
Call for full details

CLR ENCYCLOPEDIAS

Disk based encyclopedias covering a range of interesting subjects. Using a combination of text, diagrams, drawings & photographs, each title is entertaining as well as educational.
DINOSAURS 2 (£4.50), DINOSAURS 3 (£5.50), GEOLOGY (£4.50), SOLAR SYSTEM 1 & 2 (£5.50 each), ECOLOGY (£5.50), FRESHWATER FISHING (£4.50), YOUR FIRST PONY (£4.50), MESSERSCHMIT BF109 (£4.50), SPITFIRE (£4.50), CHEMISTRY (£4.50),BASIC LANG (£3.50),TITANIC (£4.50), DISCOVER AMERICA (£3.50), KINGS AND QUEENS (£4.50)

A-GENE V4.41

Latest version of this classic genealogical database program

£15.00

FRED FISH

1 to 975+

AMIGA PUBLIC DOMAIN & SHAREWARE

PD/SHAREWARE PRICES - PER DISK
(No. of disks shown in brackets)
1 disk - £2.00, 2 - 4 disks - £1.50, 5 - 9 disks - £1.25, 10 - 24 disks - £1.00, 25+ disks - £0.90

ASSASSINS GAMES

1 to 160+

UTILITIES

A-BASE (1)
Excellent database program
AGENE V4.18 (1)
Demo of commercial package
AMIGA FOX V1 (1)
Desktop publishing program
ASTRO 22 V3.5 (1)
Serious astrology program
ACC 1-4 (1)
Best of Issues A.C.C. 1-4
C.MANUAL V3 (12)
Comprehensive C Manual
CHECKBOOK (1)
Keep track of your bank acc.
COMMUNICATE V1.2 (1)
Sign language program
D COPY V3 (1)
Excellent copying program
EASY CALC (1)
EASY CALC+ (DOS 2) (1)
Excellent spreadsheet
ENGINEERS TOOL KIT (1)
Diagnostic program
FREECOPY V1.8 (1)
Install games etc on your HD
FRED FISH CAT (1)
Lists all Fred Fish disk
FORMS UNLIMITED (1) & 600 BUS. LETTERS (1)
Useful business programs
GOLF RECORDER (1)
Golf database
ICON PLUS (3)
Various icons and useful utils
INSCRIPT V1.1 (1)
Video titler
KICK 1.3 (1)
Run those A500 programs
KICKSTART 2 (1)
Emulates Kickstart 2 on A500
LOCK PICK 2 (1)
Install many games on HD
MCAD V1.22 (1)
Technical drawing package
MAGNUM V1.9 (1)
Disk magazine creator
MENU MASTER 3 (1)
Create your own menus
MESSY SID 2 (1)
Amiga – PC file convertor
NCOMM V3 (1)
Powerful comms package
NORTH C (2)
C-compiler
NUMPAD (1)
Adds numeric keypad to A600
PC TASK V2 (1)
Demo of PC emulator
PROCAD ELEC. V1.3 (1)
Demo Circuit/PCB design
SID 2 (1)
comprehensive directory utility
SPECTRUM EMULATOR V1.7 (1)
Latest Spectrum Emulator
SUPERVIEWER (1)
Slideshow construction kit
TEXT ENGINE V4.1 (1)
Text editor/word processor
TEXT PLUS 3 (1)
Excellent text editor
V-MORPH V2.3 (1)
Morphing program
VIRUS CHECKER (1)
Latest VC V6.33 - a must

ASI GAMES

ASI 151 - Krillian Incident, Caffeine Free Diet, Zyard
ASI 152 - Klawz, Dictator 2, Big Willy and the Troll
ASI 153 - Exit 13, Beetle
ASI 154 - Wackman, Bobs Garden, Kaboom
ASI 155 - Megablock, Digger, Crazy Clock
ASI 156 - World Darts, Quacker, Karate Champ
ASI 157 - Fatal Mission, Strikes and Spares
ASI 158 - Scrabble, Tordo, UChess III
ASI 159 - Driving Maniacs, Smidge, Colour Change
ASI 160 - Bingo, Electrex

GAMES

18TH HOLE GOLF (2)
The only PD golf game around
AGATRON STAR TREK (2)
Game - a must for all trekkies
AMOS CRICKET (1)
Simple but fun cricket game
CARD SHARP (1)
Full of patience games
DITHELL IN SPACE (1)
Excellent platform game
DONKEY KONG (1)
Classic arcade game
EXIT 13 (1)
Excellent puzzle game
GAME TAMER v4.59 (1)
Latest tips and cheats
GUSH (1)
Pipemania style game
HIGH OCTANE (1)
Overhead driving game
HOLY GRAIL (1)
Classic text adventure game
PRO BINGO (1)
Excellent - Full house!
RETURN TO EARTH (1)
Space trading game
ROAD TO HELL (1)
2 meg overhead racing game
ROBOULDIX (1)
Boulderdash game
SCRABBLE (1)
Excellent board game
SKID MARKS (1)
Fast driving game
STAR BASE 13 (2)
Graphic adventure game
SUPER PACMAN (1)
Classic pacman game
SURVIVORS (1)
(Not A600) Space adventure
TETRIS PRO (1)
Classic game
TOTAL WAR (1)
Excellent Risk style board game
WIBBLY WORLD GIDDY (1)
Commercial quality platform game

EDUCATIONAL

AMIGA BEGINNER (1)
A must for all beginners
CLASSIC BOOKS - English literature ask for complete listing e.g. Shakespeare (12)
CODE MUNGUS V5.1 (1)
Highway code tutor
D PAINT TUTORIAL (1)
Excellent D Paint tutorial
JUNIOR MATHS (1)
Teach young children to add etc
LEARN AND PLAY (2)
Various progs for 5-10 years
STORY LAND 2 (1)
Save toyland from the witch
TC ASTRONOMY (1)
Disk based encyclopedia
TC DINOSAURS VOL 1 (1)
First of the brill TC Encyclopedias
THE LITTLE TRAVELLER (1)
Learn all about other countries
WORLD WAR II (1)
Info about the Second Wolrd War

DEMOS

242 FAIRLIGHT (1)
Stunning demo
ALCATRAZ - ODDESSY (5)
(Not A1200) Amazing demo
BAIT MASKING (1)
Eric Schwartz demo
DESERT DREAMS (2)
Mega demo from Kefrens
GET FROGGED (1)
Superb anim - singing frog
JESUS ON E'S (2)
Acid demo (2 drives)
PINK FLOYD (6) (2 drives)
Classic Mega demo - The Wall
RAGE ALCHEMY (2)
Excellent demo
REVELATIONS (1)
Quality slideshow
UNSPORTING (1)
2 Meg anim A10/Tank amusing

A1200 ONLY

A1200 INTROS (1)
4 great demo intros
ANDYS WB3 UTILITIES (1)
PP Show 3.0a, WBVertaul etc.
ASSASSINS FIX DISK (1)
Get your old programs to run
BIOMECHANOID (1)
Techno music
CYNOSTIC SLIDESHOW (1)
Brilliant AGA slideshow
HOI AGA DEMO 2 (1)
The very first AGA Demo
HOI DEMO 2 (1)
KLONDIKE (3)
AGA patience game
K RHODES SLIDESHOW (1)
Fantasy slideshow
MANGA SLIDESHOW (4)
Famous Japanese artwork
MAGIC WORKBENCH (1)
Create dazzling backdrops
MAGIC FACTORY (2)
Excellent Star Trek slideshows
MEGABALL 3 AGA (1)
Excellent version
MIRAGE SUBLIMINAL XTC (2)
Excellent acid demo
MOTOROLA INVADERS (2)
An AGA space invaders game
NIGHTBREED VOL 1 (2)
VOL 2 (2) VOL 3 (2)
Excellent AGA pictures
POINT OF SALE (1)
Stunning AGA demo
SLEEPLESS NIGHTS 3 (1)
Useful utilities Icon Master etc
SPACEBALLS 9 FINGERS (2)
Absolutely fabulous Mega
SUPER HAM PICS (6)
Excellent Ham pics
TETRIS/AGA UTILITIES (1)
Classic game and utilities
UCHESS (1)
Ultimate chess program (4 meg)
VIEWTEK V1.05 (1)
AGA picture/animation viewer
W.B.3 BACKGROUNDS (1)
Coloured backdrops for w.bench
WB3 HACKS (1)
Selection of fun hacks

THOUSANDS OF FILES OF CLIP ART (COLOURED & MONO) AND FONTS etc. ALSO AVAILABLE

ACC

HARDWARE PROGRAMMERS MANUAL
Assembly language tutorial
Disk 1 (PD) - £2.00
Disks 2 to 4 - £12.50

CD ROMS

(£1.00 P&P)

CDPD 1, 2 & 3
£19.95 each
Fish disks & lots, lots more

DEMO 1 & 2
£19.95 each
Hundreds of classic demos

17 BIT COLLECTION
£39.95
An instant P.D. library on this brilliant 2 disk collection

17 BIT CONTINUATION
£19.95
More 17 bit titles

MULTIMEDIA TOOLKIT
£19.95
pics, colour & mono clip art, fonts, samples & more

GAMES 1, 2 & 3
£19.95 each
100 PD GAMES ON EACH OF THESE CD32 COMPATIBLE ROMS

PARNET

1.8 PARNET lead with P.D. software
£12.50

AMIGA-AMIGA

null modem lead
£6.00

ACC

AMIGA CODERS CLUB
hints, tips & source code for assembly language programmers

£3.50 per issue
(issue 32 now available)

MUSIC

GUIDE TO ELECTRONIC MUSIC (3)
Comprehensive guide (2 drives)
MED 3.21 (1)
Final version of classic editor
MIDI CRAFT - VOL 1 (1)
Demo of MUSIC-X/MIDI files
MUSIC ENGINE (1)
Multi format music player
OctaMED V2 (1)
Full functioning 8-channel editor
OctaMED V4 (1)
Non-save demo
OctaMED V5 (1)
Non-save demo
PROTRACKER 3.01B (1)
Latest version
X-BEAT PRO (1)
Drum sequencer

OCTAMED MODULES
MAKING TRAX – VOL 1 (1)
MICROCRAFT (4)
MUSICALLY CHALLENGED (1)

MEGA MOUSE

400dpi ultra high res
£14.95

MIDI INTERFACE

with leads
£22.50

ACCESSORIES

(£1.00 p&p)
PYTHON JOYSTICK – £9.99
ZIPSTICK JOYSTICK – £12.99
MOUSE MAT – £2.99
MOUSE HOLDER – £2.50
HEAD CLEANING KIT– £2.99
MONITOR COVER – £4.99
A500 DUST COVER – £2.99
A600 DUST COVER – £2.99
A1200 DUST COVER – £3.99
PRINTER STAND – £4.99
PRINTER LEAD (1.8m) – £3.99
PRINTER LEAD (5m) – £6.99
4 PLAYER ADAPTOR – £5.99
LONG JS EXTENDER – £4.99
SHORT TWIN EXTENDER – £4.99
AMIGA-SCART LEAD – £10.00

Note – Titles marked # will not work on A500 (V1.2/V1.3) machines
Unless otherwise stated all advertised titles work on A500 (1 meg), A500+, A600 & A1200 machines

Please add 50p P&P to P.D./Licenceware only (£1.50 Europe, £3.00 rest of World) or £1.00 if your order includes other items (Europe & rest of World at cost)..
Send cheques/postal orders to:

SEASOFT COMPUTING

(Dept AC), The Business Centre, First Floor, 80 Woodlands Avenue, Rustington, West Sussex BN16 3EY
or telephone

(0903) 850378

10.00am to 7.00pm Mon-Fri (to 5pm Sat) Callers by appointment please

P S D
A MEMBER OF THE PROFESSIONAL STANDARDS FOR DISTRIBUTION

CLR GAMES

TRUCKIN-ON 2 (£4.50)
(2 Drives) Run your own trucking Co.
DRAGON TILES (£3.50)
Excellent Shanghi puzzle game
MOTOR DUEL (£3.50)
3D Car racing shoot-em-up
PIC IT (£4.50)
'Catchphrase' trivia game
PARADOX (£3.50)
Excellent sliding puzzle game
SONIC SMARTIEHEAD (£3.50)
Help Sonic – Kids platform game
QUINGO (£3.50)
Pub quiz machine simulator
CRYSTAL MAZE (£3.50)
Excellent pacman style game
IMBRUIM (£3.50)
Excellent platform adventure game
JUNGLE BUNGLE (£3.50)
Text/Graphic adventure game for kids
WHITE RABBIT (£3.50)
Totally addictive, puzzle game
OGI (The Caveman) (£3.50)
Excellent platform game. A must
F1 RACER (£3.50)
Formula 1 type racing game
CRYSTAL SKULL (£3.50)
3D Dungeon Master type game
TENPIN BOWLING (£3.50)
Excellent bowling game

CLR UTILITIES

VIDEO TITLER (£3.50)
Professional touch to your videos
TYPING TUTOR (£3.50)
Complete course, structured lessons
ALPHA GRAPH (£3.50)
Comprehensive graphing program
POWER ACCOUNTS (£3.50)
Keep track of your bank account
CALC V1.3 (£3.50)
Powerful spreadsheet
SUPER SOUND V4.7 (£3.50)
Powerful sample editor
X-STITCH LITE (£3.50)
Produce cross stitch charts
INVOICE MASTER V2 (£3.50)
Create your own invoices
IMAGEBASE (£3.50)
Multimedia program (Text & Sound)
ADVENTURE TOOLKIT (£3.50)#
Text adventure creator
DRAW SELECTOR V2 (£3.50)
Pools prediction program
FLOW CHARTER (£3.50)
Create neat flowcharts
POWER TEXT 2 (£3.50)
Excellent Word processor/spell check

DISKS & BOXES

(£1.00 p&p)

DISK BOXES
10 cap - £1.25
40 cap - £4.50
100 cap - £5.99

3.5" DISKS WITH LABELS
100% error free
DS/DD (AMIGA etc.)
10 - £5.00
50 - £22.50
100 - £42.50

DISK LABELS
100 - £1.50
500 - £6.00
1000 - £10.00
1000 T.FEED - £12.50

It's a great giveaway!

Games galore from Psygnosis are up for grabs, not to mention some rather swanky special edition pieces of *Microcosm* clothing

To celebrate the launch of their first CD title, Microcosm, Psygnosis have produced some notably good articles of clothing, namely sweatshirts and long sleeved T-shirts. We've got loads to give away, as well as a whole selection of games.

Microcosm is set in a harsh, dark future world called Bodor, and traces the underworld activities of two rival mining corporations, Cybertech Inc and Axiom. Just recently Cybertech have managed to create a lead over Axiom. President of Axiom, Argon Stark, seizes upon the idea of infiltrating Cybertech's headquarters and injecting their president with a mind-controlling virus called greyM.

Although the plan is successfully implemented, Cybertech realises that Axiom have sent an intruder into their president. Following a frantic meeting, Cybertech executives decide to inject a craft with which to fight the assassin viruses.

The first prize in our competition consists of a supreme collection of brand new, really excellent games: **Walker**, **Wiz'n'Liz**, and **Hired Guns**, together with a special edition **Microcosm** sweatshirt, long sleeved T-shirt, and a Psygnosis short-sleeved T-shirt.

The five runners up will receive one of these superb games: Combat Air Patrol, Lemmings Tribes, Prime Mover, Bob's Bad Day and Globdule, plus either a Microcosm sweatshirt or a T-shirt, or both!

To enter, send your answers to these three simple questions and the tie-breaker, on a postcard, to Amiga Computing Psygnosis Competition, Europress Direct, PO Box 2, Ellesmere Port, South Wirral L65 3EA. Don't forget to give your name and address! Entries should arrive no later than May 31, 1994.

Question 1 – Where is Microcosm set?
Question 2 – Who are the two rival corporations?
Tie-breaker – I would look particularly gorgeous sporting a Microcosm T-shirt because...

The prize winner will be drawn from all the correct entries received. Result information may be obtained by writing to our offices. The editors decision is final. no correspondence will be entered into.

● *Please tell us if you do not want to receive promotional material from other companies*

More Kind words...

KindWords 3 manual Only £8.95

KindWords 3 order form

Please send me...

☐ KindWords3 manual at £8.95 including postage and packing (UK)

** Overseas readers need to pay an extra £2 towards postage*
**Australian readers can buy the manual for $25. Cheques should be made payable to Activision, 10 Agnes Street, Meadow Bank, Sydney, Australia, NSW 2114*

I wish to pay by:

☐ Cheque / postal order payable to Activision
☐ Credit card Expiry date /

Card No

Deliver my order to:

Name (Mr/Mrs/Miss/Ms)_____

Address _____

_____

Postcode _____ Daytime phone _____

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

Get the maximum enjoyment from your free KindWords 3 software on this month's CoverDisk with our special manual offer

The original KindWords 3 manual costs only £8.95 including postage and packing. This well made, comprehensive book will enable you to use all of your new word processor's powerful features, and to take advantage of the refinements that set KindWords 3 apart from the competition.

You'll soon be using the software to its best potential, creating attractive and effective documents with the help of this easy to read, useful manual.

For more information on KindWords 3 call 081-742 9400

Send this order form to Amiga Computing KindWords 3 Offer, Imediat, B3 Edison Road, St Ives, Huntingdon PE17 4LF, or if you are paying by credit card you can telephone 0480 496688. Allow 28 days for delivery.

EPIC

Public domain Software

Order hotline. 0793 490988

VISA MasterCard EUROCARD Access

UTILITIES

- D002 PARNET
  Link up 2 Amiga's and talk to each other
- C916 SPEEDBENCH 2.1
  A Workbench that loads in seconds
- C917-12 SAMPLES
  Twelve disks of samples
- C928 MUSICBASE V1.1
  Store your complete music collection on disk in this easy to use database
- C882 EASY SLIDE
  The worlds easiest to use slideshow generator
- C877 PAY ADVICE ANALYSER 4
- C878 TRONI-CAD 1.36
- C879 X-PASSWORDS
  Password protect your disks
- C854 PARNET HELP
  If you need help with Parnet get this
- C826 PARBENCH
  Network your Amiga's through Workbench
- CC706-4 SB PROLOG
  Prolog the Language
- C689 COMPUGRAPHIC FONTS
- C637 PRO UTILITIES 1
  A collection of professional tools

SPECIAL OFFER!!!!
Amiga A1200 Dust Cover
Only £1.99*
Use order code (XI)
*With any purchase

- C593 DISKSALVE 2
  Can salvage any corrupt Dos disk
- C594 LEMMINGS 2HD PATCH
  Installs Lemmings 2 onto your Hard disk with ease
- C578 PRINT A CARD V2
  Prints any sort of card
- C523-3 AMATEUR RADIO
  If you're into Amateur radio then these three disks will be of great use to you
- C330-4 KING JAMES BIBLE
  The complete King James' bible
- C311 FILE-O-FAX
  A great personal organiser/diary
- C298 GRAMMAR CHECKER
  Check the grammar of your documents
- C121 NUMPAD FOR A600
  Emulates the numeric keypad so you can run most flight sims on your A600

UTILITIES

- C329 ABASE V1.33 very powerful and flexible database, perfect for anything from a video collection to friends & relatives etc.
- C004 AMIGA TUTORIAL Great tutorial for beginners to learn a little
- C121 A600 NUMPAD numeric keypad emulator. Essential for A600
- C151 TEXT ENGINE 4 we regard this as the best PD word processor out
- C155 X-KOPIA very powerful disk copier, inc various copy modes
- C033 DYNAMITE PRINTER DRIVERS Around 100 various printer drivers for Star, Panasonic, Citizen, etc.
- C182-12 C MANUAL (12 disks) Latest version of C the language
- B937 TEXT PLUS v4.0
  Advanced wp package
- B969 LITTLE OFFICE includes Word processor, database & spreadsheet
- B970 DUNKS DTP kids dtp package
- C013-2 COMPUTER EYES FONTS
  A 2 disk collection of Amiga fonts
- C084 CANON STUDIO 1.2 essential for use with the Canon BJ printers
- C125 T.A.C.K. (the animation con kit)
  Allows you to create animations with syncronised sound fx. Brill
- C194 ENGINEERS KIT. Fault finder. Test your drives, memory, sound etc
- C201 ARESTURE (UNDELETED)
  Can undelete (get back) deleted files either from floppy or hard disk
- C236 V MORPH V2B Unreal morphing program. Create effects similar to the ones in T2 etc.
- C237 LAST WILL & TESTAMENT
  Do your own will, and save money. Be a cheap skate!
- C261-5 HINTS & CHEATS (5 disks)
  Hundreds of useful cheats
- C256 FREE PAINT REVISION 37
- C300 ACTION REPLAY A500/A600
  Action replay that you can use on the A600
- C336 FRACSCAPE create stunning landscapes & save them out
- C347 EXTERMIN 8 V2.04 Essential selection of virus killers, the most up to date available. Ks2/3 only
- C390 HP PRINTER DRIVERS
  A collection of drivers for HP printers

GAMES

- C515 GIDDY Brilliant new cute platform game, very addictive
- B280 PETERS QUEST a 20 level arcade platformer, great stuff
- B836 KAMAKAZI CHESS a variant of the classic board game, chess
- B832 BUGBASH fast paced frantic Bug bash (requires degrader to work)
- B819 AMIGA PUNT race predictor
- B812 SUPER PACMAN the best Pacman game ever, don't miss it
- B885 HEMEROIDS Excellent Asteroids game, well addictive
- B899 MIDDLE EAST MANIA get Saddam before he gets you
- B903 CHAINSAW DEATH Weird
- B907 OTHELLO
- B918 SPACE RESQUE Amazing quality shoot-'em up, featuring unreal paralax scrolling etc.
- B940 WIZARD WORLD very cute platform game
- B947 LEEDINGS Ideas taken from Lemmings
- B951 ETYPE II up to date Asteroids game, with great graphics, very fast
- B952 GAMEBOY TETRIS
  A replica of the gameboy
- B955 TOP SECRET Possibly the best 2 player platform game ever
- B966 SPACE TRAX 2 play space shoot-'em up, kill him, before he kills U
- B968 HELL ZONE Very similar to the arcade game R-Type, but with better graphics, very fast
- B973 CYBERNETIX Up to date Defender clone. Bloody amazing stuff
- B990 BOUNCE 'N' BLAST very cute platform game
- B979 DOODY Wonderfully cute platform game
- B998 PUGGLES similar to Q-bert
- B993 TRAIL BLAZER race the ball down a never ending road
- C046 MARIO'S WONDERLAND
  Mario on the Amiga?
- C082 GALAGA '92 Fantastic shoot-'em up, ace stuff
- C235 FIGHTING WARRIORS
  Street fighter 2 clone
- C250 ROACH MOTEL excellent new maze cum platformer game

GAMES

- C915 PACMANS REVENGE
- C945 SICK BALL II
- C897 KARATE CHAMP
  A classic beat'em up
- C898 DIGGER
- C899 WACK MAN
  New Pacman clone
- C900 KLAWZ THE CAT
  Great new platformer
- C901 BLACK DAWN
- C902 BAT DOG Excellent platform game where you control a super dog!
- C903 AMIGANOID
  A 2 bat Breakout game, great!
- C904 WORLD DARTS
- C905 BOB'S GARDEN
- C908 CAFFEINE FREE DIET
  Fast paced shoot-'em up
- C909 GALAXY '93 Superb new Galagains game. Brill SFX
- C910 CRONIC THE HODGE HEG
  An alternative Amiga version of Sega's Sonic the Hedge Hog
- C911 SCORCHED TANKS
- C912 GALACTOID
- C893 QUACKERS GAME
- C894 MAD FIGHTERS AGA
- C895 ICE RUNNER
  A superb new Load Runner game. The object of which is to escape from the other men chasing after you, hang from ropes, dig holes and bury the other characters. Very addictive stuff
- C891 DARTS GAME
  Play darts on your computers
- C873 DITHEL IN SPACE GAME
  Addictive new platform/shoot-'em up
- C874 KISS THE CANVAS GAME
  Cheap beat-'em up
- C869 PLACEBO INVADERS
  Colourful space invaders clone
- C870 TACHYON
- C871 MOOSE DRIVER (RACING)
- C776 FATAL MISSION 2
  Fast paced shoot-'em up
- C777 OPERATION FIRESTORM
  Superb quality Green Beret game. Excellent graphics & gameplay

Around 100 new titles added every month. Call for the latest…

BEST AGA

- C432 ACTION REPLAY IV A1200
  A version of Action replay that you can actually use on the Amiga 1200. It allows you to rip graphics, music, games. Give yourself more lives and more
- C356 DEGRADERS Is an essential new collection of 1200 de-graders. Includes KICK 1.3, FAKEMEM, KILL AGAv2, & the popular DEGRADER. You should achieve 95% compatibility with this disk
- C554 PC TASK V2 (VGA 256 colours). The ultimate in shareware PC emulators. Run PC VGA software on your Amiga in glorious 256 colour mode. A boot disk is required to use this program, and is available from us for just £3.50
- C175 UCHESS (4 meg). The first ever A1200 specific game, requires 4meg
- C153 WB3 BACKDROPS A set of Workbench 3 backdrops. Impressive
- C355 NEW WB3 SUPER KILLERS
  A collection of virus killers
- C375 DOS DRIVERS Should give every Amiga owner full compatibility
- C798-2 FIT CHICKS 2
  Fantastic quality pictures of girls
- C796-2 FIT CHICKS 3
  More excellent girly pictures
- C802 EMPTYHEAD AGA DEMO
- C465-2 SPECTRUM EMULATOR
  Very fast A1200 version, runs speccy software on the Amiga!
- D005-3 KLONDYKE AGA A three disk card game. Brill!
- C838 COMPLEX "ORIGIN"
  Fantastic raytraced animated intro
- C833-4 MANGA SLIDES AGA
  A four disk collection of Japanese girl pictures
- C888 MEGA BALL 3 AGA
  A 256 colour version of break-out
- C894 MAD FIGHTERS AGA DEMO
  Shareware Street fighter game
- C843 STARTREK AGA
  A collection of Startrek pictures in glorious 256 colour graphics
- C828 VOLCANO AGA
  Short but impressive AGA demo
- C800 VIEWTEK V2.0
  AGA picture viewer

FREE BOX OF TEN BLANK DISKS WITH EVERY ORDER OF 15 TITLES OR MORE

CLIP ART

- ART1-2 WEDDINGS (2 disks)
- ART2-2 HOUSES (2 disks)
- ART3-3 RELIGIOUS (3 disks)
- ART4 WW1 AIRCRAFT
- ART5-2 MEN (2 disks)
- ART6-2 WOMEN (2 disks)
- ART7-2 KIDS (2 disks)
- ART8 BUSINESS
- ART9 OFFICE
- ART10 STUDENTS
- ART11 SALETIME
- ART12-3 XMAS (3 disks)
- ART13-3 PUNCH (3 disks)
- ART14 ANIMALS
- ART15 CATS
- ART16 SILHOUETTES
- ART17-2 SCHOOLS (2 disks)
- ART18 BABIES
- ART19-2 SPORT (2 disks)
- ART20 OLYMPIC
- ART21-2 MEDICAL (2 disks)
- ART22 SEA LIFE
- ART23 DECORATIVE MONTHS
- ART24 WACKY
- ART25 HOLIDAYS
- ART26-2 BANNERS (2 disks)
- ART27 ART NOUVEAU FLOWER
- ART28 BUTTERFLIES
- ART29-2 FOOD (2 disks)
- ART31-2 BORDERS (2 disks)
- ART32 MAC CLIPS
- ART33 HORNBACK
- ART34-2 TEDDY BEARS (2 disks)
- ART35-2 VANITY FARE (2 disks)
- ART36 HALLOWEEN ART
- ART37 SHOWTIME
- ART38 VEGETABLES
- ART39 FLORAL
- ART40 MYTHS
- ART41 DOG WOODCUTS
- ART42 CAT WOODCUTS
- ART43 AFRICAN WOODCUTS
- ART44 AMERICAN WOODCUTS
- ART45 ARCTIC WOODCUTS
- ART46 FARM WOODCUTS
- ART47 MIXED ANIMAL WOODCUTS
- ART48 BIRDS WOODCUT
- ART49 MORE ANIMALS
- ART50 ANIMAL LINE ART

EMULATORS

- B997 IBM EMULATOR FOR A500+
- C465-2 SPECTRUM EMULATOR
- C554 PC TASK V2 (AGA)
- A772 C64 PACKAGE V2
- B979 ATARI ST AMULATOR A500+
- C15-2 QL EMULATOR
- B897 KICKSTART 2 EMULATOR
- C495 KICKSTART 3 EM KS2
- B001 PC EMULATOR FOR A500
- C837 BBC EMULATOR

COPIERS

- C494 MAVERICK COPIER
  Removes copy protection from hundreds of games
- 0659 TETRACOPY powerful disk copier, that you can play Tetris whilst copying a disk
- C410 LOCK PICK 2 removes copy protection from over 400 games
- C155 X-KOPIA very powerful
- C070 DISK MATE simple workbench copier
- B934 FREE COPY 1.8 removes copy protection from various games
- B333 SUPER DUPER
  Very fast disk copier
- A775 PAC COPY play pacman whilst copying another disk
- C576 D-COPY 3.1
- C550 SAFE II Can copy Amiga & PC disks in just over 1 minute

PRINTER DRIVERS

- C033 PRINTER DRIVERS
  This disk contains around 100 printer drivers for Star, Hewlett Packard, Epson, Amstrad, Citizen, Seikosha, OKI & loads more. New drivers added every week
- PDWB ( ) INSTALLED ( )
  We can install a printer driver of your choice on a workbench version of your choice. Simply fill in the blanks with your choice, or call for more details.
  All for just £5.00

BUSINESS

- BANK & CLERK keep accounts
- B969 LITTLE OFFICE wp/dbase/s-sheet
- MINI SPREAD powerful s-sheet
- C311 FILE-O-FAX get organised
- C329 A BASE 1.33 very powerful
- C371 ADDRESS PRINT 3.1
- C407 EXCEL DATABASE
- A938 600 BUSINESS LETTERS 600 template letters to load into your WP
- C522 ACCOUNT MASTER
- C298 GRAMMAR CHECKER
- C636 TEXT ENGINE 4.1
- C032 FANCY DISK LABELLER
- B906 THE DTP PROGRAM simple to use Desk Top Publisher software
- C863 EASY CALC+ KS2/3
- C877 PAY ADVICE ANALYZER 4
- C803 ADDRESSER
- C758 GRAPH PRO

IMAGINE

- C930 DINOSAURS & ANIMALS
  Includes different animals including an animated T-REX
- C931 WWII & MISC AIRCRAFT
  A number of different aircraft
- C932 MODERN AIRCRAFT
- C933 STARWARS OBJECTS
  Loads of different objects from Star Wars
- C934 STARTREK OBJECTS
  Loads of different objects from Star Trek
- C935 AMIGA 1000 OBJECT
- C936 AMIGA A3000 OBJECT
  An object of the Amiga 3000
- C937 BILLIARD, BUILDINGS
  Includes various objects including CHESS, and various buildings
- C940-2 VEHICLES
  Includes BMW, VW, Future Bike, Ferrari F1, 32 dodge, Steam Engine
- C942 MISCELLANEOUS OBJECTS
- C700-2 IMAGINE OBJECTS 1&2
  A collection of various objects
- C816 USS ENTERPRICE
  It's so detailed you need at least 4meg

VIDEO PRODUCTS

- 654-2 VIDEO APPLICATIONS
  A 2 disk compilation of different Video applications
- 656 TV GRAPHICS
  Professional looking backdrops for any video titler
- B2698 VIDEO EDITORS KIT
  More useful for video production
- B986 VIDEO WIPES contains various utilities for creating new video screen wipes
- B989 CAPTIONATOR
  A sort of sub-titler
- C080 VIDEO TITLER
  Easy to use video titler
- C856 TITLER 2 LO-RES
  Good all round video titler
- C857 TITLER 2 HI-RES
- INSCRIPT
  Simple to use
- C821 DTV STUFF
  A compilation of new video titlers compatible with genlocks

DEMO MAKERS

- 65 DEMO MAKER
- 67 GHOST WRITER
  Easy to use demo maker
- 31 SPACE WRITER
- 488 DEMO MAKERS
- 644 DOPE INTRO MAKER
- A422 DEMO MAKER COLL.
- A558-2 DIGITAL MARKETING
  A 2 disk demo maker, get really professional results with this
- B014 RSI DEMO MAKER DELUXE
- B300 RSI DEMO-MAKER
- B916 MAGIC DEMO MAKER
- C360 RSI DEMO MAKER 2Meg KS2/3
  The best demo maker available, now works on the A1200 & A500+ with 2Meg of Ram
- C476 FAST INTRO MAKER 2 KS2/3
  Professional demo maker for KS2/3
- C732 DEMO MAKER UTILS
  A collection of tools to make your demo's look that much better

** Some titles require a degrader on A1200*

ICONS

- 393 ULTIMATE ICON UTILS
- A146 ICON MAGIC
- A888 ISON DISK 7
- B527 ICONS FOR ALL 2
- C848-3 ICONS PLUS KS2/3
  A 3 disk collection of icons for use on Workbench 2 & 3
- C887 CUSTOM ICONS KS2/3
  More great new WB2/3 icons
- C772 MAGIC WORKBENCH KS2/3
  Give your Workbench a new image

KIDS CORNER

- C240 FIREWORK ALPHABET
- C072 MATHS REFLEX TEST
  Answer as many questions right as you can as quick as you can
- C065 DIVISION
- C026 FOUR STROKE ENGINE
- B931 MATHS CALCULATOR
- B915 HENRIETTA'S BOOK OF SPELLS
- A420 LEARN AND PLAY
- B016 MATHS TALK
- B065 ALGEBRA II
- B068 MATHS WIZARD
- CD2262 WORLD WAR 2 HYPERBOOK
- B135 STORY LAND
  A book on disk?
- B303 KIDS PAINT
- CD2226 PICTURES & LETTERS
- C946-2 BACK TO SCHOOL
  Six great kiddies educational games
- C913 PD PAINT Easy to use paint package
- C905 BOB'S GARDEN
  Simple to play Digger game
- C885-2 KIDS DISK 3&4
- C699 ANIMAL LAND 1
  Great for the very young. Distinguish the different types of animals
- C623-2 MR MEN OLYMPICS
  For up to 4 players to compete in loads of events including Weights, hurdles & 100 metres
- C505 GIDDY very cute platform game
- C046 MARIO'S WONDERLAND
  Based on the smash hit Nintendo game

ORDER FORM

Name .....
Address .....
.....
Tel ..... Amiga .....
Payment method .....
Credit card No. ..... Exp. .....

Total amount of PD disks X123 TITLE = 1 single disk X234-2 TITLE = 2 disks 1 Single disk £3.00 2-5 disks £2.00 each 6-10 disks £1.75 each 11 or more £1.50 each	QTY	
Goods value		= £
Postage & Packing Please add a total of 50p for P&P in the UK		= £
Amount enclosed		= £

All titles listed should work on any Amiga unless stated

OVERSEAS ORDERS

Overseas orders are welcome, but please add 25p to each disk ordered, & a minimum of 5 disks apply. All foreign orders are sent by first class Air Mail.

COLLECTING DISKS

You are welcome to collect your PD order, but you are advised to phone it through prior to collection. Office hours: 9.30am-5.30pm Mon-Sat.

ORDERING BY POST

Simply mark off the titles you wish to order, and send this page to Epic Marketing, 1st Floor Offices, 31 Faringdon Road, Swindon, Wiltshire SN1 5AR, enclosing full payment either by Cheque, Postal order, Money order, or simply your credit card details.

ORDERING BY PHONE

To place an order over the phone simply call any time between 9.30 & 5.30pm Monday to Saturday with your credit card details and the disks you would like to order.

EPIC MARKETING, FIRST FLOOR OFFICES, 31a FARINGDON RD, SWINDON, WILTS, SN1 5AR

EP PD SOFTWARE

PUBLIC DOMAIN DISKS

- ☐ C720 BEETLE GAME
  Addictive Platform game
- ☐ C722 MPEG MOVIES
  A collection of MPEG movies and MPEG player
- ☐ C723 TOTAL WAR
  Brilliant game
- ☐ C724 UPCAT ks2/3
  For cataloguing your disk collection on the Amiga
- ☐ C725 D.SOLVE CROSSWORD
  Crossword solver
- ☐ C726 2.2 UNLIMITED
  Brilliant music by Scoopex
- ☐ C728 XMAS LEMMINGS
  Demo of Xmas Lemmings
- ☐ C729 KLAW UTILITIES 5
  More miscellaneous utils
- ☐ C730 MR BUNS UTILS
  A small collection of utils.
- ☐ C731 DOCUMENT PROTECTOR
  Document file protection
- ☐ C732 DEMO MAKER UTILS
  A collection of tools for creating demo's
- ☐ C733 OCTAMED SAMPLES
  High quality samples
- ☐ C734-2 PICTURE FONTS
  A 2 disk set of IFF fonts

INVENTORY II
For small businesses, keep track of Stocks & wages
Order code ☐ C954

- ☐ C736-2 FONTS & TEXTURES
  2 disks of professional fonts and textures
- ☐ C738 HOTBLOX
  New Tetris clone
- ☐ C740 EPROMMER ETC
  Eprommer on the Amiga?
- ☐ C741 KIDS FAVOURITES 2
  Lots of children's Nursery rhymes
- ☐ C742 MENU LAUNCHER V1.0
  Easy to use menu system
- ☐ C744 MONTAGE-LANDSCAPES
- ☐ C745 HIGH OCTANE
  A 2 player top view racing game. Wicked!
- ☐ C746 ASTRO22 V3.5
  Your Star signs
- ☐ C747 MENUMASTER V3
  Easy to use menu system
- ☐ C748 COCCAINE
- ☐ C749 PERSONAL DIARY '94
  Diary system for 1994
- ☐ C750 3D GAMES 2
  A collection of 3D games
- ☐ C751 FERRARI AGA SLIDES
  Lovely 256 colour pictures
- ☐ C752 MR BROWNSTONE
- ☐ C753-2 DRUMKIT SAMPLES
  2 disk collection of drum samples
- ☐ C755-2 ON THE GREEN
- ☐ C757 RAVE SAMPLES
  A collection of rave samples
- ☐ C758 GRAPH PRO
  Graph plotting software
- ☐ C759-2 PARNET SETUP
  Tutorial on the Parnet setup
- ☐ C761-2 STARTREK THEMES
  Themes from Star Trek and The Next Generation
- ☐ C763-2 THE JOURNEY
  A 2 disk animation
- ☐ C765-3 MUSIC GUIDE
  A 3 disk tutorial on creating music on the Amiga
- ☐ C768-2 THUNDERBIRDS
  Comical animation of these popular puppets
- ☐ C770 JUNIOR MATHS
  Shareware maths for kids
- ☐ C771 STOP SMOKING
  3 ways to stop smoking, very sick indeed
- ☐ C773-3 GRAPEVINE 17
  Disk magazine on 3 disks
- ☐ C776 FATAL MISSION 2
  Excellent new fast paced Shoot'em up. Great!!

PUBLIC DOMAIN DISKS

- ☐ C778 MAP STATION
  Map maker
- ☐ C779-2 STARTREK 6
  Comical 2 disk Animation
- ☐ C781-7 SPECTRUM GAMES 2-8
  Hundreds of games for use with the Spectrum Emulator
- ☐ C788 CDTV KEYBOARD TO CD32.
  Use your CDTV keyboard on your new CD32
- ☐ C791-2 HOLODECK STARTREK
  A collection of impressive Startrek pictures
- ☐ C801 ORC ATTACK
  New arcade/dungeon game
- ☐ C803 ADDRESSER
  Brillinant Address Keeper
- ☐ C804-10 COLOUR FONTS
  10 disks of colour fonts
- ☐ C814 UNPLEASANT WAYS TO DIE
  Sick, but comical slides
- ☐ C815 DEATH WALK 1.5 MEG
  Sick 1.5meg Animation
- ☐ C816 IMAGINE USS ENTERPRISE
  Object for Imagine
- ☐ C818 SUICIDE MAN 2
  Very sick animation. Good
- ☐ C819 SILICON JOURNAL
  A personal Diary
- ☐ C821 DTV STUFF
  Desk Top Video Stuff!
- ☐ C825 ELEVATION 2
  Great arcade game
- ☐ C826 PARBENCH
  Parnet set up for use through Workbench
- ☐ C827 CRUNCHERS/COPIERS
  Loads & Loads
- ☐ C829 DEPTH CHARGE GAME
  Basic but addictive
- ☐ C837 BBC EMULATOR
  A BBC Emulator!
- ☐ D006-3 SPECCY EMULATOR
  Run your old spectrum games on your Amiga. Excellent on the A1200
- ☐ C838-2 COMPLEX "ORIGIN" AGA
  Amazing A12 megademo on 2 disks, stunning introduction
- ☐ C841 ASI GRAPHICS TOOLS
  Converters etc.
- ☐ C842 DISK MANAGER III
  Powerful disk cataloguer
- ☐ C843-2 STARTREK AGA
  Very impressive AGA Star Trek pictures
- ☐ C845 FOOTBALL FORECASTER
  1.2 Pools predictor
- ☐ C846 MAGNUM 1.7
  Magazine creator
- ☐ C847 HIGHWAY CODE
  Learn the highway code

A1200
ACTION REPLAY IV
Allows you to rip music & graphics. Complete with machine code monitor etc.
Order ☐ C432

- ☐ C848-3 ICONS PLUS KS2/3
  Hundreds of WB2/3 Icons
- ☐ C851 GAME TAMER 4.54
  Over 400 game cheats!
- ☐ C854 PARNET HELP
  Need help with Parnet?
- ☐ C855 ASI AUDIO MAGIC V
  A collection of music tools
- ☐ C856-2 TITLER II
  2 superb video titlers
- ☐ C858 LCD GAMES
  5 all time classic LCD games
- ☐ C859 SUNJETS ANIMATION
  Wow!
- ☐ C860 BATTLE FORCE
  New Arcade Adventure
- ☐ C861 NOSTAGIUM "URIDIUM"
  Very similar to Uridium
- ☐ C862 PARA ATTACK
- ☐ C864-4 MEAN MACHINES
  Amazing 3.5meg Animation

PUBLIC DOMAIN DISKS

- ☐ C868 NEURAL ASSAULT
  Very impressive Mega demo
- ☐ C869 PLACEBO INVADERS
  Very colourful space Invaders clone
- ☐ C870 TACHYON
  Tron clone
- ☐ C871 MOOSE DRIVER (racing)
  Addictive new top view racing game. Contains great Graphics & sound
- ☐ C872 FANTASY TO REALITY
  New Rave compilation
- ☐ C873 DITHEL IN SPACE
  Superb quality Shoot'em up cum platform game, similar to Jetset Willy, but better
- ☐ C875 PRO CAD ELECTRONIC
  Electonics Computer Aided Design Package. Great!
- ☐ C877 PAY ADVICE ANALYSER
  Powerful PAY Analyser
- ☐ C879 X-PASSWORDS
  Password protect your hard disk & floppy disks
- ☐ C880-2 TRAX II TRACKERS
  A collection of latest Music makers + samples etc and modules, ready to use
- ☐ C883 SOLAR LORDS
  Arcade RPG game
- ☐ C888 MEGABALL AGA
- ☐ C889 DYNAMIC ILLUSION
- ☐ C890 RAZOR REVIVAL
- ☐ C891 DARTS GAME
- ☐ C893 QUACKERS GAME
- ☐ C894 MAD FIGHTERS AGA
  A1200 beat'em up (shareware)
- ☐ C895 ICE RUNNER
  Colourful new Load runner
- ☐ C896 ASI VIRUS KILLERS
- ☐ C897 KARATE CHAMP
- ☐ C898 DIGGER
  Conversion from the arcade
- ☐ C899 WACK MAN
- ☐ C900 KLAWZ THE CAT
- ☐ C901 BLACK DAWN
  Amazing D&D game
- ☐ C902 BAT DOG
  New platform game
- ☐ C903 AMIGANOID
  A 2 bat breakout game
- ☐ C904 WORLD DARTS
- ☐ C905 BOB'S GARDEN
- ☐ C906 BIG WILL & TROLL
  New platform game
- ☐ C907 THE BIG GAME
- ☐ C908 CAFFEINE FREE DIET
  Amazing shoot'em up
- ☐ C909 GALAXY '93
  Brilliant new Galaxians clone
- ☐ C910 CRONIC THE HODGE HEG
  A cheap variation of Sonic on the Amiga
- ☐ C911 SCORCHED TANKS
- ☐ C912 GALACTOID
- ☐ C913 PD PAINT
  Useful paint package
- ☐ C914 JOKE BOX 1
  A disk full of jokes
- ☐ C915 PACMANS REVENGE
  Cheap Pacman clone
- ☐ C916 SPEEDBENCH 2.1
  New Workbench that loads in seconds
- ☐ C917-12 SAMPLES
  Twelve disks full of various sound fx & samples
- ☐ C928 MUSICBASE V1.1
  Store your record/CD collection
- ☐ C943 THE MACHINE
  4 short but fascinating anims
- ☐ C944 THE LEMMINGS SHOW
  Sick animation
- ☐ C945 SICK BALL II
  A variation of Football
- ☐ C946-2 BACK TO SCHOOL
  Six educational titles for kids
- ☐ C949 SHORT MODULES
- ☐ C950 ABC-24 EASYSTART
  Printer driver for the Citizen ABC 24 pin printer

An exciting new up to date version of Pacman. If you liked the original you'll love this latest version of an all time Atari classic. (1 disk) Order a copy now

☐ **B810. SUPER PACMAN**

Desktop Video is a compilation of Video titlers. Includes programs to scroll messages/text, Letterbox. Supports Genlocks etc. (1 disk)

☐ **C821. DESK TOP VIDEO**

If you're after a new & addictive puzzle game then Multiplex is what you're after. It's a superb slide'n match game. (1 disk). Includes various levels of difficulty.

☐ **C852. MULTIPLEX**

Easy Calc Plus is the most powerful spreadsheet available on the Amiga. Contains most Lotus 123 features. Instructions included on disk. (1 disk)

☐ **B863. EASY CALC PLUS**

FREE!!!
FREE BOX OF TEN BLANK DISKS WITH EVERY ORDER OF 15 OR MORE TITLES
Don't forget to ask for them

Ten disks full of AGA girly pictures. Over 100 top quality images, all in 256 glorious colours. Each disk runs as a slide show for ease of viewing. Over 16's

Pack price Only £15.00

☐ **GRL15-10. AGA GIRLS**

A sign language tutorial. Learn how to speak with your hands. Animated hand signals and tests make this a great educational title. (1 disk).

☐ **C952. COMMUNICATE**

Connect your Amiga to either a PC, Amiga or CDTV and access any drive with ease, and transfer any information. TwinX & Parnet are the best Amiga networking software titles available.

Pack price £8.00

*PARNET lead available @ £20.00

☐ **COM8-3 NETWORKING**

Now you can design your own fonts for use in Deluxe Paint etc. over 70 additional fonts are also supplied. A very easy to use package. Don't miss it.

Pack price *Only £7.00*

☐ **FNT7-3. FONT EDITOR**

If you've just purchased your Amiga then you may be a bit boggled about how to use it properly, well this five disk set will see you right. The complete beginners guide

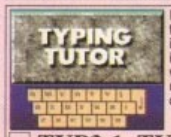
Only £9.00

☐ **ABG9-5. BEGINNERS**

Every Amiga owner should have a Virus killer. It ensures that you're safe from the 600+ Amiga viruses currently available.

Pack price only £4.00

☐ **VIP4-2. VIRUS KILLERS**



If you're new to computers then you may want to improve your typing skills, if you do then this software will take you step by step until you become competent

Only £3.00

☐ **TYP3-1. TYPING TUTOR**

If you want to create stunning Amiga music then this new version of Octamed Pro 2. Easy to use, & comes with complete instruction. (1 disk)

Sample disks available.

☐ **C721. OCTAMED PRO 2**

Three complete account packages, for home or for small business, they are invaluable, sort out your finances with ease, no more shuffling through heaps of papers. Easy to use.

Pack price Only £7.00

☐ **FIN7-3. FINANCE**

Perfect for all budding cooks & chefs this disk contains 150 excellent recipes for you to try yourself.

Pack price £3.00

☐ **GCB3-1. COOK BOOK**

Five of the best menu makers available. Includes titles such as Menu Master3, Ami-rage menu system, Quick menu & mega menu & more.

Pack price only £4.00

☐ **MNU4-2. MENU TOOLS**

SAMPLE DISKS

- ☐ E000-5 VOCALS 1-5 (5 DISKS)
- ☐ E006-5 BREAK BEATS (5 DISKS)
- ☐ 314-6 IFF SAMPLES (6 DISKS)
- ☐ A068-3 HOUSE SAMPLES (3 DISKS)
- ☐ B921-2 PURE SAMPLES (2 DISKS)

FONTS DISKS

- ☐ B569-3 FONTS GALORE (3 DISKS)
- ☐ B146 HEFT FONTS
- ☐ B139-6 AMIGA BITMAP FONTS (6 DISKS)
- ☐ A721 EXILE COLOUR FONTS
- ☐ A502 HEADLINE FONTS

ORDER FORM

Name .....

Address .....

.....

Tel ..... Amiga .....

Payment method .....

Credit card No. ..... Exp .....

Order Value

Total amount of PD disks X123 TITLE = 1 single disk X234-2 TITLE = 2 disks 1 Single disk £3.00 2-5 disks £2.00 each 6-10 disks £1.75 each 11 or more £1.50 each	QTY	
Amount of PD Packs XXX10-5 PACK TITLE Individually priced		= £
Other Items		= £
Goods value		= £
Postage & Packing Please add a total of 50p for P&P in the UK		= £
Amount enclosed		= £

All titles listed should work on any Amiga unless stated

OVERSEAS ORDERS

Overseas orders are welcome, but please add 25p to each disk ordered, & £1.00 to each Pack ordered, a minimum of 5 disks apply. All Overseas orders are sent by first class Air Mail.

COLLECTING DISKS

You are welcome to collect your PD order, but you are advised to phone it through prior to collection. Office hours: 9.30am-5.30pm Mon-Sat.

ORDERING BY POST

Simply send your order in on an A4 page, listing the numbers you require, the total cost, and your name & address or if you wish simply mark off the titles you wish to order, fill in your name etc, and send these pages to **EPIC MARKETING**, 1st Floor Offices, 31a Faringdon Rd, Swindon, Wilts SN1 5AR, enclosing full payment.

ORDERING BY PHONE

Call any time between 9.30 & 5.30pm Monday to Saturday with your credit card details and the disks you would like to order.

EPIC MARKETING, FIRST FLOOR OFFICES, 31a FARINGDON RD, SWINDON, WILTS, SN1 5AR

Order hotline. 0793 490988 Fax: 512073

An Arcade game with a hint of Dungeon Master. Features superb "Dungeon" graphics and atmospheric sound.

A908. DRAGON'S CAVE

Create professional looking front ends to your disks that look as if a professional programmer made them. Put in your own logo's, music & scrolly messages etc.

Pack price only £7.00

DMO7-3. DEMO MAKERS

Dcopy 3.1 is the most up to date PD copier available. Copy modes include Dos, various Nibble modes, Bam copy and more. If you want a good copier get this.

C576. DCOPY 3.1

A collection of A1200 degrader tools, it allows you to temporarily downgrade your A1200 so most older games work on your new Amiga. Essential.

C356. A1200 DEGRADERS

The complete system for cataloguing your Video, CD, Disk & Music collection, three disks of databases to keep track of your entertainment media.

Pack price only £5.00

CTG5-3. CATALOGERS

If Tetris is your sort of game, then this compilation of seven Tetris variations should satisfy your appetite.

Pack price only £9.00

TET9-5. TETRIS MAYHEM

This is the latest and most powerful A1200 degrader available. Will allow a huge range of older Amiga titles to work on the new Amiga's.

C892. RELOKICK 1.4

Double the space on your Hard disk, if you've got an 80meg you'll have over 150meg with this safe hard drive stacker, also works with floppies.

Pack price only £5.00

EPU5-2. EPU DISK STACK

If Poker's your game then this is it. Features lovely smooth professional quality graphics. Full House Poker is the best PD card game available.

B843. FULL HOUSE

Turn your Amiga into a PCXT. This demo version will run most XT software. Ideal for people that need both machines. The full version is available priced at £39.95

C554. PC TASK

Mr Men Olympics, up to 8 players can compete in a number of Olympic games, including Hurdles, 100 metres, Weight lifting, etc. (2 disks)

C623-2. MR MEN

Speed up the access of your disk drives with this memory resident disk accelerator, runs quietly in the background of your Workbench.

Pack Price £4.00

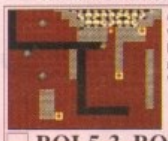
TDK4-2. TURBO DISK

Here's a version of gameboy tetris that you can play on your Amiga. A perfect transition, down to every detail.

B952. GAMEBOY TETRIS

"What a great game" That's what we have been told by everyone who has tried this great Breakout clone, and we have to agree.
Don't miss it!

C888. MEGA BALL AGA



A collection of Amiga versions of the classic title: Boulderdash, now with updated graphics & sound. Very addictive games.

Pack price £5.00

BOL5-3. BOULDERDASH

Operation Firestorm is by far the most professional looking Arcade shoot'em up available on shareware. Stunning graphics, gamesplay, & sound. Don't miss it.

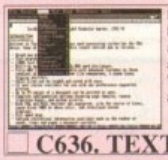
C777. OP. FIRESTORM

If fast paced shoot'em up's are what you like, you'll like this. Cybernetix is possibly one of the best shoot'em ups available, PD or commercial!

B973. CYBERNETIX

If you enjoy "shoot'em ups" then this is for you. Fast action and high speed are just two of the reasons this is such a good game.

C462. STARIANS



Rated as the Best to budget word processor available. It now includes a superb spellchecker. Version 4.1 is now available.

C636. TEXT ENGINE

A must for all Star Trek fans, a four disk AGA collection of very high quality pictures of Next Generation Space craft. Including: Enterprise, Klingon & Romulon. Well over 30 images.

Pack price Only £7.00

SRT7-4. STARTREK AGA

A PD version of Street fighter II, same professional graphics and game play. Even if you've got SF2 get a copy of this. It loads up a lot faster as well.

C235. FIGHTING WARRIORS

Run all your 48k Speccy software on the Amiga, very easy to use. Over 40 classic Spectrum games supplied, you can load from cassette via a standard sound sampler.

Other games available!
Pack price Only £5.00

*Tapedeck interface available @ £35.00

SPEC5-3. SPECTRUM EM

A super face top view car racing game, a lovely piece of programming, 2 player option included.

C745. HIGH OCTANE

A very popular arcade game, Drop rocks on Ork's heads and watch them splat. A very "Bloody" game. Over 16 year olds only.

Lots of Blood & Guts

C801. ORK ATTACK

SpaceBalls' State of the Art is one of the most Spectacular & popular Amiga rave demos around, now the second part is here, even bigger and even better, 2 great disks. Unreal!

C793-2. SPACEBALLS 2

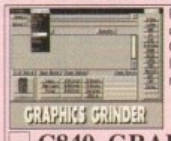
Feel the pressure of being in the "tower" and controlling the landing and taking off of aircraft. A great management/ strategy game.

C468. AIRPORT

If you want 100% error free disks then a box of quality tested disks with labels is your best choice. So when ordering PD ask for a box of Ten.

Only £4.95 a box

BLK5-10 TEN BLANK DISKS



Possibly the best graphics converter available. Convert between PCX, IFF, Degas and loads more.

C840. GRAPHICS GRIND

An up to date conversion of the classic Bomb Jack, lovely colourful graphics, and superb sound make this an all round addictive game.

C169. BOMB JACKY

An impressive collection of Imagine objects on a total of 10 disks, subjects include: Cars, Aircraft, Startrek, Starwars, Animals & Dinosaurs.

Pack price £15.00

IOD15-10. IMAGINE OBJECTS

The most professional Word searcher & crossword solver available on the Amiga. It features a dictionary of over 50,000 words and you can even add your own if you wish.

Pack price Only £5.00

WFP5-2. WORD FINDER

Includes: DLD, Power-Packer, Crunch mania, LHA, LHZ, & DMS to compact a whole disk into one file, everything you'll ever need to archive or de-archive any file anywhere.

Only £5.00

CRM5-2. CRUNCH MANIA

Do you like gambling but hate losing money? Well this superb Amiga version of roulette will see you right.

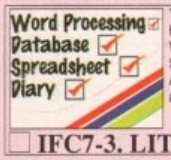
C243. ROULETTE

If you're football crazy or like management games then this is a must. Guide your chosen team to the top of the premier league.

C506. PREMIER PICKS

Transform your Workbench 2/3 into a new more stylish 8 colour system. 100's of new icons & backdrops. Each icon took the Author over 6 hours to produce.

C772. MAGIC WB



The perfect partner for home of office, features a Word processor, Spreadsheet & Database. A powerful companion for all small businesses.

Pack price £7.00

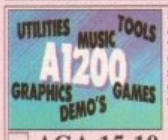
IFC7-3. LITTLE OFFICE

A futuristic fighting game. Battle with a varied range of robot creatures, stylish graphics are just one of this games features.

C276. A.R.E.N.A.

If you enjoy golf but do not like walking the course, then this is for you. 18 different holes to try. Excellent for those rainy days.

C573-2. 18TH HOLE GOLF



If you've just got your A1200 then this package will get you going. Ten disks packed with AGA software, inc: games, graphics, utilities, tools, music etc.

Pack price £15.00

AGA 15-10. A1200 PACK

Now available on PD the BBC emulator. Now you can emulate the BBC micro computer.

C837. BBC EMULATOR

EPIC MARKETING, FIRST FLOOR OFFICES, 31a FARINGDON RD, SWINDON, WILTS, SN1 5AR

Reach the top with... **LCL Self-Tuition Courses**

NATIONAL CURRICULUM*

Totally Comprehensive Courses *(each is a compilation of 24 programs with a book and manual).*
Of excellent quality *(e.g. "...a very recommendable edutainment program..." AMIGA USER INTERNATIONAL).*

Language courses that speak!

LCL announces an incredible new release!

NEW

MICRO SPANISH (Beginners – GCSE & Business)

Complete course of spoken and written Spanish. Suitable for holidaymakers, students, enthusiasts and businessmen (as it includes a program that generates your Spanish business letters automatically). It includes real speech on disk – so for example, in one program you see a large, cute cartoon Spaniard who speaks to you with his mouth moving as he talks. It demystifies Spanish and makes it fun. (1Mb).

- Pronunciation
- Colours
- The articles
- Big picture vocabulary
- The uses of 'ser' and 'estar'
- Wordsearch
- Ar verbs
- Signs & notices found in Spain
- Er verbs
- Small picture vocabulary
- Ir verbs
- Holiday Madness adventure game.
- Time
- Plurals
- Conversation
- Adjectives
- Future & immediate future tenses
- Listening comprehension
- Perfect & Preterite Tenses
- Imperfect Tense
- Opposites
- Role Play
- Newspaper
- Business letter generator

MICRO FRENCH (Beginners – GCSE) — New! Computer Talks

24 programs • Real speech • Graphics adventure game • Talking cartoon etc.

MICRO GERMAN (Beginners – GCSE & Business) — New! Computer Talks

24 programs • Real speech • Graphics adventure game • Business letter generator etc.

MICRO ENGLISH (8 years – GCSE) — New! Computer Talks

24 programs • Spelling • Punctuation • Grammar • Literature etc

"Invaluable revision aids" PC HOME.

MICRO MATHS (11yrs – GCSE) — *"excellent"* ED. COMP.

Helps you pass your GCSE and covers:

24-Program course includes:

- Percentages & Fractions
- Averages and histograms
- Ratio and proportion
- Number
- Mensuration
- Polygon properties
- Simple algebraic equations
- Simplification in algebra
- Simple and compound interest
- Solution of triangles
- Profit and loss
- Similar trinagles
- Geometry of the circle
- Advanced statistics
- Applications of Pythagoras theorem
- Trigonometry
- Factorisation of Algebraic equations
- Graphs
- Simultaneous equations
- Indices in Algebra
- Indices in Arithmetic
- Vectors
- Matrices
- Probability

MICRO SCIENCE (Physics, Chemistry & Biology, 8yrs - GCSE) — GHI Software choice

24 programs e.g. Tuition • Practical Experiments • Learning by Pictures • Adventure game etc. (1Mb).

PRIMARY MATHS COURSE (3-12 Years)

24 programs e.g. Tables • Add • Subtract • Divide •Multiply (Long & Short) • Fractions etc.

It's fun & it really works

MEGA MATHS (A level course)

24 programs e.g. Calculus • Algebra • Geometry • Full-screen graphs etc.

£5 OFF TOTAL FOR 2 COURSES, £10 OFF FOR 3, £17 OFF FOR 4

(*All appropriate LCL Courses are National Curriculum compatible & run on almost all Computers.)

£24.99 per course all inclusive. Cheques or P.O. payable to "LCL." We are always in stock.

LCL (DEPT AMC), THAMES HOUSE, 73 BLANDY ROAD, HENLEY-ON-THAMES, OXON RG9 1QB

VISA Access

Phone 0491 579345 & it will be sent within 24 hours

WIZARD GAMES

1 NORTH MARINE ROAD, SCARBOROUGH, NORTH YORKSHIRE, YO12 7EY. Tel:0723 376 586

AMIGA GAMES

Antheads/It Came From The Desert	£9.99
A-Train	£14.99
Allo Allo	£14.99
Bully's Sporting Darts	£5.99
Bug Bomber	£5.99
Burning Rubber	£14.99
Birds Of Prey	£9.99
Cardiax	£7.99
Crystal Kingdom Dizzy	£6.99
Cyberpunks	£12.99
Colossus Chess	£5.99
Creatures	£9.99
Dalek Attack	£9.99
Disposable Hero	£16.99
Double Dragon 3	£6.99
Exodus 3010	£6.99
Fantastic Dizzy	£16.99
Firehawk	£6.99
Funschool 2 6-8s	£6.99
Frontier (Elite 2)	£19.99
Funschool 2 over 8s	£6.99
Global Gladiators	£10.99
Graham Gooch	£14.99
Graham Gooch 2nd Innings	£10.99
Graham Taylor Soccer	£7.99
Gold Of The Aztecs	£6.99
Galactic Warrior Rats	£5.99
Huckle Berry Hound	£5.99
John Madden Football	£10.99
Jet Strike	£16.99
Killerball	£5.99
Laser Squad	£7.99
Lotus Trilogy	£15.99
Liverpool	£9.99
Manchester Premier League Champions	£19.99
Match Of The Day	£7.99
Manhunter	£7.99
Micro Machines	£17.99
Nightshift	£12.99
New Zealand Story	£6.99
Powermonger + WW 1	£11.99
Premier Manager 2	£16.99
Playdays 4 - 7 yrs	£9.99
Prince Of Persia	£5.99
Pictionary	£5.99
Pacific Islands	£9.99
Play & Read 4 to 9 yrs	£9.99
Plan 9 + Video Of Film	£8.99
Pacland	£5.99
Pacmania	£5.99
Quax	£10.99
Robocop 3	£10.99
Skidmarks	£14.99
Sink Or Swim	£9.99
Simpsons	£6.99
Sim City Architecture 1	£4.99
Sim City Terrain Editor	£4.99
Sim Life	£12.99
Suburban Commando	£14.99
Snapperazzi	£14.99
Striker	£7.99
Sooty & Sweep	£5.99
Sun Crosswords	£6.99
Times Crosswords	£6.99
Trivial Pursuit	£6.99
Tetris	£14.99
Thomas The Tank 1 & 2	£12.99
Trolls	£9.99
Volfield	£5.99
Zool 2	£16.99

CD 32

Alfred Chicken	£17.99
Arabian Nights	£10.99
Castles 2	£20.99
Chambers Of Shaolin	£17.99
D-Generation	£17.99
Dennis	£14.99
Disposable Hero	£19.99
Fire Force	£20.99
Fly Harder	£10.99
James Pond 2	£20.99
John Barnes European Football	£10.99
Labyrinth Of Time	£17.99
Liberation	£19.99
Microcosm	£34.99
Morph	£20.99
Mean Arenas	£20.99
Nigel Mansell World Champ	£17.99
Overkill/Lunar-C	£20.99
Pirates	£20.99
Seek + Destroy	£17.99
Sensible Soccer	£16.99
Seven Gates Of Jambala	£16.99
Sim City (CDTV does not save)	£6.99
Whales Voyage	£20.99
Zool	£17.99
Lotus Trilogy	£19.99
Nick Faldo Golf	£22.99

COMPILATIONS

AWARD WINNERS £20.99
SensibleSoccer/Jimmy White/Elite Plus

CARTOON COLLECTION £10.99
Treasue Island Dizzy/Slightly Magic/Seymour Goes To Hollywood/Spike In Transilvania/ CJ's Elephant Antics

DREAMLANDS £15.99
Ishar/Stormmaster/Transarctica

EXCELLENT GAMES £20.99
Shuttle/James Pond 2/ Populous 2/Archer Macleans Pool

DIZZY COLLECTION £10.99
Fast Food/Kwix Snax/Fantasy World Dizzy/Treasure Island Dizzy/Magicland Dizzy

SUPER ALL-STARS £10.99
Robin Hood Legend Quest/Magicland Dizzy/Captain Dynamo/CJ In The USA/ Steg The Slug

INTEGRAL £7.99 (French Instructions)
Lotus Esprit/Toyota Celica GT/Team Suzuki/Combo Racer

COLLECTORS £7.99 (French Instructions)
Lotus Esprit/James Pond/Venus The Flytrap/Ghouls 'N' Ghosts

ANY 3 FOR £10.00

Arcade Fruit Machine
Arcade Trivia Quiz
Blinky's Scary School
BSS Jane Seymour
Cyberblast
C-J Elephant Antics
Doc Croc's Adventures
Edd The Duck
Eskimo Games
F1 Tornado
Gilbert
Ghostbusters
Hoversprint
Impossamole
Monty Python
Puffy's Saga
Pro Soccer 2190
Resolution 101
Seymour Saves The Planet
Stack Up
Sharkeys Moll
Shoot Em Up Construction Kit
Track Suit Manager
Thunderstrike
Voodoo Nightmare
Video Kid
World Championship Boxing Manager
World Soccer
World Rugby
World Cricket
Xenon

When ordering please give 1 alternative.

SPECIALS NOT BOXED

Nigel Mansell	£7.99
Nigel Mansell 1200	£7.99
Zool	£7.99
Zool 1200	£7.99
KIDS PACK	£5.99

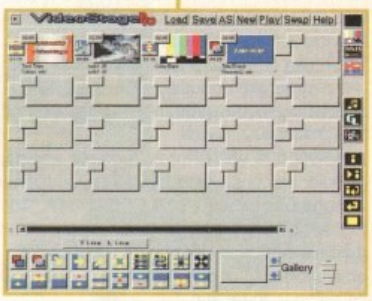
Postman Pat, The Munsters, Count Duckula.

Games subject to availability.
Please note - A phone call reserves your order.
Open 6 days a week
9.00 - 5.30
Price inc. P+P (UK).
Europe + £2. Rest Of World £3.50.
Shop prices may vary.
Cheques or Postal Orders Please Payable to Wizard Games

Presentation for peanuts

Horrified at the prospect of spending hundreds on a presentation package? Then read on as Paul Austin previews VSP, a classy cut-price alternative

Although a little rough in pre-production VSP's animated titling power is pretty impressive. Layered text and graphics, gradient fills on standard Amiga fonts and even support for EPS graphic files



Point-and-click personified. The only time you need the keyboard is to add the occasional string of text

Power presentation has become synonymous with expensive software such as Scala and MediaPoint – both of which cost a packet and offer a bucket full of features which many users may never actually need.

As a consequence, Oxxi have come to the rescue with the imminent arrival of VideoStage Pro – alias VSP. In essence the program has been designed to offer all the video titling and multimedia essentials without the whistles and bells such as Midi, laser disk support, Canon ion cameras and so on.

Like any self-respecting presentation or titling package, ease of use is a high priority and in the case of VSP this is guaranteed via the entirely point and click interface.

As you can probably tell, the main screen is divided into four basic areas. Across the top are the usual array of load and save options plus a useful swap button which allows you to alternate between two projects. As a result it's very easy to swap elements between various projects using simple cut and paste operations.

Below the tool bar sits the real heart of the VSP system. As you can see the program employs a page system to display either single pages, audio events, animations, ARexx triggers, active genlock pages and VSP's own index events.

Alongside every page sit two additional icons, one of which controls the timing information while the second handles transition to the next page.

Although rather insignificant looking, these icons hold the key to VSP's titling and presentation power. For example, a click on the timing icon will instantly reveal a pop-up requester which holds an impressive array of options. Not surprisingly, you can simply add display times in seconds or jiffies – 1/50 of a second increments – but it's also possible to specify that the timing is to be recorded according to mouse clicks during playback of the sequence.

In addition, you're also given the option to schedule the sequence to run on a time/day/month and year. And when this is added to the program's ability to add interactive buttons and sub-routines, you have the basis of a very respectable interactive point-of-sale system.

TRANSISTIONS

Moving on to transition control, you're given two alternatives; you can either select one of the 20 transition types which sit permanently at the bottom of the screen, or click directly on the icon itself which will produce a requester holding the entire range of 68 assorted wipes, fades, scrolls and block transitions.

As you'd expect, transition speed is user-definable, but perhaps most impressive is the mini preview window which actually shows the selected transition in action via two thumbnail dummy pages. Assuming you've defined the appropriate timing and added the transition of your choice, it's time to move on to the next page in the presentation. In the case of video work this is most likely to be the titling page but there's a fairly impressive selection to choose from.

Along the right side of the main screen await all the available page options which from top to bottom include a basic black page, followed by a rather odd colour bar. Quite why these have been added as defaults rather than simple IFFs is a mystery, but I suppose it's still early days.

Following these come the essential Title and IFF options. As the name suggests, the Title page allows you to add animated text to the page. which like full page transitions has its own selection of approximately 45 intros for either text, brushes or VSP's own internally-generated graphics, such as the stars ➤

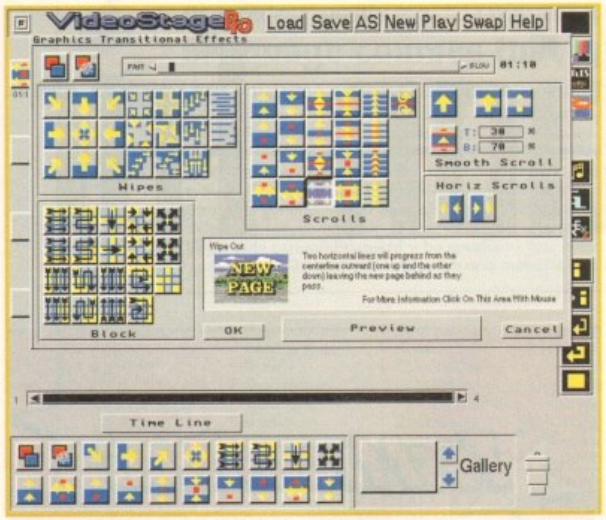
Easy authoring

Now before you run away in terror at the prospect of sub-routines and goto commands don't worry, there's no need to panic. This elementary approach to programming is very straightforward.

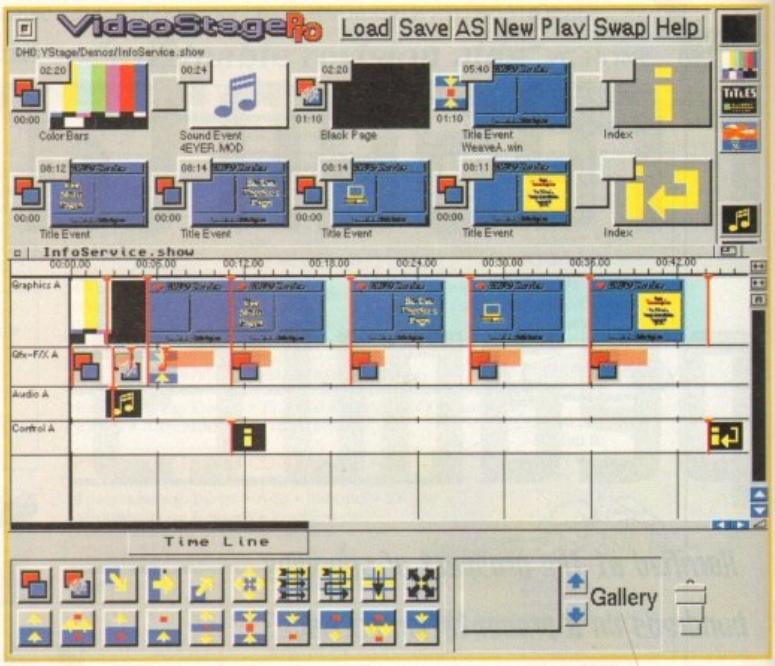
Basically the assorted index pages – shown as a series of yellow control icons – are only there for those who wish to use VSP as a interactive presentation platform.

With the assistance of the various index commands, an author is given an easy method of redirecting the user around the script according to button and hot-spot selections.

For example you can construct a simple information system which will take the user down a particular route and then perhaps return them to the main screen automatically.



An impressive range of page transitions most of which have real-time preview in the thumbnail graphics window



Timeline control, fine tuning of multiple events with simple sliders and instant access to the editors

in the Test Transition screenshot overleaf.

As you'd expect from a titling package, 3D, drop shadow, italics and outlined text are all on offer in addition to a selection of backdrops or IFF of you choice.

You can add buttons and hot-spots which can redirect the script, play a sample or issue an ARexx command. And of course anti-aliasing is optional on all graphic pages.

IFF pages offer much the same as far as text handling is concerned but they also provide the added benefit of optional animation. Moving on we come to the sound event, which can be either a sample or MOD which will play asynchronously with the graphics according to the timeline – more on that later.

Below this you're provided with special genlock screens which exploit the additional videographic power of the ECS chipset. Add to that standalone ARexx control pages and the selection of index markers – user definable sub-routines or goto pages – and the selection is complete.

GALLERY

The only other obvious element of the main screen is the rather mysteriously titled gallery window. Basically this is a graphical approach to cut and paste.

For example, if you want to copy an element to a various location you simple drag it into the gallery window, scroll to the appropriate position and drop it back in.

Although useful on larger presentations, the Gallery only really comes into its own when sharing elements from existing presentations. As mentioned earlier, it's possible to open two presentations simultaneously – in which case the Gallery can be invaluable in allowing you to copy pages complete with define effects and timing and drop them straight into another script.

Although timing control is handled fairly extensively via the individual icons for each page, the program also provides a method of fine tuning the presentation via the Timeline control window which pop-ups via a control button towards the bottom of the screen.

Once active, all the elements within the script are shown on a linear timeline with various drag bars displaying the particular timing information for the various events in the script.

As you're already aware, not all the possible events within a VSP presentation are necessarily graphical. As a result, the timeline provides a method of non-graphically asynchronously co-ordinating events with their pictorial counterparts.

For example an ARexx or audio event can be triggered during a transition or animation. In such circumstances the timeline graphics can be an invaluable aid when constructing complete multiple events within a complex presentation.

In fact for the expert the timeline can almost become a complete replacement for the main control screen. In order to edit a particular event, whether it be a transition or a complete page, you just click on its timeline graphic and the appropriate selection screen or editor appears. AC

Background

If you've been involved in the Amiga scene for some time there's a good chance that the VSP interface will seem vaguely familiar. The reason is that the program is a direct descendant of another Oxxi product entitled Presentation Master.

Although a very impressive product, Presentation Master did suffer from something of an identity crisis and never really found its place in the market.

In fact it's probably fair to say it was a little too far ahead of its time in attempting an ambitious combination of presentation, hypertext and DTP which often demanded too much effort on the part of the machine and its operator.

As a consequence, the best elements of Presentation Master have now been boiled down to form VSP. Fortunately the process is being handled well and the new program is becoming very much a product in its own right thanks to various dedicated videographic and titling add-ons.

Verdict

Thanks to the basic framework provided by Presentation Master and the extra videographic essentials such as genlock support it would appear VSP could well take the semi professional video market by storm.

This seems even more likely if the rumours of a price point of around £100 actually turn out to be true. However, it's not all plain sailing for the program. Although the basic structure of the package is in place, it's still a long way from perfect when it comes to playback.

During the review the program was tested on an A4000/040 and an A2000 running a GVP 030 with a 68882 FPU. On the 030, playback was particularly poor even though the machine boasted 2Mb of chip RAM and another 12Mb of fast.

Although all the transitions worked, the vast majority were very jerky and in some cases suffered from occasional screen corruption. The same was true in the Title Edit screen which also added unwanted elements within text strings.

However it must be stressed that the program is still very much a Beta test release, so a certain amount of buggy behaviour is to be expected.

As this is most definitely a preview rather than a review, any form of scoring would be highly inappropriate. However, if Oxxi can address the problem of occasional screen corruption and improve playback, the big guns in the Amiga presentation market may well have a real problem on their hands when the finished version finally hits the streets.

AMIGA

NEW! AMIGA 1200 + CD32 PACKS

FROM SILICA – THE UK's No1 AMIGA SPECIALISTS

CONTACT US FOR YOUR *FREE* 64 PAGE AMIGA CATALOGUE

FREE! FROM SILICA

CHAOS! SOFTWARE PACK

When you buy your Amiga from Silica, at our advertised prices, we will give you one or more free gifts. The gifts include the new Chaos pack, GFA Basic & Photon Paint II. Check this ad to see which gifts come with each Amiga from Silica. An enhanced AGA version of Chaos that takes full advantage of the AA Chipset will be sent with A1200 & A4000s.

CHAOS ENGINE	£25.99
SYNDICATE	£34.99
PINBALL FANTASIES	£29.99
NICK FALDO'S CHAMPIONSHIP GOLF	£34.99
CHAOS PACK:	£125.96
GFA BASIC v3.5 - Powerful Basic Programming Language...	£50.00
PHOTON PAINT II - Powerful Graphics Painting Package...	£89.95
TOTAL VALUE:	£265.91

WORTH OVER £265

AMIGA 600 LEMMINGS PACK

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

FREE DELIVERY

PACK INCLUDES:

1mb AMIGA 600	£199.99
BUILT-IN 1mb DRIVE	–
BUILT-IN TV MODULATOR	–
DELUXE PAINT III	£79.99
LEMMINGS	£25.99
FREE FROM SILICA (See Top Left)	£125.96
TOTAL PACK VALUE:	£431.93
LESS PACK SAVING:	£242.93
SILICA PRICE:	£189.00

1 Mb RAM PREVIOUSLY ~~£249~~ £189 INC VAT - AMC 0606

2 Mb RAM PREVIOUSLY ~~£299~~ £219 INC VAT - AMC 0666 + RAM 0805

AMIGA 600 WILD, WEIRD & WICKED

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

FREE DELIVERY

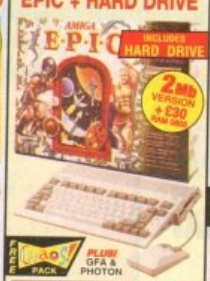
PACK INCLUDES:

1mb AMIGA 600	£199.99
BUILT-IN 1mb DRIVE & TV MODULATOR	–
DELUXE PAINT III	£79.99
MICROPROSE GRAND PRIX	£34.99
SILLY PUTTY	£25.99
PUSH OVER	£25.99
FREE FROM SILICA (See Top Left)	£125.96
TOTAL PACK VALUE:	£492.91
LESS PACK SAVING:	£293.91
SILICA PRICE:	£199.00

1 Mb RAM PREVIOUSLY ~~£249~~ £199 INC VAT - AMC 0649

2 Mb RAM PREVIOUSLY ~~£299~~ £229 INC VAT - AMC 0649 + RAM 0805

AMIGA 600HD EPIC + HARD DRIVE



1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

FREE DELIVERY

PACK INCLUDES:

1mb AMIGA 600	£199.99
BUILT-IN 1mb DRIVE & TV MODULATOR	–
84mb HARD DISK	£179.00
EPIC - A SCI-FI ADVENTURE	£29.99
ROME - ROLE PLAYING ADVENTURE	£25.99
MYTH - STOP THE SPREAD OF EVIL	£19.99
TRIWAL PURSUIT - POPULAR QUIZ	£29.99
FREE FROM SILICA (See Top Left)	£265.91
PACK VALUE:	£750.86
PACK SAVING:	£401.86
SILICA PRICE:	£349.00

1 Mb RAM 64 Mb HD £349 INC VAT - AMC 0964

1 Mb RAM 85 Mb HD £399 INC VAT - AMC 0965

AMIGA 1200 PACKS + HARD DRIVE OPTIONS

RACE 'N' CHASE

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

FREE DELIVERY

PACK INCLUDES:

- 2mb Amiga 1200
- Trolls AGA
- Nigel Mansell's World Championship AGA
- + FREE FROM SILICA (See Top Left)

RACE 'N' CHASE

2 Mb RAM, 0 Mb HD	£299
2 Mb RAM, 80 Mb HD	£449
2 Mb RAM, 127 Mb HD	£499
2 Mb RAM, 200 Mb HD	£549
2 Mb RAM, 340 Mb HD	£699

COMPUTER COMBAT

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

FREE DELIVERY

PACK INCLUDES:

- 2mb Amiga 1200
- Total Carnage
- Brian The Lion
- Zool 2
- WordWorth V2
- WordWorth Print Manager
- Day By Day Planner
- Personal Paint V4
- + FREE FROM SILICA (See Top Left)

2 Mb RAM, 0 Mb HD	£349
2 Mb RAM, 80 Mb HD	£499
2 Mb RAM, 127 Mb HD	£549
2 Mb RAM, 200 Mb HD	£599
2 Mb RAM, 340 Mb HD	£749

AMIGA 1200 SPECIFICATIONS

- 68020/EC Processor - 14.19mhz Clock Speed
- 32 bit Architecture/2mb Chip RAM
- Amiga DOS v3.0/Built-in TV Modulator
- AA Chip Set/16.8 Million Colours
- 1 x 32-Bit CPU/RAM Expansion Slot
- PCMCIA Smart Card Slot
- 96 Key Keyboard with Numeric Keypad
- 2½" Internal IDE Hard Drive Options
- 1 Year On-site Warranty

HARD DRIVE OPTIONS

- Approved 2½" Hard Drives
- Fitted correctly below metal safety shield - does not invalidate warranty
- Covered by Commodore's Official 1 Year On-Site Warranty
- Look for Special 'Official Upgrade' sticker

AMIGA 4000 SPECIFICATIONS

1 YEAR ON SITE/AT HOME WARRANTY ON ALL CONFIGURATIONS

FREE DELIVERY

The A4000 runs at up to **21 times** the speed of the A600.

GRAPHICS :

- 16.7 MILLION COLOURS
- RESOLUTIONS UP TO 1280x512 and 800x600

OPEN ARCHITECTURE:

The A4000 has been designed for maximum flexibility providing plenty of room for memory & peripheral expansion.

- 4x16/32-BIT ZORRO III SLOTS (TOWERx5)
- 2xPC-AT SLOTS (TOWERx4)
- 1x24-bit VIDEO SLOT (TOWERx 2)

POWER :

- 1.76mb 3½" FLOPPY DRIVE

NEW! AA CHIPSET

AMIGA 4000 CONFIGURATIONS

The Amiga 4000 030EC, 040LC and 040 SCSI Tower are available in several RAM/Hard Drive options from Silica (please see below). All are fully configured and approved and carry Commodore's full one year on-site warranty.

RAM upgrades are also available from Silica. Due to current fluctuations in the market, please call for upgrade prices.

25MHz 68030EC DESKTOP

2 Mb RAM, 130 Mb HD	£999
4 Mb RAM, 130 Mb HD	£1099
6 Mb RAM, 214 Mb HD	£1199
6 Mb RAM, 540 Mb HD	£1499

25MHz 68040LC DESKTOP

6 Mb RAM, 214 Mb HD	£1649
6 Mb RAM, 540 Mb HD	£1899

25MHz 68040 SCSI TOWER

6 Mb RAM, 214 Mb HD	£1999
6 Mb RAM, 525 Mb HD	£2299
6 Mb RAM, 1Gb HD	£2599

RAM UPGRADES CALL FOR PRICES

CDTV ADD-ON FOR A500 or A500PLUS

FREE DELIVERY

FREE SOFTWARE SEE BELOW

A570 UPGRADE

WINNER - AMIGA GOLD AWARD 91%

- Clips to side expansion port
- Enables your Amiga 500 to run CDTV software
- Plays normal audio CD discs
- Storage capacity equal to 600 floppy disks
- Transfer time 153Kb/second
- Compatible with CD + G and CD + MIDI formats
- Compatible with ISO9660 standard
- Some old A500s need modification - call for details

FREE FROM SILICA WORTH £49

HUTCHINSONS ENCYCLOPEDIA RRP £29.99

CDPD1 - Inc FRED FISH - 600 Public Domain Titles RRP ~~£99~~ £19.99

RRP ~~£99~~ £99 INC VAT - CDD 0001

FREE DELIVERY

APPROVED

Silica are a fully authorised Amiga dealer. We can upgrade Amiga 600 or 1200's with hard drives, for new or existing owners, without affecting Commodore's official on site warranty. We offer other upgrades and repair service for A500 and A500Plus computers.

UPGRADES & REPAIRS

- *Latest test equipment*
- *20 trained technicians*
- *1,000s of parts in stock*
- *FAST, 48 hour service*
- *We can collect (£5+VAT)*
- *FREE return courier*
- *All work guaranteed*

CALL FOR A PRICE LIST

STEREO MONITOR FOR ALL AMIGAS

FREE AMIGA CABLE FROM SILICA

1084S

- 42mm Dot Pitch 14" Colour Screen
- 600 dots x 285 lines Resolution - 15.75khz
- Analog RGB, Digital TTL and Composite Video
- External Controls: Volume, Brightness, Contrast, Colour, Horizontal & Vertical Centring Height
- Anti-glare Screen
- Headphone Socket
- Stereo Sound

CABLE REQUIRES 1DB 023Z - CAB 5230 - £9.95 INC VAT

FREE DELIVERY £199 INC VAT - MON 0185

TV/MONITOR FOR ALL AMIGAS

NEW

FREE AMIGA SCART CABLE FROM SILICA

- 14" Remote Control Colour TV/Monitor
- Inc RGB Scart Socket for use with Amigas
- Infra Red Remote Control
- On Screen Display to Adjust Colour/Volume
- On/Off Timer
- Flash Back Feature
- 40 Channel Programme Memory
- FREE Amiga Scart Cable from Silica

FREE DELIVERY £169 INC VAT - MON 0320

CD32 SPECTACULAR VOYAGE

GREAT NEW PACK NOW WITH

MICROCOSM + CHAOS ENGINE

PLUS! DANGEROUS STREETS WING COMMANDER DIGGERS & OSCAR

NEW! NOW WITH 6 CD TITLES

FMV MODULE

CD-i LINEAR COMPATIBLE

- PLUGS INTO THE BACK OF THE CD32
- ALLOWS YOU TO PLAY VIDEO CDs Full screen, full motion films & music videos
- CD-I LINEAR COMPATIBLE Allows you to play CD-i films & music videos
- PERFECT FREEZE FRAME
- INSTANT TRACK SELECTION
- SUPERB CD QUALITY SOUND

AVAILABLE APRIL '94

£199 INC VAT - CDA 0202

FREE DELIVERY

A FULL RANGE OF GAMES, FILMS & MUSIC VIDEO TITLES ARE AVAILABLE FOR CD32 - CALL FOR A PRICE LIST

- 32-BIT POWER The worlds first CD-ROM console to use 32-bit technology, 4 x faster than a 68000 CPU
- 2mb RAM
- CD QUALITY STEREO SOUND
- 16.8 MILLION COLOUR PALETTE
- GAMES FROM BELOW £20
- PLUGS INTO A TV OR MONITOR
- PLAYS MUSIC CDs
- DUAL SPEED Transfers data almost twice as fast as ordinary CD-ROM drives
- MULTI-SESSION Recognises ALL data on CDs, even if the information was added after initial pressing
- 11 BUTTON CONTROL PAD
- COMPATIBLE WITH 26 CDTV TITLES
- FULL SCREEN VIDEO-CD Optional extra FMV module which allows you to watch films on the CD32 - compatible with the latest Video-CD standard, endorsed by JVC, Matsushita, Philips and Sony (see left)
- CD-I LINEAR COMPATIBLE With optional FMV module, will play CD-i films and music videos
- 6 FREE CD TITLES
  - MICROCOSM
  - CHAOS ENGINE
  - DANGEROUS STREETS
  - OSCAR
  - WING COMMANDER
  - DIGGERS

FREE DELIVERY

CD32 + 6 FREE CD TITLES £289 INC VAT - CCD 3299

10001803/4

SILICA - THE AMIGA SPECIALISTS

SILICA 15 YEARS 1978 1993 SERVICE TO YOU

Before you decide when to buy your new Amiga computer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after buying your Amiga, when you may require additional peripherals or software, or help and advice. And, will the company you buy from contact you with details of new products? At Silica, we ensure that you will have nothing to worry about. With our unrivalled experience and expertise, we can meet our customers' requirements with an understanding which is second to none. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Service".

- **COMMODORE APPROVED UPGRADES:** Official Hard Drive upgrades with ICL on-site warranty.
- **FREE OVERNIGHT DELIVERY:** On all hardware orders shipped in the UK mainland.
- **TECHNICAL SUPPORT HELPLINE:** A team of Amiga technical experts will be at your service.
- **PRICE MATCH:** We match competitors on a "Same product - Same price" basis.
- **ESTABLISHED 15 YEARS:** We have a proven track record in professional computer sales.
- **PART OF A £50M A YEAR COMPANY:** With over 200 staff - We are solid, reliable and profitable.
- **CORPORATE & EDUCATION DIVISION:** Volume discounts are available. **Tel: 081-308 0888.**

- **SHOWROOMS:** We have demonstration and training facilities at all our stores.
- **THE FULL STOCK RANGE:** All of your Amiga requirements are available from one supplier.
- **FREE CATALOGUES:** Will be mailed to you, with special reduced price Amiga offers, as well as details on all Amiga software and peripherals.
- **PAYMENT:** We accept most major credit cards, cash, cheque or monthly terms (APR 29.8% - written quotes on request).

SILICA

HOT LINE 081-309 1111

MAIL ORDER: 1-4 The Mews, Hatherley Road, Sidcup, Kent, DA14 4DX **Tel: 081-309 1111**

CHELMSFORD SHOP:	Debenhams (2nd Floor), 27 High St, Chelmsford, Essex, CM1 1DA	Tel: 0245 490654
CROYDON SHOP:	Debenhams (2nd Floor), 11-31 North End, Croydon, Surrey, CR9 1RQ	Tel: 081-688 4455
GLASGOW SHOP:	Debenhams (5th Floor), 97 Argyle St, Glasgow, Strathclyde, G2 8AR	Tel: 041-248 3896
IPSWICH SHOP:	Debenhams (2nd Floor), Waterloo House, Westgate St, Ipswich, IP1 3EH	Tel: 0473 287092
LONDON SHOPS:	52 Tottenham Court Road, London, W1P 0BA	Tel: 071-580 4000
	Selfridges (Basement Arena), Oxford Street, London, W1A 1AB	Tel: 071-629 1234
MANCHESTER SHOP:	Debenhams (3rd Floor), Market St, Manchester, Lancashire, M60 1TA	Tel: 061-839 3654
SIDCUP SHOP:	1-4 The Mews, Hatherley Road, Sidcup, Kent, DA14 4DX	Tel: 081-302 8811
SOUTHEND SHOP:	Keddies (2nd Floor), High Street, Southend-on-Sea, Essex, SS1 1LA	Tel: 0702 468039

To: Silica, AMCOM-0594-104, 1-4 The Mews, Hatherley Road, Sidcup, Kent, DA14 4DX

PLEASE SEND A 64 PAGE AMIGA COLOUR CATALOGUE

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

Company Name (if applicable): .....

Address: .....

..... Postcode: .....

Tel (Home): ..... Tel (Work): .....

Which computer(s), if any, do you own? 104AA

E&OE - Advertised prices and specifications may change - please return the coupon for the latest information.

OPEN ALL HOURS

WELL, NEARLY!
9am-10pm Mon-Sat
10am-6pm Sunday

SPECIAL OFFERS!!

LOOK! LOOK! LOOK!

DSDD DISKS 29p

Ask for "Special Offer" when ordering

100 DISKS + 100 CAP BOX £31.99

2.5" HARD DRIVES FOR A600 / A1200

40 MEG	£119
80 MEG	£189
120 MEG	£209
250 MEG	£259
340 MEG	£309

Including lead, fixing screws & instructions

PRINTERS & RIBBONS

Star LC20	£133.00
Star LC100 Colour	£159.00
Star LC200 Colour	£194.00
Seikosha SP1900 9 Pin Mono	£119.00
Seikosha SL95 24 Pin Col	£189.95
Star LC24-30 + Auto Sheet Feeder	£229.95
Star LC24-200 Colour	£274.00
LC20/100 mono ribbon	£4.50
LC100 colour ribbon	£6.75
LC24 200 mono ribbon	£5.50
LC24 200 colour ribbon	£13.50
LC200 mono ribbon	£4.50
LC200 colour ribbon	£9.75

LEADS & CABLES

Printer	£3.99
Serial	£4.99
Null Modem	£5.99
Joystick Extender 3 metre	£3.99
Joystick/Mouse Extender	£3.99
Amiga to SCART	£7.99
Amiga to 1084S/8833	£7.99
Analog Joystick Adapter	£4.99
4 Player Adapter	£5.99

LOOK! LOOK! LOOK!

TRACTORFEED DISK LABELS

Now you can print your own professional disk labels! 500 Plain white disk labels on tractor feed, complete with FOUR disks of software and artwork.

Yours for ONLY £9.95

1000 Labels with software ONLY £13.50

AMIGA HARDWARE

A1200 Race and Chase Pack	£289.95
A1200 Desktop Dynamite	£329.95
CD32 + Oscar / Diggers	£289.95
Amiga A4000	£Phone
1084 S Monitor	£174.95
Cubscan 1440 Multisync	£399.95
External Floppy + Virus Killer	£56.95
A500 Internal Floppy Drive	£48.95
A500 512K Ram Exp. + Clock	£23.50
A500 1.5 Meg Ram Exp.	£76.95
A500+ 1 Meg Ram Exp.	£33.95
A1200 2 Meg Ram Exp+Clock	£109.95
A1200 4 Meg Ram Exp+Clock	£174.95
A500 Power Supply	£29.95

DISKS & LABELS

All disks are supplied with labels. UNBRANDED DISKS are 100% error free.
In the unlikely event that any of our disks are faulty, then we will replace the disks **AND** reimburse your return postage!

3.5" DSDD Grade A	£0.37 each
3.5" DSDD Grade B	£0.29 each
3.5" Rainbow	£0.44 each
3.5" DSHD	£0.58 each
3.5" DSDD Fuji (box of 10)	£4.90
3.5" DSHD Fuji (box of 10)	£8.90
5.25" DSDD Fuji (box of 10)	£2.50
5.25" DSHD Fuji (box of 10)	£4.90
1000 3.5" labels	£6.50
1000 3.5" tractorfeed	£8.50

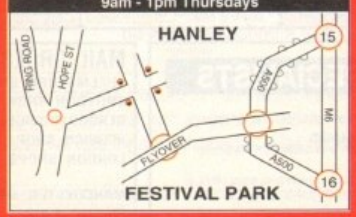
STORAGE BOXES

Most types are available for 3.5" or 5.25" disks.

10 capacity	£0.95
20 capacity	£1.95
40 capacity	£3.49
50 capacity	£3.95
100 capacity	£4.50
80 capacity Banx drawer	£8.49
150 capacity Posso drawer	£15.95
200 capacity drawer	£14.95

VISIT OUR NEW SHOP

9.30am - 5.30pm Mon - Sat
9am - 1pm Thursdays



MISCELLANEOUS

Mousehouse	£1.80
Mousemat 9mm thick	£2.50
Diskdrive cleaner	£1.80
A500 Dustcover	£3.50
A600 Dustcover	£3.50
A1200 Dustcover	£3.50
Monitor Dustcover	£3.50
LC20 Dustcover	£3.50
LC100 Dustcover	£3.50
LC200 Dustcover	£3.50
LC24-200 Dustcover	£3.50
Roboshift	£13.95
Amiga Lightpen	£29.95
Optical Mouse	£32.00
Manhattan Mouse	£9.99
Megamouse II	£11.95
Megamouse 400 DPI	£12.95
Point Mouse	£12.95
Alfadata Trackball	£26.95
Crystal Trackball	£32.00
Zydek Trackball	£25.95
Zyfi Amp/Speakers	£37.50
Action Replay Mk III	£56.95
Midi Master	£26.00
Tilt/Turn Monitor Stand	£9.95
2-piece Printer Stand	£3.49
Metal Printer Stand	£8.99
A4 Copyholder	£5.99
Metal Angle Poise Copy Holder	£14.95
A500/A600 ROM Sharer	£14.95
V1.3 ROM	£25.95
Microperf Tractorfeed Paper: 500 sheets	£4.50
2000 sheets	£13.00

JOYSTICKS

All joysticks have autofire feature except those marked *.

Trigger Grip Models	
Quickshot turbo	£6.95
Python 1M	£7.99
Jetfighter	£12.00
Topstar	£19.50
Intruder	£21.50
Base Fire Button Models	
Maverick 1M	£12.95
Megastar	£21.50
Zipstick	£12.95
Comp Pro 5000*	£10.95
Comp Pro Extra	£12.95
Comp Pro Star	£12.95
Cruiser Multicolour*	£9.95
Advanced Gravis Black	£24.99
Advanced Gravis Clear	£27.99
Comp Pro Star MINI	£14.95
Aviator 1 Flightyoke	£23.50
Handheld Models	
Speedking	£10.50
Navigator	£13.95
Bug	£12.00

ANALOG JOYSTICKS

These Joysticks will fit any Amiga

Warrior 5	£14.95
Saitek Megagrip 3	£19.50
Speedking Analog	£13.95
Intruder 5	£25.50
Aviator 5 Flightyoke	£27.50
Adaptor to use any PC analog joystick on an Amiga	ONLY £4.99

COMPUTER SUPPLIES **Direct**

0782 206808 - Anytime
0782 642497 - 9.00am-5.30pm Weekdays
0630 653193/0782 320111 - Evenings & Weekends

BUSINESS HOURS
9am to 10pm Mon-Sat, 10am to 6pm Sun
All items and offers subject to availability. E&OE
Postage £3.30 Next Day £3.75
We accept POs, cheques & credit cards
Please write Cheque Card Number on cheque for instant clearance

BUSINESS AND EDUCATION ORDERS WELCOME All Prices Inc VAT

DIRECT COMPUTER SUPPLIES 36 HOPE STREET, HANLEY, STOKE-ON-TRENT ST1 5BS

amiga update

Steve White checks out the latest contender to the paint package crown, Cloanto's Personal Paint

Italian stallion

It was only recently that the Amiga's premiere paint package, Deluxe Paint, was knocked off the top by Brilliance. Deluxe Paint has become the Amiga owners' favourite due to its technical ability and the fact that Commodore later decided to package the program with Amiga models.

And even though Brilliance is technically better in almost all areas, it still hasn't managed to dent Deluxe Paint's popularity with punters.

Time now then for a new paint package to put on the gloves and challenge the champ. Personal Paint comes from Italian software house Cloanto, responsible for the Personal Fonts Maker program, and boasts some major improvements over previous versions.

Personal Paint v4.0 features the ability to draw in Ham8, which is exclusive to the A1200 and A4000 Amiga models, although the program will run on any machine with 1Mb RAM, including the A500.

It is fair to state that Personal Paint features a myriad of new features not supported by Deluxe Paint, but a paint package relies heavily on its ease-of-use – technical merit tends to come second.

The untrained eye could be fooled into thinking that Personal Paint is in fact Deluxe Paint, and to all intents and purposes the user interface is very similar. Most of the standard drawing tools are available plus a few new ones.

STANDARD

Apart from supporting all present Amiga graphics modes, Personal Paint also has the ability to load and save files in different formats. Not only is the IFF/ILBM standard supported but also GIF, PCX, CRYPT and C_Scr.

Crypt allows the user to protect his or her pictures with a passcode and C_Scr saves the image as C source code suitable for embedding into Amiga graphics programming environments.

Once an image is loaded, Personal Paint offers a variety of editing tools, most of which are available in Deluxe Paint. The arc tool has been much improved containing points which the user can drag in order to increase or decrease the curvature of the arc. The only problem with this tool is that when dragging points vertically or horizontally, the mouse stops at the screen edges and the curve can be extended no further. This is a major error which needs to be corrected as soon as possible.

Personal Paint also supports retargetable graphics including Picasso and Retina. However, when I tried to load a standard ILBM created in Imagine the program quit. Why I don't know!

Going back to the editing tools. Drawing with extended pen nibs or brushes causes the program to slow considerably, and this on an A1200 with an 030 accelerator, FPU (floating point unit) and 4Mb of RAM. Deluxe Paint, even with full screen brushes, renders them quickly and without slowing down and therefore Personal Paint loses points to its rival.

A useful feature is the Grab Application Screen which when activated allows the user to grab a screen of the Workbench or any other open application and dump the file onto the editing screen.

Personal Paint is capable of combining two pictures into one and creating a suitable palette. This is ideal for anyone who wants to combine pictures which contain different palettes into one single image or an animation in Deluxe Paint. In fact, an unlimited number of pictures can be merged with very little colour reduction.

Of course, the quality of the reduction depends greatly upon how many colours your initial picture contains but an AGA machine should have no problem remapping colours.

It is Personal Paint's image processing tools that make this a worthy paint package alone. It may not have animation or perspective facilities but the combination of advanced image processing and competent editing tools makes Personal Paint one of the best all-round paint packages available.

The major power of Personal Paint is in its image processing abilities. Although rendering is fairly slow the results are effective. The most spectacular process is water-colour which makes the image look like it has been painted by a qualified water colour artist. Image processing can also be applied to defined areas of the image allowing for touching up or spot effects

Apart from the customary blur, emboss and pixelise-type processing options, more advanced functions are available such as water-colour. The water-colour effect is truly amazing and gives a very realistic impression of such a painting.

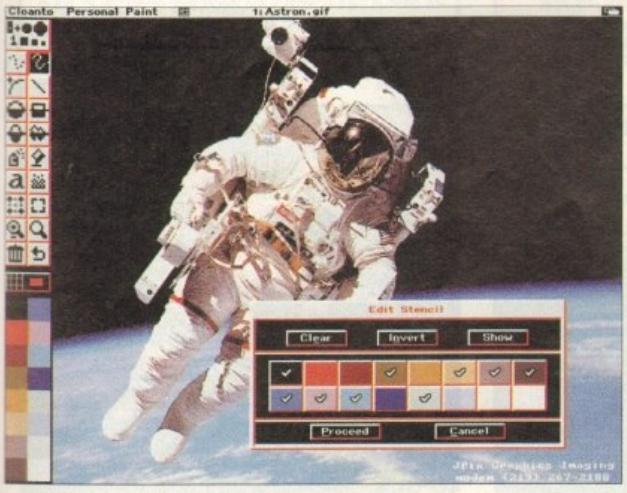
A special tool has been added which allows you to image process on specified areas of the screen. This means you can draw a shape and then process any data under that shape without affecting the rest of the screen.

PROCESSING

Unfortunately most, if not all of the image processing functions are very slow, even on the lower screen formats. Why the image processing and drawing tools are so slow is a mystery but it is a problem that certainly needs addressing and hopefully Cloanto will solve it with later versions.

Personal Paint is a great paint and processing package but there a few niggles that do let it down. The lack of animation or perspective hold it back considerably but as an addition to Deluxe Paint it is certainly worth the asking price. The wealth of image processing features provided justify the price alone.

Personal Paint costs £49.99. For more information contact Meridian Software Distribution on 081-543 3500. AC



Many users may be fooled into thinking that Personal Paint is Deluxe Paint. The similarities are vast but both offer distinct facilities that when combined offer extensive graphic design abilities

The bottom line

Ease of use: 8
Implementation: 7
Value for money: 9
Overall: 8
Price: £59.95

TURBO TOUCH JOYPAD

This is a radical new style of hand held controller. Just pass your finger over the sensor – No more finger fatigue or blisters. And thanks to better diagonal and circular (360°) control, the newest and most challenging games are easier to control and more fun to play. The Turbo Touch 360 brings a new dimension of control and comfort to video game play.

ONLY £16.99

Product	Price	Order No.
Turbo Touch Joypad	£16.99	9556

VGA MONITOR ADAPTOR

The AMI.VGA Adaptor is a handy little gadget which gives most Amiga owners easy access to the higher resolution display of a VGA monitor.

- It is very easy to use – just plug in and off you go
- Works with any standard VGA or Multisync monitor
- Use screens of up to 640 pixels x 480 lines without interface and without flicker
- Compatible with Amiga 500, 500+, 600, 1200, 1500, 2000
- Operates with Kickstart 1.3, 2.045 and 3.0
- Screen driver software supplied
- Through-port allows the connection of a CGA display
- Full technical support telephone service

ONLY £37.99

Product	Price	Order No.
VGA Monitor Adaptor	£37.99	9558

RE-INK SPRAY

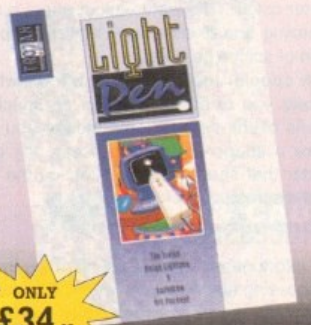
Save money and the environment with Re-Ink Spray and bring back life to your exhausted printer ribbon. Simple and cost effective, it can save you up to 90% on ribbon costs and gives cleaner, blacker print with no blotches and it works for all fabric ribbons. Just open the ribbon case, spray Re-Ink onto the ribbon and hey presto!

ONLY £12.95

Product	Price	Order No.
Re-Ink Spray	£12.95	9998

TROJAN LIGHT PEN

Wouldn't it be good to really "draw" when using paint and graphics packages? Well now you can, by plugging the amazing Light Pen in instead of your cumbersome mouse. It comes with a specially designed drawing package, Kwikdraw, as well as compatibility software for most Workbench-run programs.



ONLY £34.95

Product	Price	Order No.
Trojan Light Pen	£34.95	9870

ALL PRICES INC VAT & UK POSTAGE

AMIGA COMPUTING

READER OFFERS

Order Hotline: 051-357 1275

Fax: 051-357 2813 General Enquiries: 051-357 2961

Order at any time of the day or night. Don't forget to give your name, address and credit card number

VIDI AMIGA 12

The ultimate low-cost colour digitiser for the Amiga! No RGB splitters or optical filters are required, and you can grab full-colour images in less than a second (mono are grabbed in real time). With an abundance of file formats, full multitasking and composite or S-video output, it's versatile and powerful.

ONLY £75.00

Product	Price	Order No.
Vidi Amiga 12	£75.00	9570

VIDI (24) RT

This will push your Amiga to its limits. Real-time image capture in excess of broadcast quality. True colour, photo-realistic picture files grabbed from any video source. Display resolutions up to 1472 x 576. It offers all Amiga users 24-bit image capture, with no restrictions on video equipment or Amiga hardware.

ONLY £249.00

Product	Price	Order No.
Vidi (24) RT	£249.00 (RRP £299)	9565

VIDI (12) RT

This offers all the functionality and specification of Vidi (24) RT, but in 12-bit. Capturing 4096 colour images in real-time from any video source. It comes complete with plug in device with easy to install software. Simple enough for the novice yet powerful enough for the professional.

ONLY £175.00

Product	Price	Order No.
Vidi (12) RT	£175.00 (RRP £199)	9566

CLARITY 16

At last from Microdeal comes the first ever low cost Stereo 16 Bit Sampler for the Amiga. Contains two 16 bit analog to digital/digital to analog convertors to allow stereo sound digitising. The system can record sound from suitable equipment such as CD players, cassette recorder or any 'AUX' or line level signal source via the stereo phone sockets provided. Stereo phono outputs are provided for connection to an amplifier or mixer. The hardware plugs into the serial and printer ports and so can be used with the whole Amiga range of computers. As if this is not enough, Clarity 16 also contains a Midi interface for use with a Midi keyboard or similar, which is compatible with major commercial software.

The Editor program provides the user with the ultimate in power and sophistication, packed with features which appear for the first time for any home computer. The fully multi-tasking, window styled editor allows individual samples to be loaded into the computer and edited separately.

1Mb Ram is recommended.

ONLY £129.95

Product	Price	Order No.
Clarity 16	£129.95	9977

X-COPY PROFESSIONAL

This superb package enables the Amiga user to back up their discs efficiently and effectively.

Features include:
- The most comprehensive back-up utility
- Includes floppy disk back-up, hard disk back-up and file back-up
- Also backs up ST, IBM etc disks
- Checks disks for errors
- Optimises data for faster loading
- Fast formatting
- Copies up to 4 disks in 48 seconds
- Full update service available

Includes NEW 'Cyclone' cartridge for copying protected software (requires a second disk drive

X-COPY PROFESSIONAL caters for all your needs, included in the package is a small hardware interface that plugs into the external disk drive port at rear of the Amiga and your external disk drive (if you have one) plugs into the back of the interface. This allows the Digital Bit Image Copy Mode to use the Adaptive Pulse Width Modulation routines to backup virtually all known discs.

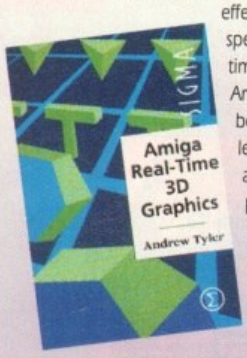
1988 COPYRIGHT ACT Europress Direct neither condones nor authorises the use of this software for the reproduction of copyrighted software. The facilities offered by X-Copy Pro are intended to backup users own software, PD Software & other such programs where permission had been given. It is illegal to make copies of copyrighted material without the permission of the copyright holder.

ONLY £35.95

Product	Price	Order No.
X-Copy Professional	£35.95	9523

REAL-TIME 3D GRAPHICS

Learn how to write programs with smooth flowing 3D effects and produce high speed animation in real time controlled by the Amiga joystick with this book. At the same time, learn about Amiga assembly language painlessly and enjoyably, (listings disk also available to avoid the effort of typing them all out).



ONLY £14.95

Product	Price	Order No.
Real Time 3D Graphics (Book only)	£14.95	9833
Real Time 3D Graphics (Book + Disk)	£23.95	9875

OPTICAL PEN MOUSE

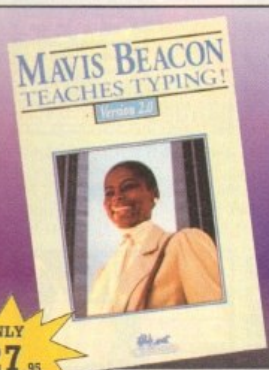
A stylish Pen Mouse with quality construction and smooth fast movement. It has Micro-Switch buttons which is ideal for DTP, artwork etc. It comes with its own Optical Pad

ONLY £34.99

Product	Price	Order No.
Optical Pen Mouse	£34.99	9581

MAVIS BEACON TEACHES TYPING

Simply the finest typing program in the world, this award winning software takes you step by step through the keyboard. Coaching you at your own speed and skill level, monitoring your progress, the stunning graphics, the help facilities and complete typing textbook makes learning to type interesting and fun.



ONLY £27.95

Product	Price	Order No.
Mavis Beacon Teaches Typing	£27.95	9821

VIDEOMASTER

The Ultimate Multi Media System for your computer. Videomaster is a revolutionary breakthrough in home computer technology combining the complexity of a Video Digitiser with a Sound Sampler in a single easy to use low cost unit, to bring you the ultimate home multi media video/audio editing package.

Videomaster will allow you to record monochrome, quarter screen pictures at speeds of up to 25/30 frames per second (Europe/USA) providing ultra smooth playback at high speeds. These pictures can be recorded from the output of a video recorder or directly from a video camera or a camcorder and replayed on your computer screen.

Videomaster can produce great 'grey' scale pictures from any video source with a pause or still frame facility. The colour filters provided in this package will enable the users of video cameras or camcorders to produce high quality still pictures in glorious colour.

Videomaster features a sound sampler as part of the hardware, though the software can be used with external sound samplers. This is supported by a full feature sound recording and editing program within the videomaster software. The Videomaster system also features a video sequencer.

The complete package contains the Videomaster video digitising and sound sampling hardware unit, TRI-Colour filters for colour camera use, comprehensive user guide and full system software.

Videomaster only works with Amiga 500 and 500 Plus models.

ONLY £54.95

Product	Price	Order No.
Videomaster	£54.95	9803

TECHNO SOUND TURBO II

TT2 has been completely redesigned with CUSTOMISED PULL DOWN MENUS and many superb features have been introduced.

These include DIRECT TO HARD DISK RECORDING, so now you can make those really long recordings without running out of memory.

The built in TRACKER program allows you to input sampled notes from the computer keyboard so that you can create your own melodies.

The SEQUENCER allows you to link very long samples together without the need to display the waveforms on the screen, and is ideal for re-mixes and song compilation.

The MINI MODULE enables samples to be played on all 4 audio channels from a MIDI keyboard, Drum Box or External Sequencer. (Midi Interface required).

Samples can now be stored on an edit list which allows rapid access direct from memory. A wide range of CONTROLLABLE effects (including novelties) can be added to the samples including Variable Delay, Variable Echo and Variable Synthesis.

The REALTIME EFFECTS are all controllable and can be saved as presets (up to 999). New features include SWEEP, RAMP and PITCH UP/DOWN.

ONLY £39.95

Product	Price	Order No.
Techno Sound Turbo II & Upgrade	£39.95	9508

AMIGA COMPUTING READER OFFERS

Offers subject to availability.

All prices include UK postage, packing and VAT. For orders over £10 please add £5 for Eire/EEC, £10 for overseas unless specified above. Overseas orders despatched by Airmail.

Valid to April 30, 1994

PRODUCT	ORDER NO.	PRICE
Please add postage as detailed		
	TOTAL	£

☐ Please tick if you do not wish to receive promotional material from other companies.

I wish to pay by:

☐ Cheque/Eurocheque made payable to Europress Direct

☐ Access/Mastercard/Eurocard/Barclaycard/Visa/Connect Expiry Date / /

Name _____ Signed _____

Address _____

_____

_____ Post Code _____

Daytime telephone number in case of queries _____

Send to: Europress Direct, FREEPOST, Ellesmere Port, South Wirral L65 3EB (No stamp needed if posted in UK)

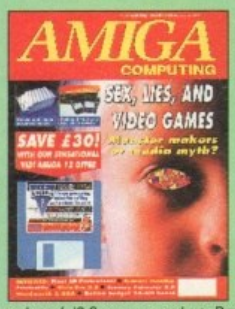
Products are normally despatched within 48 hours of receipt but delivery of certain items could take up to 28 days

AMC 5

AMIGA COMPUTING Back Issues & Binder

If you've missed any of these issues, now's your chance to put things right, by either buying an individual issue or a full six months' worth. But hurry - stocks are limited!

MAY



Are computer games harmful? Scanner round-up. Reviews of Pixel 3D Pro, Retina 24-bit board, Vista Pro 3.0, Scenery Animator 2.0.
FREE: 24 page supplement – Guide To Hardware.
ON DISK: Vidi Amiga 12 (grab diaabled), Funs School 3 Wordsearch module (over 7 year olds).

JUNE

We go behind TV's role playing show - Knightmare. Guide to budget DTP software. Reviews of Big Alternative Scroller 2, ProPage 4, Bars and Pipes Pro 2 and Mavis Beacon Typing 2.
ON DISK: Infofile, Scala HVT (save disabled) VALUED AT £50

AUGUST

The latest three professional video add-ons reviewed - A Video Y/C, IV24 v2.0 and Videopilot 330. Survival guide to printers. Reviews of Ami-Back, Ami Tools and Kid Pix.
ON DISK: CineMorph jr VALUED AT £50

SEPTEMBER

Caligari 24 reviewed. Survival guide to hard drives. Reviews of Phone Pak, VLab Y/C and Alfa Colour Hand Scanner.
ON DISK: Image FX demo

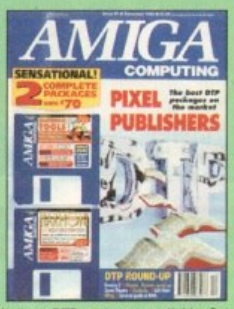
OCTOBER

Amiga CD32 taken apart. Survival guide to modems. Hard drive round-up. Reviews of DSS8+, Technosound Turbo 2, Brilliance, AMOS Pro Compiler and Quarterback Tools Deluxe.
ON 2 DISKS: Caligari, 10 out of 10 Maths demo and F117A Stealth Fighter full mission demo VALUED AT £50

NOVEMBER

Modelling Madness, the ultimate guide to all things three dimensional. Sequencer round-up. Survival guide to scanners. E-mail for the masses. ***FREE*** 16 page CD32 supplement
ON 2 DISKS: AMOS 3D, Batdog, Stickit, ARoach, Virus Checker and Akeko-AGA

DECEMBER



DTP round-up of the best DTP packages available. Survival guide to SIMMs, ZIPs and DRAMs. Reviews of Essence 2, Picasso 2, Hama 292 and MiniGen Pro. ***FREE*** Software encyclopaedia paperback book
ON 2 DISKS: Quarterback Tools, Harmoni Midi Sequencer VALUED at £70

XMAS ISSUE

Money saving guide for new Amiga users, Word Processor round-up, RAM expansion round-up, Survival guide to floppies.
ON 2 DISKS: Take Two animation editor VALUED at £80, Fusion Paint VALUED at £30.

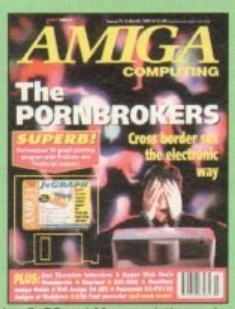
JANUARY

Virtual reality – the new frontiers, Samplers survival guide, Floppy round-up, AC awards, Montage 24, Show report, Database round-up, Paint package round-up. ***FREE 64 PAGE BOOK:*** All about the A1200.
ON 2 DISKS: Design Works VALUED at £50, Vidi Amiga (12) RT Software.

FEBRUARY

Amigas in the movies. Round-up of sound samplers and flight simulators. Reviews of Wavetools, I-Card, Protext v6.0, Star SJ144, TrapFax, Syndesis and Spectrum 28
ON 2 DISKS: The Publisher and MRBackup Professional VALUED at £40.

MARCH



A look behind Babylon 5, PC and Mac emulation and a survival guide to monitors. Reviews of Vidi Amiga 24 RT, Humanoids, BJ600 and A2A.
ON DISK: JcGraph

	Price	Order No.
May 1993 + 3.5" disk	£3.25	9761
June 1993 + 3.5" disk	£3.25	9762
August 1993 + 3.5" disk	£3.25	9764
September 1993 + 3.5" disk	£3.25	9765
October 1993 + 2 x 3.5" disk	£3.25	9766
November 1993 + 2 x 3.5" disk	£3.25	9767
December 1993 + 2 x 3.5" disk	£3.25	9768
Xmas Issue 1993 + 3.5" disk	£3.25	9769
January 1994 + 3.5" disk	£3.25	9770
February 1994 + 3.5" disk	£3.25	9771
March 1994 + 3.5" disk	£3.25	9772
Any 6 issues above	£18.00	
Amiga Computing Binder	£5.95	9509

All prices include VAT.

Please place your orders on the Reader Offers form on page 91

Too little, too late?

ELSPA's new self-regulatory rules could be seen as the games industry growing up – or struggling to avoid legislation. But do they address the real issue of child protection? Adam Phillip investigates

Over the last couple of years, pressure has been mounting for the ever-growing software industry to sort out its act and clean up its image into that of a sector which cares about the effect that its games could have on youth.

ELSPA (the European Leisure Software Publishers Association) who represent the video and computer games industry in Europe, have recently introduced a voluntary code of practice for their members to put a ratings system on the boxes of games denoting to the parents what age group the title is suitable for.

The questions on the industry's lips are how effective will it be, and how useful is it at the end of the day – especially as you don't need to be a member to trade software.

Roger Bennet, general secretary of the ELSPA, is put in the line of fire for the devil's advocate. Here is his interview:

Q For our readers, could you tell us about the recent regulations introduced?

A We developed the proposal of establishing a voluntary age rating system to be incorporated on all [games] packaging. It has been discussed at great length over a long period of time and as you know, was introduced on February 9.

The reason for this age rating system is from research that's been conducted at consumer level – parents of younger children in particular are very badly informed about computer and video games.

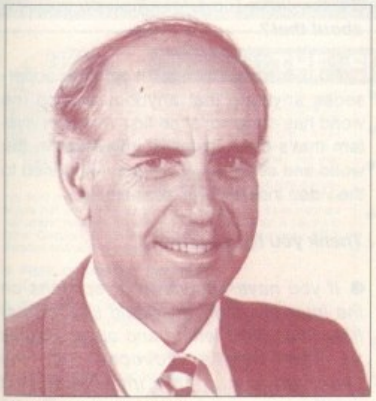
The object of the system is to provide the opportunity of being better informed of the contents of games and to make clear which titles are suitable for certain ages.

In addition to which of course, it's important that when people are buying original software that it is seen to be logoed and identifiable in the sense that it comes from a legitimate and reasonable supplier.

Therefore, too, parents should understand what they're buying is legitimate and is produced by a responsible publisher.

Q Do your members have to abide by the new ratings or will they be struck off the list of ELSPA?

A Clearly, it is recommendation by ELSPA and we're confident that all members of the association will adopt it in due course, if not already – a vast majority are immediately adopting the system.



Roger Bennet of ELSPA

Q But if they don't abide, what happens?

A That would be a decision that would be need to be taken in the fullness of time, determined by the circumstances at any one stage – if anyone abuses the system of course, then that's a different matter altogether.

Q Do you feel that the ratings system will make any real difference in consumer choice? Do you think parents will take notice?

A Well, it's up to them really. Obviously, it's equally up to us to ensure that they are properly informed of how it works and there will be by a campaign at retail level.

It is a voluntary circumstance and retailers may wish to adopt it but they're under no obligation not to sell any games if they're not suitable for children according to the rating system because it is not a mandatory system.

There has been pressure put on us by retailers to provide some form of guideline and therefore if retailers find that some product doesn't have a rating, it's up to them to decide whether they wish to stock it or not.

> Digitised images are unreal and I think that there is an awful lot of patronisation of the youth of today to assume that they can't tell the difference between fantasy and reality

Q What about the young buyers whose parents don't take an interest in what their children buy? Is there anything you can do to look out for them?

A We are providing purely a guideline for parents, not necessarily for kids. If young children want to go in and buy a game which is not suitable according to the age rating system, it is entirely up to the retailer whether they wish to sell it or not.

Q Don't you feel that highly-rated games will receive more attention, therefore help with marketing and increase sales?

A Well, the same principle applies to video or films doesn't it, really...

Q Video and film traders are legally obligated to not providing certified material to an age group below the ratings – ELSPA members have no legislation at all to adhere to...

A Since we had pressure put on us by retail, retailers will adopt a system whereby if it's not suitable, they may not sell it to the child. I mean if a child wants to get hold of it, he'll send somebody else older in to get it for him.

That same premise applies even under the lawful restrictions, so the rating system is a means by which people can identify products to be suitable for age groups.

This'll provide software of a responsible nature from the publishers and it's also a means of establishing a self-regulatory system which ideally will not require government intervention.

You must understand that the perception of this industry is fairly important and it's equally important that magazine publishers maintain a responsible attitude in the way they present products to the consumer.

The magazine publishing industry is very much a shop window and therefore, it is important... I'm not suggesting your magazine in any way... but there are magazines that have been seen to be undermining what we are trying establish, which is a responsible attitude.

Q Is the ratings system simply a way to appease the government and other censoring bodies from clamping down on ➤

the industry? Does your scheme offer real protection taking into account to the lack of legal legislation?

A The fact is that the law already exists to ensure that games that need classifying are classified...

That law though doesn't apply to cartridges...

A But that, I'm afraid, is going to happen... well, I'm not afraid, I'm rather glad it's going to happen. Under the current legislation going through Parliament, the Criminal Justice Act is being amended meaning cartridges will be included.

Do you feel that games such as Mortal Kombat are healthy titles for the young player?

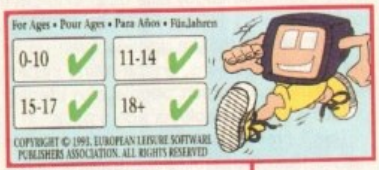
A Well, the initial Mortal Kombat was introduced by Acclaim, was seen by the Trading Standards Authorities, the British Board of Film Classification and the Video Standards Council and was defined as being not required to be classified. Not just under the law but in real terms, because it is a fighting game, but it is a digitised program.

The images are unreal and I think that there is an awful lot of patronisation of the youth of today to assume that they can't tell the difference between fantasy and reality.

My 14-year-old son plays computer games and I monitor what he plays.

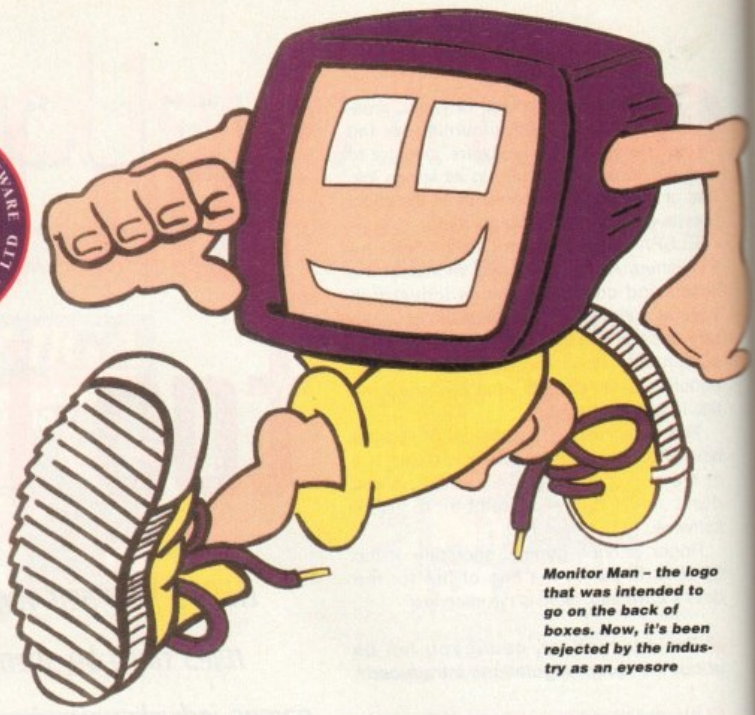
What about the parents who don't monitor what their children play?

A Well, that's the object of what we are trying to achieve, which is to inform parents, or specifically those who are concerned about it but are not sufficiently *au fait* with the systems, to make them feel more comfortable about it...



That ratings box in full – like the Monitor Man, it has already undergone changes since its launch

The European Leisure Software Publishers' Association – the trade organisation behind the ratings system



Monitor Man – the logo that was intended to go on the back of boxes. Now, it's been rejected by the industry as an eyesore

The fact is that the law already exists to ensure games that need classifying are classified

Do you feel that as games become more realistic and interactive, they should become properly certified like videos and films?

A Well, they will be.

A good thing?

A The arguments can rage in the same way as the arguments were made about the voluntary rating systems that it will encourage children to go for the higher-aged games. The same principle applies if you certify games formally in the way the BBFC classify video and film.

As more and more games require classification because of the real images shown in them, we have to work out a system with the BBFC to ensure that those games can and will be submitted in the same way that they are now on a voluntary basis.

We have to make sure that the BBFC can view the games in such a way that it is administratively practical and feasible.

I mean it is very, very difficult for software publishers to submit game details other than on video, in order for the classification to be given. We have to work out the ways in which a process can be established – we'll be doing that next week.

More games will be classified as time goes on inevitably, but of course the vast majority of games will not required to be classified formally.

In those circumstances, we believe that we have support from retail and from Parliamentary interests and from others within the industry as well as the Video Standards Council.

People will have the opportunity of getting some idea of how suitable the graphic content of a game is in age terms.

A voluntary guideline can do nothing but good in that respect and inevitably in a journalistic press and from the media's point of view, you're damned if do and damned if you don't. We feel that it is important, that it is not hype for the industry.

The rating system is simply a means of establishing the industry as responsible – it addresses its products to the consumer in a responsible way and the people who buy the product with the logo and the age rating system on it can be sure that it is acceptable in every possible way.

Some people in the industry feel that it's too little, too late – how do you feel about that?

A No, I don't agree at all. It certainly supersedes anything that anybody else in the world has done – it's the first voluntary system that's been installed anywhere in the world and secondly, look what happened to the video industry who did nothing.

Thank you for your time.

● *If you have any views or opinions on the interview then we would like to hear from you. Send letters and other oddities to The Devil's Advocate at the usual address... more interviews next month.* ■

Stop press

● Since this interview, there has been a considerable amount of dissent among software and hardware manufacturers concerning the scheme. Neither Nintendo nor Acclaim, both ELSPA members, are intending to follow the new system.

Nintendo UK said: "We have to take a global view. We can't be parochial, unless legislation absolutely forces us to."

While not denouncing ELSPA in anyway for their motivation to get something done, Nintendo are more interested in the battle in the States to establish a world-wide system. Acclaim are similarly looking to North America for a global solution and standard.

Many other companies have complained about the Monitor Man logo which has now been dropped. Electronic Arts are using the new system but, according to Computer Trade Weekly, "are not happy to", and Ocean are hoping that "something better will come along" but have agreed to use the system .

Despite these setbacks, ELSPA is adamant about their plans and believe that goverment interaction is closer than people may think

AMITEK
FRIENDLY TECHNOLOGY

Designed to bring you high quality and performance at affordable prices, AmiTek peripherals offer outstanding value-for-money. They are built to ensure easy fitting, and trouble free operation - making them a pleasure to use. AmiTek products are also thoroughly tested and very reliable, so reliable that we are pleased to offer a full two year warranty on the AmiTek products detailed here.

AMITEK - 'FRIENDLY TECHNOLOGY'

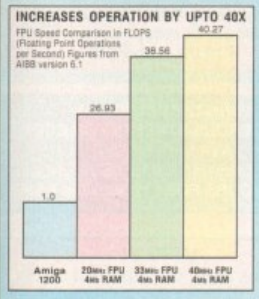
AMIGA PERIPHERALS

FOR ALL AMIGA SYSTEMS

HAWK RAM UPGRADE & MATHS ACCELERATOR

FOR THE AMIGA 1200

Maximise the processing power of your standard A1200. Be ready for the new generation of software which makes more demands on Amiga memory and technology. The AmiTek Hawk RAM expansion includes up to 8Mb fast 32-bit RAM, the ability to support a sophisticated 68882 FPU (Floating Point Unit - drastically increases the speed of maths intensive operations) and a battery backed up clock. Built to a high standard, this board can be easily installed and comes with a 2 year warranty. The Hawk RAM board is available in 9 pre-configured versions enabling you to select the model which best suits your requirements.



- 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
- Two types of optional Floating Point Unit - 33MHz or 40MHz PLCC 68882 co-processor
- Comprehensive easy to follow manual with illustrations
- Works with all A1200 and A1200HD computers
- Does not invalidate your A1200 warranty
- 2 year warranty

	NO FPU	33MHz FPU	40MHz FPU
1Mb RAM	£99	£159	-
2Mb RAM	£139	£199	-
4Mb RAM	£199	£259	£299
8Mb RAM	£399	-	£499

PRICES FROM ONLY

1Mb RAM, NO FPU

£99

INC VAT - RAM 1210

1Mb SONY 3½" DELUXE FLOPPY DRIVE

FOR ALL AMIGA COMPUTERS

'Amitek's new disk drive combines an elegant design, high build quality and smooth performance in a very affordable package. Highly recommended'. Jason Holborn - Leading Amiga Journalist

DELUXE FEATURES

The AmiTek drive has been specially designed to meet the needs of Amiga users and has many deluxe features which are not included in other drives - check out the competition!

ANTI-CLICK

The anti-click feature stops your drive from making lengthy whirs and clicks that occur when the drive is empty and searching for a disk.

ANTI-VIRUS

The switchable Anti-Virus mode stops track 0 viruses infecting the disk while in the drive. Yet, unlike many other drives which have virus killers, this Anti-Virus mode can be disabled, allowing some fussy copy protected software to run.

ADD ADDITIONAL DRIVES

As a double sided mechanism, the AmiTek drive gives 880K of disk space after formatting. It is also daisy-chainable, which means that you may add further drives to your system and, uses very little power from your Amiga.

- HIGH QUALITY 3½" SONY MECHANISM
- STRONG METAL CASING
- BUILT-IN ANTI-CLICK FEATURE
- SWITCHABLE ANTI-VIRUS MODE
- ENABLE/DISABLE SWITCH

HIGH QUALITY SONY MECHANISM

AmiTek took the time to source a mechanism that has all the features, quality and reliability that Amiga owners have been crying out for. After vigorously testing Sony's mechanism, it proved to be the best by far available.

- 75MS ACCESS TIME
- DAISY CHAINABLE VIA THRU PORT
- LOW POWER USAGE
- NO NEED FOR EXTERNAL PSU
- 2 YEAR WARRANTY

Details taken from models available MARCH '94

	ANTI-CLICK	ANTI-VIRUS	STRONG METAL CASE	QUALITY SONY MECHANISM	ISOLATION SWITCH	2 YEAR WARRANTY
AMITEK	✓	✓	✓	✓	✓	✓
CUMANA	-	-	-	-	✓	-
POWER E	-	-	✓	✓	✓	-
ZAPPO	-	-	✓	-	✓	-

EXTERNAL DRIVE

£59

INC VAT - DRI 1159

1Mb INTERNAL FLOPPY DRIVE

AMITEK FOR AMIGA 500/500PLUS

The internal AmiTek replacement drive is 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. All you need to fit the drive is included, plus easy to follow fitting instructions and 24 months replacement guarantee.

2 YEAR WARRANTY

INTERNAL DRIVE

£44

INC VAT - DRI 3600

PCMCIA CARDS

FOR AMIGA 600/1200

2 YEAR WARRANTY

For sheer ease of use and flexibility you can't beat AmiTek's PCMCIA RAM upgrades. These compact credit card sized upgrades slot into the PCMCIA port on your A600 or A1200, increasing the RAM by 2Mb or 4Mb.

2Mb CARD	4Mb CARD
£119	£179
INC VAT - RAM 6020	INC VAT - RAM 6040

MODULATOR

FOR ALL AMIGAS

The AmiTek 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.

- User friendly manual included
- High quality design
- FREE RF cable supplied

MODULATOR

£34

INC VAT - MOA 4200

RAM UPGRADES

FOR AMIGA 500/600

Many business packages and advanced games require more than your Amiga's standard memory capacity to run at their full potential. The AmiTek range of RAM upgrades is the perfect way to add that extra memory capacity to your system. The following RAM upgrades are all trapdoor cards and fitting will not affect your Amiga's warranty.

2 YEAR WARRANTY

A500 - Low cost 512K upgrades, with or without a battery backed clock.

512K - NO CLOCK	512K - WITH CLOCK
£20	£25
INC VAT - RAM 0505	INC VAT - RAM 2510

A500PLUS - The A500PLUS has a battery backed clock built-in, so these 1Mb RAM upgrades do not require this.

1Mb UPGRADE **£30** INC VAT - RAM 3520

A600 - Low cost 1Mb RAM upgrades, with or without a battery backed clock.

1Mb - NO CLOCK	1Mb - WITH CLOCK
£30	£40
INC VAT - RAM 0608	INC VAT - RAM 2610

THE SILICA SERVICE

SILICA 1978 15 YEARS 1993 SERVICE TO YOU

Before you decide when to buy your new Amiga products, we suggest you think very carefully about WHERE you buy them. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals or software, or help and advice. And, will the company you buy from contact you with details of new products? At Silica, we ensure that you will have nothing to worry about. We can meet our customers' requirements with an understanding which is second to none. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Service".

- **FREE OVERNIGHT DELIVERY:** On all hardware orders shipped in the UK mainland.
- **TECHNICAL SUPPORT HELPLINE:** A team of technical experts will be at your service.
- **PRICE MATCH:** We match competitors on a "Same product - Same price" basis.
- **ESTABLISHED 15 YEARS:** We have a proven track record in professional computer sales.
- **PART OF A £50M A YEAR COMPANY:** With over 200 staff - We are solid, reliable and profitable.
- **CORPORATE & EDUCATION DIVISION:** Volume discounts are available. Tel: 081-308 0888.

- **SHOWROOMS:** We have demonstration and training facilities at all our stores.
- **THE FULL STOCK RANGE:** All of your requirements are available from one supplier.
- **FREE CATALOGUES:** Will be mailed to you, with special offers and full details of hardware, peripherals and software.
- **PAYMENT:** We accept most major credit cards, cash, cheque or monthly terms (APR 29.8% - written quotes on request).

SILICA

HOT LINE 081-309 1111

MAIL ORDER: 1-4 The Mews, Hatherley Road, Sidcup, Kent, DA14 4DX **Tel: 081-309 1111**

CHELMSFORD SHOP:	Debenhams (2nd Floor), 27 High St, Chelmsford, Essex, CM1 1DA	Tel: 0245 490654
CROYDON SHOP:	Debenhams (2nd Floor), 11-31 North End, Croydon, Surrey, CR9 1RQ	Tel: 081-688 4455
GLASGOW SHOP:	Debenhams (5th Floor), 97 Argyle St, Glasgow, Strathclyde, G2 8AR	Tel: 041-248 3896
IPSWICH SHOP:	Debenhams (2nd Floor), Waterloo House, Westgate St, Ipswich, IP1 3EH	Tel: 0473 287092
LONDON SHOPS:	52 Tottenham Court Road, London, W1P 0BA	Tel: 071-580 4000
	Selfridges (Basement Arena), Oxford Street, London, W1A 1AB	Tel: 071-629 1234
MANCHESTER SHOP:	Debenhams (3rd Floor), Market St, Manchester, Lancashire, M60 1TA	Tel: 061-839 3654
SIDCUP SHOP:	1-4 The Mews, Hatherley Road, Sidcup, Kent, DA14 4DX	Tel: 081-302 8811
SOUTHEND SHOP:	Keddies (2nd Floor), High Street, Southend-on-Sea, Essex, SS1 1LA	Tel: 0702 468039

To: Silica, AMCOM-0594-125, 1-4 The Mews, Hatherley Road, Sidcup, Kent, DA14 4DX

PLEASE SEND A 64 PAGE AMIGA COLOUR CATALOGUE

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

Company Name (if applicable): .....

Address: .....

..... Postcode: .....

Tel. (Home): ..... Tel. (Work): .....

Which computer(s), if any, do you own? 125H

E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.

FOR THE BEST IN PUBLIC DOMAIN & CD ENTERTAINMENT, NO-ONE ELSE COMES CLOSE!

THAT BIT BETTER THAN THE REST

17 BIT SOFTWARE Est. 1988

48,500 MEMBERS!!

DEMO CD 2
Another stunning compilation of new PD products. This one is even better than the first! Over 600MB of Data! Get it now for £19.99 +75p P&P

THE 17 BIT COLLECTION
This double CD collection contains 1700 disks from our own library from disk 0001 to 2301. All the classics are included, as well as hundreds of great PD games, Demos, Music etc. Yours for Only £39.99 + £1.00 P&P

NEW!! 17 BIT II - THE CONTINUATION
Includes 17 Bit Disks From 2302 To 2800, Assassins Games Disks from 1 To 140 (Over 500 Games!!)NZ Disks, T Bag Disks, ARUG & AMIGAN! Also Includes A FULL File Search & Index Across Our Previous CD's Too! UNBEATABLE VALUE £19.99 +75p P&P

CDPD VOLUME 3
Fish from F761 to F890, ready to run from the CD! Also includes dozens of high quality 24 bit scans plus Ham and AGA HB versions & MUCH MORE! for only £19.99 +75p P&P

CDPD VOLUME 2
The continuation of the Fred Fish range plus the entire SCOPE & JAM ranges of disks £19.99 +75p P&P

NEW IN! MULTIMEDIA TOOLKIT!
This CD contains all you need for your own Multimedia Productions!
Thousands of clipart images in colour and B&W, even scaleable art!
Hundreds of Adobe, Postscript & CG Fonts are also included, not to mention the 750 Modules & 2300 SFX!
only £19..99 +75p P&P

GREAT PD GAMES!

+2989 WAYNES WORLD PONG
Complete With SHHWING!
+2981 YATCY
Excellent version!
+2985 THE ULTIMATE QUIZ *1
Quiz on General Knowledge
X2969 MEGABALL AGA
Great new 256 Colour version
+2963 BRAIN DAMAGE
You don't need it to Play it!
+2961 (AB) JIGSAW
5 level Playable Demo
+2953 MATRIX BLASTER
Converging lines Blast Em Thing
+2952 XMAS TIME
Help Santa Kick Ass.
+2949 ICE RUNNER
Platform Action (Not A1200)
+2947 DITHELL IN SPACE
Great Playable Demo.
+2946 SOCCER CARDS
U.S. '94 Edition. Card Luck Game.
+2945 DEPTHCHARGE
Destroy the Subs.
+2944 CARD GAMES COMP
Classic Cardgames! Shareware.
+2924 CARDS & MANCALA
5 Great Card Games! S/Ware
+2870 SPECTRUM GAMES *8
+2869 SPECTRUM GAMES *7
+2868 SPECTRUM GAMES *6
+2867 SPECTRUM GAMES *5
+2866 SPECTRUM GAMES *4
+2865 SPECTRUM GAMES *3
+2864 SPECTRUM GAMES *2
All the above contain over a dozen game "Snapshots" to use with V1.6 or V1.7 Emulator.
+2850 GORF
That old Arcade Classic!
+2849 GAMES GALORE 10
Games Comp now A1200 OK.

AMIGA ANIMATIONS

+2983 (ABC)CHARLEY CAT
"In Sickness & in Health" 3MB
+2982 (ABC) CHARLEY CAT
"XMAS " 2 MB
+2970 (ABCD) CHARLEY CAT
"Dandruff Duo" 3.5" MB
+2974 (ABC) G.I. SPY
Great 3 Megabyte Animation
+2940 MR HORNY ANIMATION
Great Adult (ish) Animation!!
+2927 (ABCD) CHARLEY CAT 4
"Moustermind" 3.5 MB
+2925 (ABC) CHARLEY CAT 3
"How to catch A Canary" 3MB
+2923 (AB)CHARLEY CAT 6
"Charlies At The Flix!" *
+2922 (AB) CHARLEY CAT 2
"Down At The Sea!"
+2872 (ABCD) MEAN MACHINE
Great AD for Commodore CD32 By Craig Collins! 3.5MB Needed!
+2871 (AB) DANGEROUS CLUB
Dangerous sports club Anim.

UTILITY DISKS

+2988 C.A.G. 3.1
"Create Adventure Games Util"
+2986 NO SAMPLER? UTILS *3
3rd in the Series of Sound Utils.
+2980 FONT FARM *5
+2979 FONT FARM *4
Mega popular Font Collections
+2978 ASI VIDEO TITLERS
Collection of Handy Video Tools.
X2971 RELOKICK V1.4
Adds even more compatibility.
+2962 FORECASTER V2.02A
Another Upgrade for Pools!
+2951 PROCAD V1.0
Electronic PCB Designer.
+2942 BBC EMULATOR
(Requires A Serial Cable)
+2928 THE DESIGNER V2.2
Util for Games Programmers.
+2921 PARBENCH
Set Up Parnet On Your Machine
+2914 MINIMORPH V1.0
Great PD Morphing Package
+2912 RADBENCH V1.7
Recoverable RAM Workbench
+2911 PAY ADVICE ANALYSER
Calculates Deductions Etc
+2910 SOLDERING DISK
For use with DPAINT, includes Circuit Board Layouts Etc
+2908 PROPAGE TEMPLATES
Various Pre-Defined Templates
+2907 PROPAGE HELP DISK
For usewith V.21 of ProPage.
+2892 MAGNUM 1.8
Updated To Create Better Mags!
+2890 ANIM HELPER
Clip Art To Use in DPaint to Create Anims
+2888 ADDRESSPRINT V4.0
An Address Printer S/Ware
+2887 ONFORM V1.1
Create Invoice /Orders etc S/W
+2884 VIDEO WORKSHOP
Various DTV Utils
+2878 WEDDING S DTV
Nice Anims for use with DTV
+2877 WEDDINGS DTV II
Brushes, Pictures & Anims
X2875 CDTV > CD32 ADAPTOR
Use a CDTV keyboard on CD32
+2855 GARDEN DESIGNER
Design a garden in 3D!
+2873 ASTRONOMY V2.1
Get your Telescopes out!
+2861 AUDIO MAGIC IV
Loads of Audio Utils!
+2860 AUDIO MAGIC III

ODD BITSES!

Even more utils & players etc..
+2987 MAG. E ISSUE *1
SciFi & Fantasy Disk Mag.
+2976 (AB) HOLODECK 2
Superb Rendered Startrek Pics!
+2972 (AB) T. IRRELEVANCE 4
Med Users Group Mag Iss.4
+2954 WAYS TO DIE SLIDES.
All very unpleasant!

DEMO DISKS

+2973 NEURAL ASSAULT
Excellent Dance Demo By Rage
+2968 ARTE DEMO BY SANITY
Very nice, Alternative Demo
+2965 NEOPLASIA - PHOBIA
Great Music Disk, Not Usual Stuff
+2960 ZONE WARRIOR
Another nice Music Presentation.
+2950 RINK A DINK (NOT AGA)
Superb New Melon Demo!
+2948 DREAM TRIPPIN
Digitals latest Demo Production
+2941 SUBTLE SHADES
Great Demo By Nuance.
+2919 (AB) SPACE BALLS!
9 Fingers Demo, if you liked state of the Art, You'll die !!
SERIOUSLY GOOD!
+2915 A TASTE OF U41A
Old, But popular U4ia Toons
+2913TYMPANIC MEMBRANE
Great new Demo by PANACEA
+2879 HELIOPOLIS DEMO
Another Stunning Demo!!
+2880 HYPNOSIS DEMO
Presented by Perspex. Great!
+2885 GROOVY BY LEMON
Another Excellent Production
+2876 (ABC) GRAPEVINE 18
Broadminded only need apply!
+2874 DR WHO THEMES
Variations on disk II"
+2835 HANDEL - ROB BAXTER
Music for the Royal Fireworks
+2834 FOP - SIMPLY BLUE
Friends of Paula Music disk.
+2832 MUSIC EXAMPLES 2
Nice Mods from various games.
+2831 MUSIC EXAMPLES 1
Nice Mods from various games.
+2812 (AB) DR WHO THE 60's
Information & GFX about the DR

EDUCATIONAL

+2984 A-Z PAINT
Great Paint Prog for young kids
+2967 SMARTY PAINTS
Serious Art for Kids, Preview Ver.
+2966 KIDS DISK 3
Shareware DTP for Kids.
+2926 (AB) TOME OF MYTHS
Read all about those Myths
+2920 ASI BACK TO SCHOOL 3
Even more Educational Progs!
X2916 (AB) TUTANKHAMUM
Educational Slideshow for AGA.
+2909 FRENCH VERB TESTER
Err, Test French Verbs!
+2886 AZ SPELL V2.02
Wot Du Ya Meen Ye can Spel
+2851 DTP FOR KIDS
Nice easy DTP to interest Kids.
+2802 PHOTOGRAPHY
All about The Dark Room.
+2796 JUNIOR MATHS
Great Maths Tutor for kids.
+2795 (AB) READ & LEARN
The 3 Little Pigs With pictures. Text & Narration.

AGA DEMOS

X2934 VOLCANO AGA
Colours Bobs sounds, its all here!
X2933 (AB) COMPLEX "ORIGIN"
One of the best AGA Demos Yet!
X2932 SMELLS LIKE CHANEL 5.
Excellent Production from ARISE
X2930 XANADU - EXPLICIT II
Another worthy AGA Presentation.
X2929 ABSTRAX PIG BY VIVID
Weird Name, Nice Demo
X2918 EMPTY HEAD AGA
Good AGA based Demo.
X2891 TROJAN AGA
Techno Trax II
X2826 PANTAHERI DEMO
Great AGA Demo
X2798 MIND WARP
Planet Groove II - Team Hoi
X2761 CHROMAGIC AGA
Another AGA Demo Dose.
X2759 POINT OF SALE
European AGA Demo.
X2672 RETINA EURO 1 DEMO
Another nice AGA only Production

AGA SLIDESHOWS

X2977 M.C ESCHER SLIDES
S.Show of Mind Bending Images!
X2959 JPM'S AGA PICS *5
X2958 JPM'S AGA PICS *4
X2957 JPM'S AGA PICS *3
X2956 JPM'S AGA PICS *2
X2955 JPM'S AGA PICS *1
Most of the images on the above disks are of the Fantasy Art Genre, all in 256 colour, they look superb on AGA Machines!
X2931 (AB) SCAN IS LAME
Superb AGA Hand drawn Pics!!
X2896 ERIKA (AGA)
Erika Eleniak in 256 colours!
X2863 (AB) BODYSHOP V
More lovelies in 256 colours!
X2862 (AB) FIT CHIX III
Yet more pouting girlies
X2859 BODYSHOP III
You guessed!
X2856 (AB) FIT CHIX II
More super nice Models!
X2825 (AB) BODYSHOP *4
OOooerr Missus! Nudge Nudge
X2776 (ABCD) AKIRA PICS
Loads of The cute Jap Chicks

MISC AGA DISKS

X2975 CHANNEL Z ISSUE 3
AGA Owners Disk Mag!
X2964 MAD FIGHTERS
Excellent Beat Em Up Like B.Blow
X2943 A1200 UTILIES
Includes IntelOut, NewMenu II +...
X2939 AGA UTILS *3
X2938 AGA UTILS *2
X2937 AGA UTILS *1
Popular AGA Utils Compilations
X2936 CHANNEL Z ISSUE 2
X2935 CHANNEL Z ISSUE 1

DEMO CD
Over 650 MEG of demos, cliparts, music, slideshows, games and utilities not to mention over 1000 modules! £19.99 +75p P&P

THE AMINET CD FROM THE U.S.A.
Contains more games than your local Arcade Along With Thousands of Utils, Mods, Demos, Pictures ETC! £19.99 +75p P&P

WING COMMANDER & DANGEROUS STREETS FOR CD32
AVAILABLE NOW!
Both Titles on 1 CD for CD32 ONLY
GET YOURS FOR £17.99! +75p P&P

AMFM 17
One Disk Mag That Amiga Fans should NOT Be Without! £2.50 Per issue

NEW!! - SPACE & ASTRONOMY CD
Includes Thousands of Superb GIF Images & Astronomy Texts From the NASA Archives Since 1962! Only £19.99 + 75p P&P

FINAL FRONTIER 6]
**** Calling all Star Trek Fans****
T.F.F. is a dedicated Trek mag on 5 packed disks. Includes exclusive artwork by none other than Tobias Richter! £7.50

NOTHING BUT AMOS - DISKMAGAZINE
A New Magazine Aimed at Amos Users, to help you get the most from the package. Issues 1 to 4 Now available at £2.50 Each N.B. Amos is for Beginners and Experts alike!

DON'T FORGET!!
We also stock most new releases on the Amiga, All of which are heavily discounted Call us for information of latest releases. We also stock Amiga Accessories such as 50 or 100 Capacity Disk Boxes, Plain or Psychadelic Mouse mats, Clear or Coloured Dust Covers and replacement Microswitched Mice all at VERY competitive prices!

LSD LEGAL TOOLS COLLECTION
We now stock LSD disks upto number 140. These are an invaluable source for uncommon utilities. See below for disk price

ORDERING

BY PHONE
(0924) 366982
Access/Visa/ Switch
We Now Accept
AM- EXPRESS

BY FAX
(0924) 200943
Please Leave your Order & Credit Card details

BY POST
Please send Cheques/PO's To:-
17 BIT SOFTWARE
1ST FLOOR OFFICES, 2/8 MARKET STREET
WAKEFIELD
WEST YORKSHIRE WF1 1DH

DISK PRICES
1-10 Disks £1.50 Each
11-20 Disks £1.25 Each
21 Disks or more £1.00 Each!
1 FREE WITH EVERY 10 YOU BUY!
P&P IS 50P PER ORDER

CLR LICENCEWARE

CLR PRICES
THE NUMBER IN BRACKETS AFTER A TITLE DENOTES HOW MANY DISK ARE IN EACH SET

1 DISK SET	£3.50
(2) DISK SET	£4.50
(3) DISK SET	£5.50

17 BIT SOFTWARE Est. 1988

(0924) 366982

THAT BIT BETTER THAN THE REST

EDUCATIONAL-WARE

CLE01 (2) DINOSAURS
CLE02 GEOLOGY
CLE03 (3) SOLAR SYSTEM
CLE04 COLOUR PAD
CLE05 A-CHORD V5.1
CLE06 T.A.M.I.
CLE07 (2) FISHING
CLE08 NIGHT SKY
CLE09 WORDS & LADDERS
CLE10 (3) BASICALLY AMIGA
CLE11 LET'S LEARN
CLE12 ALPHABET TEACH
CLE13 HOME-BREW
CLE14 (3) ECOLOGY
CLE15 FASTFRET V2.0
CLE16 (2) HISTORY
CLE17 THINGAMAJIG
CLE18 WORK & PLAY
CLE19 PLAY ITSAFE
CLE20 BIG TOP FUN
CLE21 JIGMANIA
CLE22 CHESS TEACHER
CLE23 MIND YOUR LANG.
CLE24 (3) SPEED READING
CLE25 CHORD COACHING V3.1
CLE26 SNAP
CLE27 (3) C.A.T.T.
CLE28 FUN WITH CUBBY
CLE29 PREHISTORIC PACK
CLE30 PEG A PICTURE
CLE31 (2) UNDERSTANDING AMOS
CLE32 (2) SPITFIRE
CLE33 (2) MESSERSCHMITTV2
CLE34 (2) YOUR FIRST PONY
CLE35 (2) SOLAR SYSTEM 2
CLE36 (2) THE TIME MACHINE
CLE37 DISCOVERY OF U.S.A.
CLE38 (2) HOME INVENTIONS
CLE39 (2) MY LITTLE ARTIST
CLE40 BOREALIS JUNIOR
CLE41 (2) BASICALLY MEDICINE
CLE42 COMPOSITION
CLE43 AMOS LANG QUIZ
CLE44 PORTRAITURE
CLE45 FUN WITH CUBBY 2
CLE46 BASIC ANATOMY
CLE47 SEA SENSE
CLE48 ROCKET MATHS
CLE49 (3) DINOSAURS 2
CLE50 (2) D.R.A.T. V2.4
CLE51 PAINT, PASTE & DRAW
CLE52 TELL THE TIME
CLE53 LETS LEARN 2
CLE54 (2) TITANIC

GAME-WARE

CLG01 NORRIS
CLG02 DARK THINGS
CLG03 PHASE 2
CLG04 X-SYSTEM
CLG05 (2) TRUCKIN' ON
CLG06 OBLITERATION Withdrawn
CLG07 WILLS WATER WORKS withdrawn
CLG08 DRAGON TILES
CLG08 DRAGON TILES AGA
CLG09 MOTOR DUAL
CLG10 FUTURE SHOCK
CLG11 ALL GUNS BLAZING
CLG12 BULLDOZER BOB

GAME-WARE CONT.....

CLG13 PARADOX
CLG14 SONIC SMARTHEAD
CLG15 SPLODGE
CLG16 CRYSTAL MAZE
CLG17 IMBRIUM
CLG18 SKAN 29
CLG19 (3) STELLAR ESCAPE
CLG20 JUNGLE BUNGLE
CLG21 FLOWER POWER
CLG22 STOCKING FILLERS
CLG23 MARVIN MARTIAN
CLG24 EASY MONEY
CLG25 WHITE RABBITS
CLG26 MONSTER ISLAND
CLG27 SHYMER
CLG28 TIME RIFT
CLG29 BILLY BALL
CLG30 CAPTAIN K
CLG31 DIRTY RACKETS 1.5M
CLG32 7 BLOCKS
CLG34 BATOROONS
CLG35 CYBERNET
CLG36 OGI
CLG37 RAW
CLG38 QUINGO
CLG39 CYBALL 5
CLG40 TRAX
CLG41 F1 RACER
CLG42 CRYSTAL RACER
CLG43 (2) PIC-IT
CLG44 VIKING SAGA
CLG45 KNIGHT FIGHT
CLG46 ARCHIPELAGO CPGN

UTILITY-WARE

CLU 01 VIDEO TITLER
CLU 02 FISH INDEXER
CLU 03 TYPING TUTOR
CLU 04 ALPHAGRAPH V1.10
CLU 05 S.A.S. MENU MAKER
CLU 07 PHILO V1.12
CLU 08 (2) WORD FINDER PLUS Withdrawn
CLU 09 (2) PLAY AND RAVE
CLU 10 POWER ACCOUNTS V1.10
CLU 11 CALC V1.3
CLU 12 VIRTUAL WINDOWS
CLU 13 DATOS
CLU 14 STOCK CONTROLLER
CLU 15 EPOCH PROFESSIONAL
CLU 16 X-STITCH MASTER LITE
CLU 17 LC10/LC20 FONTS
CLU 18 LC200 FONTS
CLU 19 24 PIN FONTS
CLU 20 BJ10 FONTS V2.2
CLU 21 INVOICE MASTER
CLU 22 HARD DRIVE MENU
CLU 23 F15 ANIM BRUSHES
CLU 24 RED LOTUS ANIM BRUSH
CLU 25 (2) STAR FIGHTER BRUSHES
CLU 26 (2) STAR VOYAGER BRUSHES
CLU 27 IMAGEBASE
CLU 28 ADVENTURE TOOLKIT 4.1
CLU 29 G.F.X.
CLU 30 DRAW SELECTOR
CLU 31 FLOW CHARTER
CLU 32 POWER TEXT 2
CLU 33 AM TUITION
CLU 34 IMAGE DOCTOR V1.10
CLU 35 CRITERION

OVERSEAS READERS! WHY NOT SAVE DELIVERY TIME & COSTS AND ORDER FROM AN OFFICIAL 17 BIT DISTRIBUTOR! WE HAVE DEALERS IN EUROPE , JAPAN, SCANDINAVIA, AUSTRALIA & THE U.S WHO WOULD LOVE TO HEAR FROM YOU! SEE ADVERTS ON THIS PAGE

SPECTRUM GAMES PACK
OVER 100 CLASSIC SPECTRUM GAMES FOR USE WITH "V1.7 OR "V1.8 OF THE SPECTRUM EMULATOR. 7 BURSTING DISKS FOR ONLY £10.00 INCLUDING P&P. * THE EMULATORS ARE AVAILABLE SEPARATELY

IMAGINE 3D PACK
DISKS FULL OF IMAGES AND TEX TURES TO USE WITH IMAGINE 3D. IMAGES ARE ARCHIVED WITH LHA AVAILABLE SEPARATELY. THIS PACK IS NOT RECOMMENDED FOR AMIGA BEGINNERS ALL DISKS FOR ONLY £10.00 INC P&P

AMIGA のプロショップだ！

A600DX SET V2.004	A500 V1.3 1MB RAM	A1200 V3.0 AGA	A1200HD V3.0 AGA 85MB
59,000	54,000	74,800	144,000
A2000 V2.05+ECS	**A4000-030 5MB/HD120MB**	**A4000 68040 6MB/HD120MB**	**A3000-030120/4MB**
108,000	269,000	378,000	258,000

■グラフィックス

SCENERY ANIMATOR 2	9,800
BRILLIANCE	27,900
DELUXE PAINT AGA	19,800
IMAGINE 2	49,600
IMAGE MASTER	27,900
RETINA 2MB	77,000
DC-TV	49,800
CALIGARI 24	48,900
ALADDIN 4D	49,800
PLAYMATION	49,800
REAL 3D CLASSIC	18,800
OPAL VISION V2.0	149,000
PIXEL 3D PRO	29,800

■エミュレーター

AMAX II PLUS	57,900
ROM FOR AMAX II PLUS	34,900
A236 BRIDGE BOARD	42,600
386SX BRIDGE BOARD	119,000
EMPLANT DELUXE	78,000
SYBILL	14,000

■ビデオ

PERSONAL ANIMATON RECORDER	298.00
IMPACT VISION 24	229,000
VIDEO TOASTER AGA	19,800
PERSONAL TBC III	149,000
MORPH PLUS	29,800
VIDI-AMIGA 12 AGA	25,900
ROCKEY CROMAKEY	62,400
THE PERSONAL SFC	72,800
AVIDEO 24	139,000
DELUXE VIDEO I	18,900
ART DEPT PRO AGA	29,800
FLICKER FREE VIDEO 2	39,800
CHROMA KEY PLUS	58,000

■言語

AMOS PROFESSIONAL	14,800
SAS/C LATICE C V6.0	39,800
DEV PAC 3	16,900

(PRICES QUOTED IN JAPANESE YEN)

■ハードディスク

GVP 0MB/0MB SCSI CONTROLLER A500	56,000
GVP 0MB/0MB SCSI CONT A4000/A2000	27,800
2121MB 2.5' HARD DISK UNIT A1200	89,000
128MB 2.5' HARD DISK UNIT	65,000
84MB 2.5' HARD DISK UNIT A12000	49,000
60MB 2.5" HARD DISK UNIT A1200	41,400
A4051 SCSI -2 HD CONTROLLER A4000	59,800

■アクセラレーター

XL30 25MHZ A500/A2000	59,000
VXL32 2MB RAM FOR VXL30	43,000
DERINGER 28MHZ A300	69,400
MERCURY 35MHZ A3000	129,000
DERINGER 50MHZ +4MB +MATH-CO A50093,800	
BLIZZARD TURBO 16MHZ A500/A2000	39,800
A1230 TURBO 40MHZ/4MB A1200	95,400
M12340XA 030 33MHZ A1200	72,800
M123XA5 030 50MHZ A2000	89,00
G-FORCE 040 33MHZ+4MB A2000	229,000
G-FORCE 40MHZ+4MB A2000	115,000
G-FORCE 50MHZ+4MB A2000	153,000
58881 MATH CO BOARD A1200	26,900
58882 MATH CO BOARD A1200	45,000
A530 TURBO HD 120MB/1MB 40MHZ	154,000

■その他

V2.1 UPGRADE KIT W/ROM	19,800
V2.1 UPGRADE KIT W/O ROM	12,000
MULTISTART II ROM SWITCHER	12,900
EXTERNAL 2HD FLOPPY DRIVE A500/A2000	24,900
INTERNAL 2HD FLOPPY DRIVE A2000	20,000
INTERNAL 2HD FLOPPY DRIVE A3000	20,000
BACKUP BUDDY FLOPPY DRIVE	25,900
TOSHIBA 1.2GIG HARD DRIVE	230,000
ASIM CD-ROM FS	14,900
SIMM RAM 4MB 60NS A400	30,000
SIMM RAM 4MB/MBX COPRO BOARD	25,000
SIMM RAM 8MB/MBX COPRO BOARD	53,800
DIGIVIEW MEDIASTATION	29,400
CLARITY 16	29,400
SIMM32 4MB RAM 68030	28,900
DSS8 PLUS	18,900
MEGA MIX MASTER	9,800
PCM CIA 2MB A600/A1200	32,900
SUPER GEN GENLOCK	99,000
BACKUP CLOCK A1200	8,900
V.LAB 24 BIT	78,200
CLOCK GENLOCK	68,900
A12-FPOO SCSI A1200	46,800
1942 QUADSYNC MONITOR	79,800
KITCHEN SYNC	227,000
EUREKA SCANNER 400DPI	27,600

店頭・通販
輸入卓販
木曜定休

a beautiful amiga life for you

システムコンパック

〒110 東京都台東区台東4-22-10 中屋ビル3階
TEL: 03-3837-8689
FAX: 03-3837-8218

NORTHWEST PUBLIC DOMAIN

CD Rom Bonanza!

17Bit CD Collection vol. 1+2 CD's! $39.95
NEW! 17Bit CD Collection vol. 2 (1 CD) $19.95
17Bit CD Collections 1&2 only $54.95
Aminet CD Walnut Creek promises the new one by Mid - February 1994 - $15.95
DemoCD 1 (Games,Music,&Mods)$27.95
DemoCD 2 (Same as above, Newer) $27.95
CDPD 2 (Fish 660 - 760, clipart, utils)$25.95
CDPD 3 (Fish 761-890,24 bit pix etc)$27.95
FRESH FISH (FISH 910+ and more) $20.00

New and Exclusive from NorthWest Public Domain!!!

Lock -N- Load

The ULTIMATE AMIGA PD / Shareware Games Compilation!! How about 1,000 Games and Commercial Game Demos? All runnable from Work-Bench! Compatible with CD32 !, CDTV, A570 and any External Amiga CD-Rom Drive! How Much?!

ONLY $22.49 (+$2.00S&H)

Dealer Enquiries Welcome!

DON'T FORGET!!!!

WE CARRY THE FULL LINE OF 17 BIT DISKS, AS WELL AS ANYTHING ELSE YOU MIGHT HAVE SEEN OR HEARD ABOUT!!!

AM/FM - NORTHWEST PUBLIC DOMAIN IS NOW THE EXCLUSIVE U.S. DISTRIBUTOR FOR THESE OUTSTANDING MUSIC MAGAZINE DISKS and Companion Sample Disks ! PRICES: AM/FM - $5.00 (get the AM/FM disk and companion sample disk for $8.00)

CLR LICENSEWARE- We carry the full line of CLR LICENSEWARE!, ALL of 'em! PRICES:
1 DISK TITLE - $5.50
2 DISK TITLE - $6.50
3 DISK TITLE - $7.50
($HIPPING AND HANDLING FOR AM/FM AND CLR LICENSEWARE DISKS IS THE SAME AS FOR OUR REGULAR DISKS!)

Send $2.00 FOR OUR FULL CATALOG DISK!

New Assassins Games Disks:(Call for free list!)
ASI 139 - The Big Game, Bat Dog, Amiganoid
ASI 140 - Fatal Mission 2, Chronic the Hodge Heg, and Megaworm.
ASI 141 - Black Dawn, Reversi II, Gold Rusher.
ASI 142 - Rueda, Galaxy '93, Courtroom.
ASI 143 - Intense, XAloms, Pontoon(Cardgame)
ASI 144 -BrainShave, Nibby Nibble, Rejection.
ASI 145-Puzzword, KungFu Charlies, Super Pong
ASI146 - Entity, BattleCarsII, AmasterMind III
ASI 147 - BackGammon Deluxe, Tut's Tomb (Card game), Mancala, Parattack.
ASI 148 - PollyMorph, Nostalgium, MegaMind
REMEMBER! ANY 10 ASSASSINS GAMES DISKS FOR ONLY $15.00 + $2.00 S&H!!!

NEW NPD DISKS:
DEM 163 - ABSTRAX PIG Demo - Great new AGA only Demo, opens a 1280x400 overscan screen!
GAM 271 - RUBICON - Nice looking Role Player.
GAM 272 - MEGABALL 3 - All new with AGA graphics support. Same great game,more colors
GAM 273 - MINE RUNNER - Awesome recreation of the classic Lode Runner game!!
UTI 147 - MAGICWB - The ultimate WorkBench Enhancement. Requires WB 2.0 or Higher.
UTI 148 - DISKSALV v2 and REORG v3.1 - Two utils that no Hard Drive user should be w/o. WB 2.0.

NEW PRICING!!!!
For 17 Bit, NPD, AMOS PD and ASSASSINS Games Disks pricing is now as follows:
1-24 Disks - $2.00 Ea. 25-49 Disks - $1.50 Ea. 50+ Disks - $1.00 Each!
FRED FISH DISKS ARE NOW:
1-49 Disks - $1.50 Ea. 50+ Disks - $1.00 Ea.
SHIPPING & HANDLING:
1-10 Disks-$2.00, 11-50 Disks-$4.00
51+ Disks $6.50 (S&H Prices for US, CANADA, and MEXICO,all other Foreign countries add $0.25 per disk)
We accept Cash, Checks, and Money Orders in US funds, as well as VISA/MC

P.O. Box 1617 - Auburn, WA 98071-1617 (206)351-9502

Arachnophobia as you've never seen it before thanks to the awesome live image processing power of TBCPlus

That syncing

Paul Austin explores probably the best professional video peripheral of the year, as GVP unveil the amazing TBCPlus

Even though the Amiga has had a long and illustrious career in the video business, time base correctors still generate puzzled expressions and vague conversation from even the most experienced Amiga videographers.

The reason is that TBCs – as they're more often called – have always been expensive beasts, swathed in mystery, only to be found lurking at the heart of the most pricey pro edit suites.

Now GVP are set to change that with the arrival of TBCPlus, a product that not only offers colour correction and a rock solid sync but much more besides.

If you're a little unsure about the subject, have a quick browse through the background info section and pop back later because it's time to dive head-long into the features and functionality of this excellent product.

Not surprisingly TBCPlus is yet another peripheral that demands a Zorro slot whether it be version II or III, so am afraid an A1500 or above is a prerequisite. Aside from adding the card, the only other essential is to plug-in the supplied 25-pin connector, which bristles with ten assorted I/O leads.

Assuming you've selected the appropriate input and output connectors for your particular kit, all that remains is to install the software and start to experiment.

On boot-up the first task is to select the appropriate input and output format. In fact it's here where you have your first taste of transcoding – a process which is so simple you hardly notice you're doing it.

However before you transcode or convert from one video format to another, you must define your source. In the case of TBCPlus there's simultaneous support for two composite and one Y/C, each of which can be switched live with a clean frame accurate cut.

Y/C SIGNALS

For those working exclusive in Y/C, there's also an option to accommodate two Y/C signals, but to use it you'll need to invest in a Y/C mini din which splits the luminance – Y – and chrominance – C – into two separate male phonos.

Once achieved you plug the separate signals into the composite inputs and select Y/C2 on the control panel. Now you can switch between the two Y/Cs – but of course composite input is sacrificed in the process.

Fortunately GVP have had the foresight to include a comprehensive selection of preset project settings which offer automatic configuration for most systems.

In addition, the card's ARexx support provides a few useful scripts for fading down one input, switching and fading up on another, and of course where you find ARexx you're sure to discover user-definable macros which offer an even more flexible application of the card.

BASICS

For now I'll leave the plus aspects of the card aside and concentrate on the basics. Assuming your equipment is providing an input and the correct input mode is selected, the card will automatically sense the incoming format.

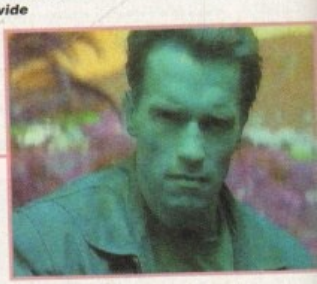
However, to ensure success and to pro-

Just a selection of the available live effects that an infinite window TBC with full 8-bit 4:2:2 CCIR-601 broadcast quality image processing can provide

Normal video

Negative

Negative II



False colour

Background

It sounds good, the output looks great, but what exactly is a TBC, and what does it do? Essentially a TBC has two basic talents. The first is to provide a rock solid video signal which can then be passed downstream for additional processing or editing.

To achieve this the live video is temporarily stored within the board's on-board RAM, any errors in the sync are corrected and the subsequent squeaky clean signal is then passed on.

OK, all very nice, but why is a rock solid signal so important? All video processing operations require a sync signal, and the better the signal is the better the end results will be.

For example add-on hardware such as genlocks, frame grabbers, chroma keyers, video mixers and video editing systems all benefit immensely from improved signal quality.

This also extends to tape duplication. If you lose a generation in normal circumstances the degradation of the signal can cause real problems if you then need to process the signal later on. However if you use a TBC during duplication you ensure optimum signal quality and perfect sync for downstream production – no matter how many generations are lost. In fact thanks to the TBC a later generation will lose little image quality, if any.

In addition to providing a rock solid sync, the second basic element of any self-respecting TBC is the ability to apply live colour correction to the signal.

In the case of TBCPlus this is achieved via the Proc Amp pop-up requester with which you can adjust brightness, contrast, hue and saturation – in addition to mono conversion.

Add sync adjustment and colour correction and you have the basis for a TBC. But in the case of TBCPlus this is only the beginning. In addition to the essentials the plus part of the system provides real-time frame grabbing, digital video effects, live user-definable image processing, video format conversion and transcoding all as standard.

feeling

vide a little added flexibility the input requester allows manual selection between two NTSC formats, four PAL, one Secam plus two mono modes running at 50 and 60MHz respectively.

Assuming you're happy with you inputs, it's time to move to the output requester and select between the six assorted PAL and NTSC formats.

All you need do is select the format you require, and the outgoing signal will be automatically converted and sent simultaneously to composite and Y/C outputs.

As a result you're provided with a means of converting NTSC, Secam and PAL to either PAL or NTSC frame rates and resolutions, while simultaneously transcoding the signal either to or from Y/C or composite with the minimum loss of image quality.

As mentioned in the background info, another common use for a TBC is live colour correction. Here again TBCPlus scores well via the Proc Amp pop-up requester which allows complete control over the colour composition of the signal.

With the various transcoding, format conversion, sync adjustment and colour correction TBCPlus adds up to an impressive – if somewhat specialist – pro video product. However, that's only the beginning...

Although TBCPlus has the option to add additional special effects hardware, the card also ships with a impressive collection already built-in. Thanks to the board's 1Mb frame buffer you're provided with three strobe DVEs plus a single freeze frame effect.

Better still, the effects themselves can employ a user-definable delay. As a result you can emulate simple stop frame animation or go right up to user defined sequential snapshot freeze frames.

Although this may be stating the obvious, it's worth stressing that all the effects listed are applied to live video and can be switched and combined with colourisation effects without a glitch.

GOODIES

As you can see from the screenshots, strobe and freeze frame effects are by no means the only goodies on offer. In fact the board's built-in colour processing options can produce stunning end results. And of course, when combined with the strobe and still frame your imagination is the only limitation. I'm impressed!

Like the rest of the system, special effects receive a high level of user control with options to grab either full or odd and even frames for both still and strobe effects.

As for colourisation control, you're provided with a slider to adjust the severity of the chosen effect. Again all adjustments are made in real time – so you can add even more variety to the chosen effect.

An obvious extension of the freeze frame effect is the ability to grab and store the data on disk. As a result, superb frame grabbing is a key TBCPlus feature. Due to the broadcast quality of the strobe and still-frame features, grabbing single frames is second to none.

As you're probably aware, VlabY/C offers more advanced frame grabbing features such

Beginners jargon buster

advance sync: An advanced sync signal transmitted 4.1 microseconds ahead of the video frame which allows servo-locking VCR's to precisely match the incoming video sync signal.

black burst input: A completely black video signal which supplies an external sync reference for TBCPlus when being used as a frame synchroniser.

chroma: The element within the video image which carries colour information.

luma: The element within the video image which contain brightness information.

composite video: A single video signal which contains all the information necessary to form a complete video image.

Y/C: An abbreviation of luminance and chrominance, used to represent a two channel video standard used by S-VHS/ Hi8 video equipment.

sync: A sync pulse is the first element in a video signal.

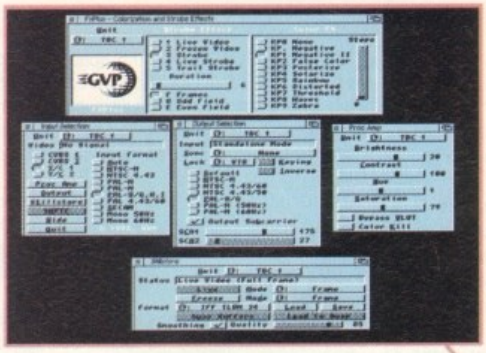
I²C: A serial communication specification used widely in professional video equipment.

Posterise

Solarise

Rainbow

Distorted



Above left: Easy set-up via the board's basic control requestors – plus another four calibration pop-ups waiting in the wings. Above right: ImageFX import couldn't be simpler. Add an alpha plus the odd effect and your imagination does the rest

as sequential grabbing via the IFR system, but if you're after full frame grabs that hardly ever require deinterlacing, TBCPlus is quite simply the best in the business.

Aside from the unbeatable image quality, TBCPlus has another huge asset for the professional videographer. Although there are quite a few real-time 24-bit grabbers on the market, most suffer from a noticeable pause between hitting the button and the actually grabbing the frame.

But with the assistance of TBCPlus the grab is instantaneous. Obviously during fast action and close edits this can be invaluable, and of course the lack of interlace flicker means even fast action can always be stored at optimum quality.

GRABBING

Unfortunately there is one minor limitation in the grabbing department. Although you may have a colourisation effect running at the time, the actual grab is always saved out in its original form, so you'll require the assistance of ImageFX, ADPro and ImageMr to emulate the desired effect after grabbing the image – see ImageFX on-line box for more information.

Like the effects section, stillstore offers a good deal of user control with options to select between odd or even fields plus full frame. When a suitable image is captured, you're provided with the option to save out in the following formats: IFF24, Jpeg – with user-definable compression and optional smoothing, YCrCB and Caligari.

As you've probably gathered thanks to the brief mention of the ten-way 23-pin connector, input and output are taken very seriously on the TBCPlus.

The various inputs include two RCA/phono composite ins which can also double-up as an additional split Y/C. As well as the aforementioned RCAs, there is also a single Y/C mini-DIN.

In addition to the basic video ins, there is also a sync reference or black burst-in which with the assistance of a T-connector can provide a sync reference pass-through. Finally there's an additional – and separate – stand-alone key input.

Output does equally well with simultaneous Y/C and composite-out plus a separate advanced sync which can be used with downstream hardware.

As well as the basics, there is also an option to add linear time code to the equation via an optional SMPTE/EBU timecode reader/generator. Although not yet shipping, the chip should be available by the time you read this article.

With this addition to the system you're provided with ability to both read and generate Vertical Interval Time Code – VITC – and Longitudinal Time Code – LTC – in all SMPTE and EBU standards, which of course makes the system even more attractive in pro studio situations.

Due to the SMPTE option, twin phono LTC connections are provided as standard and simply require the addition of the time code chip to become active players in the board's I/O repertoire. Lastly GVP have also added an I^2C remote control connection for video kit equipped with the appropriate data bus.

UPGRADE

Although expansion has been mentioned in relation to the board's optional SMPTE chip, SMPTE is only the beginning of the available upgrade options.

In a obvious attempt to court the pro market, an optional Comb filter can be added to the system allowing TBCPlus to split an incoming composite source from a camera, tuner or Laserdisc into separate chroma and luma signals, thereby allowing the board to process the signal as if it were a true Y/C input, resulting in a much improve output signal.

For those looking further into the future, GVP have also added a digital features bus and a video expansion bus. The plan is that these existing ports will allow the addition of direct-to-disk video recorders, 3D digital video effects generators, Jpeg non-linear editing systems, RGB/YUV transcoding as well as chroma, luma and linear keyers.

My only concern was GVP's track record for developing proprietary expansion ports which would obviously limit third-part support. However after conversion with GVP's Gary Nush and Letitia McMaster, I'm assured the buses aren't as proprietary as the manual would have me believe, and in fact most third-party hardware should work without modification – we shall see.

RAM expansion is another speciality of the board, with an option to add up to 8Mb of RAM – GVP's own brand of course. Although not tested the manual claims that thanks to GVP's DMA technology transfer times of 3.58Mb per second can be achieved – a figure far superior to normal Zorro II transfer. AC

ImageFX on-line

Not surprisingly GVP have built in a good deal of affinity between TBCPlus and ImageFX. As a result TBCPlus appears in the scanners list and can be controlled directly from ImageFX for frame capture.

Basically all the control elements available in the Stillstore requester are repeated within ImageFX, so as you can see from the examples producing video compositions using two buffers and an Alpha is very straightforward.

As mentioned earlier, colourisation effects are ignored so you'll have to add them once the image has been imported, but as you can see the creation of weird effects isn't exactly difficult.

As for ease use there's no complaints whatsoever, specifically thanks to the board's ability to freeze the image prior to actual importation.

As a result you can sit back and repeatedly hit the freeze button until the best possible grab appears and then import, rather than grabbing direct, only to find the import isn't what you wanted.

Verdict: TBCPlus

For the serious enthusiast and pro Amiga videographer, I'd say TBCPlus is an absolute must in any production suite. As you can see, the video quality is exceptional while the additional features make it one of the most impressive special effect generators on the market.

The only extra I would have liked would be the ability to mix or crossfade between the various video inputs. As it stands, mixing between sources still demands a dedicated video mixer and a second TBCPlus.

However, leaving this minor grumble aside the fact remains that the product as it stands is probably the most important Amiga-based videographic advance of the year and GVP deserve a slap on the back in every department.

SYSTEM ESSENTIALS

RED = Essential **BLACK** = Recommended

Zorro required

Video gear

Accelerator

Hard drive

The bottom line

Ease of use: 10
Implementation: 9
Value for money: 7
Overall: 9

Supplier: Silica Systems
Tel: 081-309 1111
Price: £899

CUT, TICK & POST...CUT, TICK & POST...CUT, TICK & POST

MasterCard

TELEPHONE HOTLINE'S (0702) 466933 FAX (0702) 617123

VISA

PD SOFT (AC) 1 BRYANT AVENUE, SOUTHEND-ON-SEA, ESSEX, SS1 2YD

Fred Fish

Fred Fish has been working to supply the Amiga community with the finest quality redistributable software since the Amiga's introduction in late 1985. The Freshfish CD-ROM series is produced directly by Fred Fish, to provide you with hundreds of megabytes of the very latest software.

Unlike many other CD-ROM distributions, most of the software on this-CD ROM is ready to run directly off the CD, without having to copy it to a hard drive or unpack it. * The current Fresh CD ROM is upto 975 and the latest 25 disks ready to run and all others in the format which is BBS ready. Also contains a full descriptions of all the disks.

❑ **CD4000** (£19.99+P&P) I would like to subcribe to the **FRESH FISH** CD ROM series and i understand that the each CD will be delivered to my door every 6-8 weeks or as and when they are released.

❑ **CD5000** (£19.99+P&P) I would like to subcribe to the **FROZEN FISH** CD ROM series and i understand that the each CD will be delivered to my door every 6-8 weeks or as and when they are released.

Payment Details

(i) Credit Card Order ..... ❑ I would like my credit card number and expiry date, name and address have been filled in below) to be charged on date of release of CD

(ii) Cheque or PO Order ..... ❑ I would like to pre-pay for ..... CD ROMs at the above price and I have enclosed a cheque / Postal Orders (PO) to cover the costs.

Order any two £29.99 CDROMs for £49.99

❑ **CD5 ..... GIFs Galore** CD ROM Price: £24.99 + (£1 Postage & Packing)

❑ **CD8 ..... MultiMedia Tool Kit** CD ROM Price: £19.99 + (£1 Postage & Packing)

❑ **CD11 ..... Source Code** CD ROM Price: £29.99 + (£1 Postage & Packing)
* This code gives you an enormous source code collection to reference. 600Mb of source

❑ **CD12 ..... Project Gutenberg** CD ROM Price: £24.99 + (£1 Postage & Packing)
* Contains English language literature such as Oedipus Trilogy to The Wizard of Oz.

❑ **CD13 ..... Fractal Frenzy** CD ROM Price: £19.99 + (£1 Postage & Packing)
* Contains the definitive collection of Lee Skinners Fractal art work. Beautiful images

❑ **CD14 ..... Internet Info** CD ROM Price: £29.99 + (£1 Postage & Packing)
* Contains a wealth of information that is available on the Internet computer network.

❑ **CD15 .... Clip Art Cornucopia** CD ROM Price: £29.99 + (£1 P&P) * ISO9660disc contains 680Mb of Black and white images in PCX format from flowers to computers

❑ **CD16 ..... Aminet Vol II** CD ROM Price: £19.99 + (£1 P&P) * Another four megabytes of fun. Hundreds of applications such as GNU utilities, editors, hypertext, plotter utilities and modem programs, Demos, Games, sound files. ISO 9600 cd drives. Aminet Vol 1 (CD4) is still in stock £19.99

Special Products!

❑ **T1000 ... The A64 Emulator** VERSION 3 Price: £54.99 + (£1 P&P) * Just Released! The best selling Commodore 64 emulator just got even better! All new sound and graphics!! All new software! It's now compatible with all Amiga's versions of AmigaDos and is completely multitasking! Fully supports Amiga hard and floppy drives and modems. The internal software allows you to connect your C64 disk drives and printers to your Amiga. Actually runs faster that the original 64. New File transfer software! Dont throw out your old software.. use it again. Trade Enquires Welcome!!!

❑ **T1001 ..... PC TASK** FULL VERSION Price: £44.99 * IBM Emulator for the Amiga

❑ **T1002 ..... Formula One Challenge** Price: £4.99 + (Postage & Packing)
* Manage you own Formula One Team. Multi-player or play against the computer.

❑ **T1006 ... The Ultimate Solitaire** Price:£7.99+(£1 P&P) * a football management game with a unique results system. You get to see all the results and scorers during your game. The match happens in real-time so you can make changes when you think they are necessary. You can also view how a rival team may be getting on.

EDUCATIONAL DISKS

❑ **^ V792 KIDS GAMES** Geography Math, Science and History Games

❑ **^ V793 AMIGA BEGINNER** You asked for it Tutorial for the beginner on your Amiga!

❑ **^ V849 LANGUAGE TUTOR v1.0** Spanish, French, German, Italian

❑ **^ V908 DPAINT TUTOR** Do you have DPaint. The learn how to use it with this disk

❑ **^ V927 CLITUTOR** Helpfull program to understand how to use CLI/SHELL

❑ **^ V933 OCSE MATHS** Program to help with the GCSE maths course

❑ **^ V1015 JAPANESE** Help teach Japanese. Word-a-day & Vocabulary.

❑ **^ V1157 DINOWARP TRIVIA** You land suddenly & apear in front of a Dinosour who gones to let you go if you answer 50 questions.

❑ **^ V1158 BACK TO SCHOOL** Will demostrate to the young ones just how to learn on the computer whill having fun. (2)

❑ **^ V1165 6TH FORM EDUCATION** Contains Biorhythms, Calc, Elements, Huge, Resumebreaker, Typist, Weeny and Wordy

❑ **^ V1168 VISIT TO A RED PLANET** Good action, colour pictures & voiceovers make this disk into a stunning production

❑ **^ V1170 COLOUR THE ALPHABET** Excellent colouring book for kids and big kids.

❑ **^ V1172 DUNGS DTP** Childrens work is even done with just the keyboard its a typing program with graphics capabilities

❑ **^ V1180 BACK TO SCHOOL 3** Contains Treasure Search, RetlexTest, Type or Die, more educations programs of kids.

❑ **^ V1181 COLOUR THE ALPHABET** for early learners which may help with letter & colour recognition and a bit of counting too.

❑ **^ V1217 JUNIOR MATHS** Cut down version which features Counting function so does your child needs help with numbers.

VARIOUS UTILITY DISKS

❑ **^ V16 AQUARIUM** Turns your screen into an eyecatching Fish tank

❑ **^ V277 FORTRAN-77 v1.3c** Compiler, linker & run-time support libs

❑ **^ V308 NORTHC v1.3** Complete C language with all libs needed (2)

❑ **^ V301 EYE OF THE BEHOLDER** Disk Book with Maps, Strategy & Solution.

❑ **^ V332 AMIGA PUNT** Will try and predict which horse will win the race.

❑ **! V350 BUSINESS CARD MAKER** Design your own Business cards.

❑ **^ V366 600 BUSINESS LETTERS** Over 600 Standard Business Letters.

❑ **^ V390 DESK TOP PUBLISHING** Extra features,Text & Graphics Editors

❑ **^ V401 WINDOWBENCH (2)** Give your Workbench v1.3 o stunning new look and upgrade your Workbench to v1.4

❑ **^ V424 ANTI-FLICKER** Said to stop the flicker in High Res mode

❑ **^ V489 AMIBASE PRO II v1.8** This is the most popular PD Database program

❑ **^ V490 MESSY SID v2.0** Reads MS-Dos disks, Transfer any text files to & from an IBM PC, ie PC to Amiga

❑ **^ V575 HOME BANK COMPILER** Matthew Dillons full featured powerful C compiler & environment system. Complete C language (2)

❑ **^ V536 CATALOGUES** A collection of Utilities used to Catalog all your disks/ Video tapes and audio tape collections (2)

❑ **^ V573 FILE & HD** HDClick v2.0, File Minder, DosControl, & tools. (2)

❑ **^ V575 HOME BANK** Fully Based on word processing, Data Management, Spreadsheets, Accounts & Printing. (6)

❑ **^ V583 ICON EDITOR II v2.0** Create Icons upto 640x200. Edit or Create

❑ **^ V610 GOLF** Golf Game. Add It will record each round you play & Store it

❑ **^+> V611 FOOTBALL LEAGUE v1.1** Won't to update your teams league position.

❑ **^ V635 IBM EMULATOR v1.5** is a CGA Colour IBM-PC Emulator for Amiga.

❑ **^+> V660 HOME MANAGER** Is an addressbook, inventory database, 2-do list & Mail Merge all in one Program

❑ **^ V662** GOLF Golf Game. Add It will select the speed of the disk drive, Copy modes, Dos, Nibcopy, Ver & safecopy

❑ **^ V678 DRAW MAP v4.1** You can generate world maps in vatied views. 3d or 2d ❑ 2Mb (2) or ❑ 1Mb V263

❑ **^ V681 GAME TAMER v4.59** Get a hold of that extra hard game with a cheat

❑ **^ V685 ASTRO ASTROLOGY v3.5c** Best Astrology program on the Amiga

❑ **^* V690 WB 2/3 UTILITES** Contains the programs that should have been with WB 2 or 3. Take full advantage of the many NEW capabilities that are available. (2)

❑ **^ V710 AREXX TUTORIAL** Includes several samples of Arexx scripts and programs

❑ **^ V711 ANIX** Working demo of Minix (A Unix) based System. Book of the Boot

❑ **^ V719 FREECOPY v1.8** Removes protected games copy protection so that the user can install them on HD.

❑ **^ F691 PROFESSIONAL PAGE MANUAL v3.0** Is the largest collection of utilities, documents & examples for C, It consists of six manuals, with over 40 chapters (5)

❑ **^ V713 POSTSCRIPT** Is a customised version of the Word processor with **AZSPELL**

❑ **^ V761 A-GENE v4.18** The most popular genealogy database program.

❑ **^ V782 ARTIST** Draw, Paint, Edit, Draw Colour & print your own forms

❑ **^ V783 PROGRAMMING TOOLBOX** Many programs to help in your development efforts. Ideal for the novice to learn

❑ **^ V784 AREXX** Contains a selection of Arexx programs & finished examples (2)

❑ **^ V786 PASCAL** Everything needed to program in Pascal. A complete development

❑ **^ V787 PROGRAMMER TOOLS** GadTools to design your user interface to your own programs using all of DOS 2.0+

❑ **^ V790 ANIMATION UTILS** Includes CyroUtils for splitting, combining, creating animations from iff picture files.

❑ **^ V791 DIRECTORY UTILS** Highly recommended. Programs which are designed to make CLI tasks virtually painless.

❑ **^ V794 GRINDER** Complete graphic conversion package that supports GF, Jpeg, Rgrab, PCX, Targa, 181 even 1 and iff Formats

❑ **^ V799 ADVENCED UTILS** Archive, Parnet, Connect 2 Amigas & share resources via serial or Parallel ports. MyMenu

❑ **^ V801 ELECTRICAL v1.42 & PRO TOYPER** Electronics drawing software.

❑ **! - V817 A500 PLUS EMULATOR** As it sounds will let v1.3 / v1.2 owners run WB v2.xx- software WITH-OUT any need to purchase the Workbench 2.04 upgrade

❑ **^ V820 BBBBS v6.5** Baud Bandit bulletin Board System Flunes include up to 99 file libraries, interface to extra devices.

❑ **^ V821 SNOOPY** Automatic Telephone Calls to see what library, devices, fonts are required if a program won't load

❑ **^ V827 REPAIR-IT 2: NewZap v3.3,** Sector file editor **DISKSX v1.2,** Recovers as much as possible from a defective disk

❑ **^ V841 MODULA-2** Contains modula-2 language on the Amiga

❑ **^ V843 SID v2.01** Sid can be used for various operations, like file copieng, renaming, deleting, Moving, Formatting ect

❑ **^ V858 MUSIC MAKERS** Programs to produce your own music on the Amiga.

❑ **^ V865 IMAGE PROCESSORS** Tools to perform wide variety of image techniques

❑ **^ V866 MANDEL EXPLORER** collection of Tracker Sensitive software utilities (2)

❑ **^ V875 SPACE** This disk will help you study, identify the Stars & celestial objects.

❑ **^ V888 TRONI CAD v1.36** Is the best Computer Aided Design program with excellent support for the AMIGA (2)

❑ **^ V899 BACK-IT UP** Newly updated disk which contains ABackup v4.03. A Powerful backup utility that may be used for Hard Drive backup, Floppy disk backup. It also contains Sysinfo v3.23 + BackUpv1.4x

❑ **^* V901 FIM v2.2** stands for Fast Intro Maker which will allow you to create Intros

❑ **^ V924 PLOT MAP** An extra disk for use with Draw Map v4.0+ Will allow use with 512K

❑ **^ V928 THE LITTLE OFFICE** One of the best disks. Has a Word Processor and others programs to aid a small business company.

❑ **^ V934 LETTERS & BOILERPLATE** contains various letters for you to use as your own or cut and pouse into a Word Processor

❑ **^ V942 SCREEN BLANKERS** A disk packed with screen blankers. Includes the Twilight Zone, Flying toaster, plus lots to others.

❑ **^ V943 LYAPUNOVIA v1.5** Mindboggingly colourful program that makes pictures from a mathemetical formula. AGA support

❑ **^ V945 PROPAGE & ENHANCE** Over 40 Genies for use with ProPage 3.0

❑ **^ V946 SYSTEMOPTIMIZER** KCommoditywes you memory meters. Rtorg will optimize hard, floppy, Ram for optimal performance. HDMem will free memory. 2 Meg of HD space for 2Mb

❑ **^ V948 INTUITION BASED BENCHMARKS v6.5** Contains all the popular BMs like Sieve, Dhrystone, Whetstone, Gauge ect.

❑ **^ V949 TESTS** Contains all of the classic speed tests and system checks we could find. Includes CPU Speed and system diagnostic tool

❑ **^ V952 x-BENCH v1.0** is the complete solution to benchmarking your Workbench. Contains loads of useful utils LastHope, Mouse Virus Checker, Power packer & DCopy2 (2)

❑ **^ V958 CLUB LEAGUE** Is a utility that will allow you to edit and keep track of your divisons/leagues/cups. Ideal for pub leagues

❑ **^* V962 SUPER KILLERS v5.1** The latest Virus Killers like BootX v5.23b, Virus Checker v6.34 and the new release of Virus Z v1.0 should be able to kill those pesky viruses. (2)

❑ **^ V976 WB 2.0 UTILS 6** Heres another disk of WorkBench enhancement utilities

❑ **^ V977 HDUTILS** More Excellent utilities for hard drive owners. Quick Backup, Quick UnDelete, KeyMac, MegaWB, MR, 1 Plane, Open!, ResumeMaker & StarBlank.

❑ **^ V979 NCOMM v3.2k** Is a communications program based on Comm v1.34 with lots of very nice enhancements

❑ **^ V980 KICK 2/3** Will upgrade your A500+, A600 or AGA machines to run all that old software that would NOT normaly work. Turns them into a kickstart 1.3 machine

❑ **^ V983 MEGA DISKEATS v3.0c** Now contains over 500 cheats.

❑ **^ V984 PROTRACKER v3.0a** The latest updated version from Norway. Various bugs fixed and great many brand new features

❑ **^ V988 ZIPBENCH v4.0** Another Workbench replacemeant but contains excellent utilities like, powerpacker v2.0a, powerplayer, SysInfo, Virus Z, Mouse Power, Ibase, BootInfo, Degrade, Fist Aid Exe (2)

❑ **^ V994 THE MONEY PROGRAM v1.5** Features include upto a maxium of 60 accounts, upto 30 diary paymenys.

❑ **^ V1000 GRAPH-PRO v1.0** Written with Amos pro by David Jordan. Basically takes a set of data, plots them on a graph.

❑ **^ V1001 VMORPH v2.21** Will allow you to create smooth transitions between two different images over a period of frames

❑ **^ V1002 RAMOS PRO v1.12** If you have Amos Pro then this disk will make your programming life a lot more enjoyable.

❑ **^* V1003 NICKPREFS** Is an enhancement to WB 2/3 which adds 3 new preferences (WBPicture, BuzyPointer & Floppy.

❑ **^ V1004 FISH DISK 1000** Is the first batch of AGA utilities for WB 3.0 users

❑ **^ V1009 TURBO TEXT v1.1** Excellent Word Processor. Very impressive version

❑ **^ V1013 POSTSCRIPT** Is a customised version of the Word processor with **AZSPELL**

❑ **^ V1016 OCTAMED v2.1** Music editor which was designed for making music.

❑ **^ V1017 ZIPPY TEXT** Is a excellent Postscript interpreter for the Amiga which implements the full Adobe language (3)

❑ **^ V1021 (AGA) SCREENS** Enhance your Workbench screens. Includes loads like these's. All pictures in full AGA colour.

❑ **^ V1022 LITTLE TRAVELLER v1.1** Shows a world map. You can select any country for travel information. Zoom facility and many more.

❑ **^ V1024 (AGA) MANDELSQUARE v1.6** Generates enhanced AGA set images. You can create 256 coloured pictures

❑ **^ V1025 TERM v3.4** Comm programs. Xpr transfer, filetypes, Host mode, Autodial, cut & paste, point-and-click, auto upload/ download, VT102/VT220, Ansi emulation, powerful phone book & full arexx support (3)

❑ **^ V1037 (AGA) A1200 WB UTILITIES** An excellent collection of Utilities & Hacks

❑ **^ V1038 AMOS PRO UPDATER v1.11** Ist Update to the Amos Professional

❑ **^ V1039 (AGA) HD INSTALL** If you need to install your A1200 HD then you need this set of disks which can do a low-level format and then install Workbench 3.0 (2)

❑ **^ V1040 BASE91 v1.4** A very flexible, versatile, yet full featured database. Greatly enhanced and a successor to bBASE II.

❑ **^ V1041 DIGITAL BREADBOARD** Full Logic gate circuit simulator

❑ **^ V1043 SUPER DARK v2.04** A screen blanker like After Dark from the MAC

❑ **^ V1044 FANCY PRINTING** Banner, Printfiles, Paper v1.2 and Print v2.59

❑ **^ V1045 uDRAW v1.0** a must have item for the rabid drawing of schematic diagrams.

❑ **^ V1051 EASY CALC PLUS** A spread sheet designed to be both easy to use and fast. Built in excellent help system.

❑ **^ V1054 ADVANCED UTILS 2** Compress Disk doubles the capacity of your D on the fly with minimal performance loss, SCSI Mount

❑ **^* V1055 PARSENCH** All the software you need to hookup 2 Amiga's or CDTV's.

❑ **^ V1056 DEVELOPER** Contains the official Commodore developers Kit for RexAmiga. Amiga Guide & Rexx utilities

❑ **^ V1058 3D GRAPHICS** Several 3d modelling/ray tracing programs

❑ **^ V1059 GRAPHICS** Create stunning graphics! Includes Mandelbrot, colourful spirals, Julia sets, Mandelbrot, Newton, Voxel Landscape and many more with stunning galaxy images. Roses, Rayshade

❑ **^ V1060 CIRCUIT BOARD DESIGN** Includes mCAD v1.26 and several terrific Circuit Board design programs

❑ **^ V1060 MIDI v1.27** Replaces all intuition menus, supporting both pull-down and Pop-Up. Menus can displayed in a 3d look

❑ **^ V1156 VIDEO TITLER** Can you provide professional looking TV titles and credits for your own videos. Well you can with this, it has outstanding abilities.

❑ **^ V1161 GOALKEEPER v1.0** Computer soccer administration program. Create your own objects in Sculpt / Turbosilver format

❑ **^ V1066 PRINTER DRIVERS** 5 Desk-jet 550c, 500, 500c, Ricoh HP1200, Canon BJ500, 130, LP8, 10e, PJ1080a HP Painjet

❑ **^ V1070 (AGA) ULTS 2** 256 colour icon editor, Pfont256, QuickGrid v1.1

❑ **^ V1071 (AGA) MSM v1.8** Mortins system monitor for programmers

❑ **^ V1072 (AGA) WINBLENDER v39.28** Create awesome 24bit morphing AGA fractals. Also contains 68030/040/FPU versions.

❑ **^ V1073 FT-X ACCOUNTS v2.01** Was written as there are not ready any other good personal accounts.

❑ **^ V1074 (AGA) ULTs 3** Collection of AGA Based utilities. Includes Kill AGA Which allows you to run old badly written programs including demos & some games.

❑ **^ V1077 GENEALOGIST v3.04** Is a specialized database for keeping track of genealogical information. Full featured & a wide selection of features to use.

❑ **^ V1078 PC TASK v2.03** Software IBM-PC emulator. It allows you to run the majority of PC software with no additional hardware. Now supports VGA, EGA, CGA and MDA.

❑ **^ V1079 KEYBOARD TRAINER** Will Best Public Domain Typing Tutor. Excellent

❑ **^ V1081 REPAIR-IT 3** Contains a selection of Disk, Hard Drive repairing and recovery utilities for the Amiga.

❑ **^ V1083 CROSS v5.1** Is a program that creates crossword puzzles for you

❑ **^ V1084 SPECTRUM EMULATOR v1.7** Is the latest and latest version of the most popular emulator for the Amiga. There is on 020/030 versions now on this disk which enhance the games on disk. (2)

❑ **^ V1087 STOCK ANALYST** Technical analysis and securities tracking program which calculates when to buy & sell shares

❑ **^ V1088 WB 2.0+ UTLs** Contains DirMrg, ED, DosEdes, Formatter, Key-Click, UnDelete, KeyMac, MegaWB, MR, 1 Plane, Open!, ResumeMaker & StarBlank.

❑ **^ V1090 ANDYS (AGA) UTLs** Another selection of utilities for A1200 owners also includes FakeMem, KillAGA, AGAText, Palette

❑ **^ V1091 ASTRONOMY v2.1** A menu driven astronomy program that calculates & information about the Sun,Moon, Planets and Constellations. New updated version

❑ **^ V1092 HEROQUEST AID** Will aid solo AD&D players who do not have a Dungeon master to help over the DMs role.

❑ **^ V1093 PARNET SET-UP** A two way network file system between two parallel ports, establish via two amigas. (2)

❑ **^ V1095 THE DEGRADERS** If you have trouble running software on an A1200 or A4000/030/040 give this disk a try it will emulate the basic 1.3 rom better that any other software on the Amiga at present.

❑ **^ V1096 MING SHU CHINESE ASTROLOGY** Will create a horoscape in seconds, not hours. in the second.

❑ **^ V1104 COLOURED ICONS** Transfer your drawings into beautiful pressentation of art with this database of excellent icons

❑ **^ V1106 MAJOR LEAGUE** Allows you to keep track of your favorite teams and there results. Will handle v2 .4

❑ **^ V1109 STAR VIEW** is designed to show graphically the positions of the stars and planets from any point on Earth.

❑ **^ V1110 ESTIMATE v2.03b** is a Horse Racing prediction program which uses statistical analysis of Major factors.

❑ **^ V1112 CHEQUE BOOK v2.5** Record your bank / credit card transactions.

❑ **^ V1114 PRINT LABELs** DocDump2.1, Envelope Print v1.2, Inlay Maker v1.4, MC master v1.1, Banner Press, Label Print v3.5

❑ **^ V1115 DOS WIZARD JNR** Dedicated Amiga Football Pools predictor

❑ **^ V1117 x-BEAT PRO** A good program for drum sequencing 16 bass.

❑ **^ V1125 LEMMINGS 2 INSTALL** This disk will install Lemmings 2 to your hard drive. Wb Chip RAM + 512k RAM

❑ **^ V1129 RED DRAWF TRIVIA** The Ultimate Quiz and answers game

❑ **^ V1133 COMMUNICATE v1.2** A helping tool for learning one of the eight formats of communications or languages.

❑ **^ V1134 TOOLMANAGER v2.1** Includes the ability to add your own Tools menu. add WB icons or Windows. (2)

❑ **^* V1136 DISKSALV ULTs** Copy_C A tool for making backup copies, formatting disks, Locate and directlist scripter. Disk Salv2 is a disk structure, file repair come salvage or undelete utl. HDClick, is a hard drive menu and workbench tool.

❑ **^ V1137 ALL ABOUT A4** Test, BBlank, CheckAGA, CycletoMenu, Doubles, Force VGA, GF Datatype, PKLudge, PPShow, Rand24, ViewTek and Vertaut.

❑ **^ V1138 ULTs 5** Degrader, Pow-Ray, AmigaToDouble, CardMemLast, Palette, Promator, RamTagMem.

❑ **^ V1139 (AGA) UTLs 6** A4091Patch, Alert, Hampton, Clouds, Hamlt, JPEG, NewPOP, NTSC4NTSC, PatchPointer, Plasma PCX & Screen Mode changer.

❑ **^ V1140 FOOTBALL FORECAST** v1.2 This is the latest and most upto date football results prediction program. Newest version.

❑ **^ V1141 MANDELPLOT v2.4** Does't just produce 2d tracts, can view them in 2d or 3d modes. make animations, even design your own tracts. Supports mandel-brot pradel, Julia sets

❑ **^ V1144 GRAPHICS** Contains JPEG files, DJPEGGui v37.1, MakeAnim7, BestAGA anim playback, S-Anim-S v1.1, S-Pic v1.2

❑ **^ V1145 MASTER III** If you want to produce a simple menu system, this is it wether for a hardis or a floppy disk

❑ **^ V1147 EASYBENCH** Contains a wide selection of utilities which covers almost all the best utilities on the Amiga (2)

❑ **^ V1152 GOLDED v.94** A GUI Based editor with lots of functions/options labout 250. Built in Arexx support, Find, OSS type functions, folding paragraphs, fully customizable menus, Hotkeys, Autobackup, Insert columns, Clipboard & more. (2)

❑ **^ V1154 MED v1.27** Replaces all intuition menus, supporting both pull-down and Pop-Up. Menus can displayed in a 3d look

❑ **^ V1156 VIDEO TITLER** Can you provide professional looking TV titles and credits for your own videos. Well you can with this, it has outstanding abilities.

❑ **^ V1161 GOALKEEPER v1.0** Computer soccer administration program. Create your own Mini Football leagues upto eight teams.

❑ **^ V1164 ASI A1200 FIX DISK** Contains all what you would need for getting disks to work on your new a1200 computer.

❑ **^ V1177 BETTERBENCH** Yes its another Workbench replacement utility disk packed 99% full of utilities and documents

❑ **^ V1178 KICKSTART 3 EMULATOR** This disk is a multi kickstart selection utility disk, You can select Kickstart 1.3 (34.005) Kickstart machine (as if is) Kickstart 3.0 (39.106) No AGA support but a superior Workbench ect

❑ **^ V1179 FILE-O-FAX** Designed for you to work at your own leisure without worrying if you,ll forgetting those important meetings, or names, address, tel Number's ect

❑ **^ V1184 AMIGA DIARY** is a mouse driven diary capable of storing all person events and is designed to those forgotten birthdays, missed appointments ect.

❑ **^ V1185 GENIE** is a new genealogist database which will keep track of info.

❑ **^ V1196 DESKTOP VIDEO** is a disk with making and editing your very own video master pieces. Contains excellent software

❑ **^ V1200 MAGIC WORKBENCH** Is a selection of utilities to enhance your Workbench screen and environment

❑ **^ V1207 OCTASTUFF** A new collection of utilities come samples come modules for the OctaMED soundstudio. (2)

❑ **^ V1208 OCTAROCK** A selection of rock oriented modules and samples IOctaMED

❑ **^ V1209 GNU C++ COMPILER** Version. HD Install. The basic's disks consists of the latest version of the GCC environment. Also the compiler, driver, assembler, linker, header files inline code generation of library calls. (3)

❑ **^ V1210 PSD-PROGRAMMING** Contains the Programming languages like, Ace, AmigaE, AmigaEdo, SBProlog, BCPL4AMI, EGUI, Pascal and others (3)

❑ **^ V1219 THE AREXX GUIDE** Full Amiga Guide document to teach you Arexx!! Flip filled with easy cross referencing

❑ **^* V1220 TERMINUS** Modem/Terminal program. Full featured scripts/screen modes/twerscon, all the popular protocols.

❑ **^ V1221 (AGA) BLANKER** BlitzBlanker for WB v3.x only if has 14 different blankers all ready to show off your AGA machine!.

❑ **^ V1222 PHOTOGENICS STUDIO** Special printer Preferences editor and driver system for all Panasonic 9 & 24 pin printers.

❑ **^ V1223 CANON STUDIO** Special printer Preferences editor and driver system for BJC 800&880, LBP A1, A2, BJC 800, BJS, 10, 20, 200, 230, 300, 130.

❑ **^ V1226 AMINATION & PAINT** Direct Action, Movie time animation player, QuickFlix a slideshow and cel animation, FreePaint

❑ **^ V1227 GADTOOLs** Contains a collection of shareded libraries intended to provide programmers with new GadTools

❑ **^ V1228 WB 3.0 UTLs 7** Contains another excellent helping of new utilities for WorkBench 2.0 and 3.0. Enforcer, A tool to monitor illegal memory access. Assign Manager, A new preferences item. PickFonts, Allows you to select a startup-sequence of your liking. Slide, A computer replacement for the of Post-It note.

❑ **^ V1229 (AGA) MAIN ACTOR v1.16** A modular animation system. Supports hardware, IFF-Anim 5/7/8, IFF AnimBrush, PCX, playing from Hard disk or play in a window. (2)

❑ **^ V1231 HD SOUND UTLs** Contains Sound, Voice, Midi Transactions. Also the intuition based music tracker that uses the internal sound capabilities of the Amiga. HD_Frequency, is a HD recording system enhancing sound quality. Also contains an A1200 specific

❑ **^ V1235 BLACKBOARD v1.0** is an image processor written specifically for the AGA chip-set machines. will load ILBM, IFF8, Sculpt4000 and you can Brush, Colour, Crop, Scale, Mapping, Edit, Rectangle, Change range also various Palette routines.

❑ **^ V1236 INVOICE PRINTER** Will print invoices using your own template or sort after. Ideally suited to a small business.

❑ **^ V1237 SUPERSPELL** A global spelling checker for use in any program you are typing under Intuition. Has word dictionary which you can edit, add, replace ect

❑ **^ V1238 KICKSTART SAVER v2.0** Functions include load disk df0:, df1:, load file, kickstart, workbench, Ram:, ect

❑ **^ V1239 SKICK PRO v3.43** is the replacement for Kickit, ZKick, and UKick ect intended for use on KS2.0 machines and its basis is to load any other version of kickstart into RAM. Emulated KS3.0 level ect.

❑ **^ V1240 SHOW STD v1.2** is a tool that can be used to show the area covered by a particular STD code on a map on the UK. Typing Tutors, is screen mode version of Typist.

❑ **^ V1241 THE PD OFFICE** is a little collection of wonderful utilities like EdWord-Pro, AddressBook, EasyCalc ect.

❑ **^ V1242 MASTER III** is a fast shareware disk optimizer for AmigaDOS.

❑ **^ V1243 IMAGE 2.0 OBJECTS** Volumes 4 to 7 packed to bursting point of images for use with TV Paint, Deluxe Paint, Photon Paint ect

❑ **^ V1247 TEXTURE MAPS** In 320x200 JPEG format for use with any rendering progrms, textures like Organic, Miscellanous, Sand, Stonewall, Water ect

❑ **^ V1250 SOLDERING** Contains many useful tools for drawing good quality circuit diagrams, and also weird-board listing board/ solder board/ component placer system.

❑ **^ V1265 DYNAMIC SKIES** A big textbook for astronomy that has, for an ultimate goal, to answer with speed any question that you might have about objects You can even animate Jupiter's path across the sky (2)

❑ **^ V1269 OCTAMED TUTOR** A simple guide through the basics of this excellent music composition program. OctaMED 3, xupwards

❑ **^ V1270 PRO BINGO** Brings all of the entertainment of Bingo to the computer.

❑ **^ V1271 THE DARK ROOM** will help you learn how to develop films and print photographs. You can even animate Jupiter's path across the sky (2)

❑ **^ V1272 CDTV-ED32 ADAPTATION** will help you make a lead so that you can use a CDTV keyboard on a CD32 machine.

❑ **^ V1273 AMICDROM v1.7** A CD-Rom disk filing system for the Amiga. It supports the ISO-9660 standard and will mount the drive as a dos device (e.g CD0:) You can even access files and directories on a CD.

❑ **^ V1274 KNIT v1.01** Converts an iff pic into a knitting pattern. **VIDEOMAKE 04.20**, A video database that satisfies all needs of a private video user. full OS 2.1+

❑ **^ V1275 RUSH v1.0** is a directory utility for AmigaDOS 2.0 or greater. It allows files and directories to be manipulated quickly and easily. **PEOPLESPY** What it offers you is the ability to compile a fair-sized family tree for your self. **AMABUSH** can be of used to developers, who may wish to test programs.

❑ **^ V1277 STAR STUDIO** Printer driver software for controlling any printer printer ect

❑ **^ V1278 MAIL-O-DEX** An excellent way to keep names, addresses, Phone numbers, & them print them out

❑ **^ V1279 PRINT-A-CARD** Want to print a business card or any other type of card then this is the software for you.

❑ **^ V1280 DIVIDEND WINNER & PERM CHECK** It is a pools prediction aid which will advise which numbers to enter on your coupon based on sequence prediction.

❑ **^ V1281 SMARTY PAINTS** The whole idea is for children to have a serious art package with usable & interesting facilities.

❑ **^ V1282 FOOTY v1.4** is a dedicated football database, sit back in your favourite chair with your mouse mat on your lap and keep track of whats happening in the football league

❑ **^ V1284 PC FORM LETTERS** Just load em into your fave WP and insert your own text. Contains 3 instant business letters!

❑ **^ V1286 PRINTER DRIVERS 7** Now also contains the program called sid for easy installation of the Printer Drivers.

❑ **^ V1287 LEARN IN SPACE** Let your younger children learn how to add, subtract while playing. Ages 4-7 years

❑ **^ V1296 EAGLE PLAYER v1.41** Is Germanys best selling module player. It supports over 80 music makers and trackers. (2)

❑ **^ V1302 XFH-HANDLER v1.34** is a DOS handler which uses a plain mac library to provide read/write access to files contained in a given directory or partition. All compression/ decompression is done automatically by the handler and the files are read or written.

❑ **^ V1303 SCALA SCANNINGS** Pictures are in f736x580 16 colour format for use with the program Scala. Theres about 15 pictures in total and are very sharp indeed. (2)

❑ **^ V1304 MUSIC MAKERS** Contains all the latest version of the OCC ermusic, Bars, the compiler, driver, assembler, linker, header files inline code generation of library calls. (3)

❑ **^ V1305 WEB-PROGRAMMING** Contains the Programming languages like, Ace, AmigaE, AmigaEdo, SBProlog, BCPL4AMI, EGUI, Pascal and others (3)

❑ **^ V1319 THE AREXX GUIDE** Full Amiga Guide document to teach you Arexx!! Flip filled with easy cross referencing

❑ **^* V1320 TERMINUS** Modem/Terminal program. Full featured scripts/screen modes/twerscon, all the popular protocols.

❑ **^ V1221 (AGA) BLANKER** BlitzBlanker for WB v3.x only if has 14 different blankers all ready to show off your AGA machine!.

❑ **^ V1222 PHOTOGENICS STUDIO** Special printer Preferences editor and driver system for all Panasonic 9 & 24 pin printers.

❑ **^ V1223 CANON STUDIO** Special printer Preferences editor and driver system for BJC 800&880, LBP A1, A2, BJC 800, BJS, 10, 20, 200, 230, 300, 130.

❑ **^ V1226 AMINATION & PAINT** Direct Action, Movie time animation player, QuickFlix a slideshow and cel animation, FreePaint

❑ **^ V1227 GADTOOLs** Contains a collection of shareded libraries intended to provide programmers with new GadTools

❑ **^ V1228 WB 3.0 UTLs 7** Contains another excellent helping of new utilities for WorkBench 2.0 and 3.0. Enforcer, A tool to monitor illegal memory access. Assign Manager, A new preferences item. PickFonts, Allows you to select a startup-sequence of your liking. Slide, A computer replacement for the of Post-It note.

❑ **^ V1229 (AGA) MAIN ACTOR v1.16** A modular animation system. Supports hardware, IFF-Anim 5/7/8, IFF AnimBrush, PCX, playing from Hard disk or play in a window. (2)

❑ **^ V1231 HD SOUND UTLs** Contains Sound, Voice, Midi Transactions. Also the intuition based music tracker that uses the internal sound capabilities of the Amiga. HD_Frequency, is a HD recording system enhancing sound quality. Also contains an A1200 specific

❑ **^ V1235 BLACKBOARD v1.0** is an image processor written specifically for the AGA chip-set machines. will load ILBM, IFF8, Sculpt4000 and you can Brush, Colour, Crop, Scale, Mapping, Edit, Rectangle, Change range also various Palette routines.

❑ **^ V1236 INVOICE PRINTER** Will print invoices using your own template or sort after. Ideally suited to a small business.

❑ **^ V1237 SUPERSPELL** A global spelling checker for use in any program you are typing under Intuition. Has word dictionary which you can edit, add, replace ect

❑ **^ V1238 KICKSTART SAVER v2.0** Functions include load disk df0:, df1:, load file, kickstart, workbench, Ram:, ect

❑ **^ V1239 SKICK PRO v3.43** is the replacement for Kickit, ZKick, and UKick ect intended for use on KS2.0 machines and its basis is to load any other version of kickstart into RAM. Emulated KS3.0 level ect.

❑ **^ V1240 SHOW STD v1.2** is a tool that can be used to show the area covered by a particular STD code on a map on the UK. Typing Tutors, is screen mode version of Typist.

❑ **^ V1241 THE PD OFFICE** is a little collection of wonderful utilities like EdWord-Pro, AddressBook, EasyCalc ect.

❑ **^ V1242 MASTER III** is a fast shareware disk optimizer for AmigaDOS.

❑ **^ V1243 IMAGE 2.0 OBJECTS** Volumes 4 to 7 packed to bursting point of images for use with TV Paint, Deluxe Paint, Photon Paint ect

❑ **^ V1247 TEXTURE MAPS** In 320x200 JPEG format for use with any rendering progrms, textures like Organic, Miscellanous, Sand, Stonewall, Water ect

❑ **^ V1250 SOLDERING** Contains many useful tools for drawing good quality circuit diagrams, and also weird-board listing board/ solder board/ component placer system.

❑ **^ V1265 DYNAMIC SKIES** A big textbook for astronomy that has, for an ultimate goal, to answer with speed any question that you might have about objects You can even animate Jupiter's path across the sky (2)

❑ **^ V1269 OCTAMED TUTOR** A simple guide through the basics of this excellent music composition program. OctaMED 3, xupwards

❑ **^ V1270 PRO BINGO** Brings all of the entertainment of Bingo to the computer.

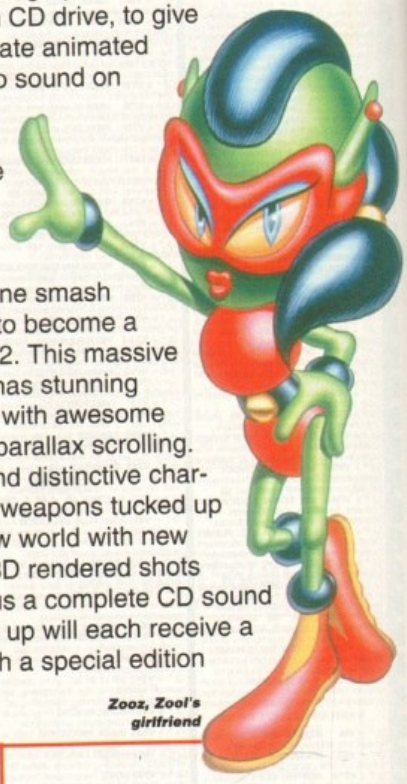
❑ **^ V1271 THE DARK ROOM** will help you learn how to develop films and print photographs. You can even animate Jupiter's path across the sky (2)

❑ **^ V1

Win an AMIGA CD32 and ZOOL 2 from GREMLIN

The Amiga CD32 is the machine for the ardent games player who may also want a full computer system as their needs grow. This superb system takes the best of 256,000-colour Amiga AGA graphics technology, adding a multi-session CD drive, to give potentially 600Mb of ultimate animated graphics and digital stereo sound on each optical disk.

If you're the lucky first prize winner you'll be able to test out your new machine with Zool, the Ninja of the nth Dimension and number one smash hit game, which is about to become a big hit on the Amiga CD32. This massive arcade adventure game has stunning and addictive game play, with awesome graphics and full-screen parallax scrolling. Zool is a totally unique and distinctive character, with a multitude of weapons tucked up his sleeve. There is a new world with new graphics, and there are 3D rendered shots throughout the game, plus a complete CD sound track. Four lucky runners up will each receive a copy of Zool together with a special edition Zool T-shirt.



Zooz, Zool's girlfriend

Enter this crazy competition today and you could win your very own CD32, together with a copy of the brand new CD32 version of Zool, plus a rather tasteful Zool T-shirt!

Question One – Which dimension is Zool from?
Question Two – How many colours are available with the CD32?
Tie Breaker – I drool over Zool because...

To enter, send your answers to these three simple questions and the tie breaker, on a postcard, to Amiga Computing CD32 Zool Competition, Europress Direct, PO Box 2, Ellesmere Port, South Wirral L65 3EA. Don't forget to give your name and address and let us know if you don't want to receive promotional material from other companies. Entries should arrive no later than May 31, 1994.

The prize winner will be drawn from all the correct entries received. Result information may be obtained by writing to our offices. The editor's decision is final. no correspondence will be entered into.

amiga First Choice public domain

THE ORCHARD, 139 HIGHRIDGE GREEN,
BISHOPSWORTH, BRISTOL BS13 8AB

PLEASE MAKE ALL CHEQUES AND POSTAL ORDERS PAYABLE TO:-
FIRST CHOICE P.D.

ALL ORDERS DESPATCHED FIRST CLASS. PLEASE REMEMBER TO ADD P&P CHARGES.
PLEASE STATE MACHINE WHEN ORDERING.
PD PRICES ARE PER DISK - NOT PER TITLE.
NUMBER OF DISKS (IF MORE THAN ONE) IS SHOWN IN BRACKETS.

FOR ALL ENQUIRES - MOBILE FROM 11AM TO 8PM

TEL: (0374) 446776

IF PHONE DOES NOT RESPOND DUE TO POOR COVERAGE - PLEASE TRY AGAIN LATER

ALL DISKS COMPATIBLE WITH ALL AMIGA`S

WHEN DISK K001 - DISKSTART V1.3 IS USED ON A500+/A600/A1200/A4000

GAMES

G010 - POM POM GUNNER - Great graphics in this operation wolf style shoot em up.
G011 - AIR ACE 2 - A great World War 2 shoot em up.
G013 - THE REVENGE - Play ED-209 from Robocop in this violent shoot em up.
G015 - MEGABALL - A game that has received excellent reviews.
G016 - SIMPSONS - Televisions wacky family brought to life in this shoot em up construction kit game.
G020 - LAME ST-PORTS - A space invaders type game, the object being to defeat Atari.
G021 - MASTER OF THE TOWN - The aim of this game is to cause as much damage as possible.
G025 - DRAGONS CAVE - A dungeon master style puzzle game.
G026 - DOWN HILL CHALLENGE - Good ski simulater.
G028 - PIPELINE - Classic game but too fast on A1200/A4000 due to superior processor.
G039 - SMURFHUNT - Plenty of gun power in this shoot em up.
G040 - PARADOX - Funky puzzle game.
G043 - WIBBLE WORLD GIDDY - A superb platform game. This is one of the best public domain games ever.
G047 - SUPER PAKMAN - If you like Pak games, then get this!!! The best version to date.
G049 - NEIGHBOURS - (2 disks) An excellent graphic adventure, probably the best ever in PD.
G049 - FIGHTING WARRIORS - Budget version of Streetfighter 2 with good graphics.
G050 - BOMB JACKY - The spectrum classic with vastly improved graphics and sound.
G055 - TEXAS CHAINSAW MASSACRE - Inspired by a true story.
G056 - 18 HOLE GOLF - The first ever public domain golf game. Great fun. (2 disks)
G057 - SPACE INVADERS 2 - A revised version of the classic game.
G059 - AMOS CRICKET - A good cricket simulater written in Amos.
G060 - TRON 2 - If you liked the original, then you can't miss this update. Faster and improved presentation.
G061 - ESCAPE - The aim of this excellent game is to run over tiles pushing specific ones down to open gates which allow you to reach the exit. Do it within a time limit to progress.
G062 - DR. MARIO - Similar to a NES game of similar name but better graphics.
G063 - ASSAULT - This average game involves you shooting all the characters that pop up in the windows.
G064 - DEATH BINGERS IN SPACE - A Xenon style shoot em up.
G065 - ZOMBIE APOCALYPSE - Good fun with lots of blood and guts.
G066 - STARIANS - Bizarre platform game.
G067 - SUPER SKODA CHALLENGE - A good game for up to four players with track editor etc.
G068 - PREMIER PICKS - Very unique football management game, very well presented.
G069 - BILLY BURGLAR - Dodge lights to escape from prison.
G070 - AMiGABOY - The n game Tetris is widely regarded at its best on the Gameboy. It has now been perfectly converted, with exact visual representation.
G071 - ACT OF WAR - A game of similar style to risk.
G072 - ADAMS FAMILY QUIZ - How much do you know?
G073 - PARACHUTE JOUST - Guide the skydiver to the ground.
G074 - CARD SHARP - Various card games.
G075 - JEWL - A brilliant game.
G076 - TOP SECRET - Sorry, can't tell you!!!
G077 - JELLY QUEST - This game by David McGuire was described by Amiga Power quote "it's a superior brand of PD puzzle game, and its looks can only be described as - dead lush!" It went on to receive a 4 out of 5 star rating.
G078 - VENUS INVADERS - Excellent new version of space invaders.
G079 - THE RIGHT WAY - A great lemmings clone.
G080 - SUPER PRIX - A birds-eye-view racing game.
G081 - PATIENCE - The best public domain version of this card game.

UTILITIES

U001 - THE ULTIMATE BACKUP DISK - All the very best public domain copiers including DCopy, Tetracopy and XCopy.
U013 - BUSINESS CARD MAKER - A utility that can give professional results for use with any printer.
U021 - SYSTEM X - A telephone directory on disk. It even dials the number!!!
U136 - 600 BUSINESS LETTERS - Over 600 letters of basic format ready for quick and simple modification in any word processor.
U139 - PRINTER DRIVERS DISK - An excellent selection of drivers to get your printer working perfectly.
U140 - LABEL MAKER - Excellent utility allowing you to make your own disk labels. We have added several fonts to give you more design options.
U153 - MULTIPLAYER - Can play virtually any type of music module.
U167 - WINDOWBENCH - A replacement for Workbench V1.3 in the style of Microsoft Windows.
U168 - GAME TAMER V2.2 - Loads of cheats (over 250) for use in many top games.
U176 - UNDERSTANDING AMOS - A very useful learning aid.
U178 - AGRAPH - Create all kinds of pie charts, bar charts and line graphs.
U179 - CLI TUTOR - Loads of hints and tips.
U180 - DISK OPTIMISER - Speeds up loading by up to 15 times.
U181 - FORMS UNLIMITED - Create your own invoices and other forms with this neat utility.
U183 - MAGNUM - Create your own disk based magazine.
U184 - EDWORD - Excellent text editor.
U185 - POOLS PREDICTION - If you need more help (or money) try this disk.
U186 - VMORPH V2.0 - Excellent utility that allows you to create morph/warp animation. Requires 1MB.
U187 - THE MENU DISK - If you are interested in creating your own compilations etc. then get this disk. Its perfect for added presentation.
U188 - CLUB LEAGUE - A utility that allows you to edit and keep track of your teams division and league status.
U189 - SCREEN BLANKERS - A disk packed with screen blankers.
U190 - THE LITTLE OFFICE - One of the best small business programs available at the moment. Very popular.
U191 - VOICE CLI V5.5 - This utility allows you to control CLI with speech.
U192 - ACCOUNT MASTER - Written in Amos this is a very popular business utility of excellent quality.
U193 - SOFTWARE LISTER - This program is designed to keep track of your software collection.
U194 - DISKPRINT V3.5 - An integrated database and disk label printing utility.
U195 - RACE V1.6 - A disk that will work out the chance of a horse winning a race.
U196 - DRAW MAP V4.1 - There are two versions, this is the 1MB version. It allows you to create 2D and 3D maps. Quote U296 for 2MB version, which comes on 2 disks.
U197 - FOOTBALL LEAGUE EDITOR V1.1 - As soon as the results come in, you can monitor your teams latest position.
U198 - GOLF SCORES V1.8 - It can record the results of every round you play, store them and give an overall electronic score.
U199 - ANTI FLICKER - An aid to stop the flicker in Hi-Res mode during some programs operations.
U200 - AMCASH BANKIN - If you have a small business, this program is the best of its nature and highly recommended.
U201 - PUNT PROGRAM - Another prediction aid for the horses.
U202 - MONEY MANAGEMENT - Home accounts package capable of handling up to 12 different accounts.
U203 - EASY CALC V1.0 - This spreadsheet is designed to be both very user friendly and fast. It has an excellent built in help system.
U204 - KEYBOARD TRAINER V1.1 - Best public domain typing tutor available at present.
U205 - M-CAD - Computer aided design program.
U206 - NO ERRORS - Hides the hard errors on disks making all your corrupt disks usable once again.
U208 - 203 UTILITIES - The most utilities ever available on a single disk.

UTILITIES

U209 - UNDELETE - This utility allows you to get back stuff that was accidently deleted from disk.
U210 - JOYSTICK TESTER - A brilliant joystick testing program.
U211 - RED SECTOR DEMO MAKER - A 2 meg version of the most popular utility ever!!! Create stunning demos/megademos/intros. The special thing is that it has been modified to work with the A500+ and even better the A1200. (2 drives rec. A1200)
U212 - AIBB V5 - A good diagnostic program.
U213 - SYS INFO V3.11 - A disk that will let you know the technical status of your machine.
U214 - ENGINEERS KIT - A diagnostic disk, specially suited for engineers etc.
U215 - DISK REPAIRERS - Will allow you to try and make all your unusable disks work again.
U216 - AMIGA DIAGNOSTICS - Solve thousands of amiga problems with this diagnostics disk.
U217 - LAST WILL AND TESTAMENT - Write your own will.
U218 - MUSIC BASE UTILITY - Store your record/video collection.
U219 - ERROR INFO - Gives you a list of all amiga error codes and their meanings.
U220 - PC TASK V2.02 - IBM PC emulater it allows you to run the majority of PC software with no additional hardware. Now supports VGA, EGA, CGA and MDA. (DV)
U222 - REPAIR-IT 3 - Contains a selection of disk and hard drive repairing utilities. Excellent for saving that vital file.
U224 - SPECTRUM EMULATER - This is the best and latest version of the most popular emulater for the amiga. There are 68020/030 versions for new AGA amigas.(2 disks)
U225 - STOCK ANALYST - This is a technical analysis and securities tracking program which calculates when to buy and sell shares.
U226 - ASTRONOMY V2.0 - A menu driven astronomy program that calculates information about the Sun, Moon and planets. Help disk.
U227 - MING SHU CHINESE ASTROLOGY - Will create horoscopes in seconds. The complete aid.
U228 - COLOURED ICONS - Transfer your disks into colourful, well presented works of art with this database.
U229 - KIDS PAINT - An art package simplified for the younger amiga owners.
U230 - STAR VIEW - This program is designed to show graphically the positions of the stars and planets from any part of the earth.
U231 - AQUARIUM - Turns your screen into an eye catching fish tank.
U232 - OCTAMED V2 - Latest version of the famous music package.
U233 - NUMPAD FOR A600 - A program that makes the A600 think its got a numeric keypad.
U234 - ADDRESS PRINT V3.1 - Very useful if you make regular postal correspondence.
U235 - IFF BOOT - Displays a picture whilst your hard disk boots up.
U237 - PAY ADVICE ANALYSER - A very useful program for keeping track of pay, tax and national insurance.
U238 - CANNON PRINT STUDIO - Got a Cannon printer? This disk is essential for brilliant results.
U239 - FANCY PRINTING DISK - Contains Banner, Graph Paper V1.2 and Disk Print V3.5
U240 - BBASEIII - An easy to use versatile, yet fully featured database. Greatly enhanced successor to bBase II.
U241 - ADM V1.01 - Flexable address database with loads of great features.
U242 - LITTLE TRAVELLER V1.1 - This utility shows a world map and allows you to select any country for travel information. It then zooms in giving a close-up map with more information.
U243 - BANNER MAKER - Create spectacular printed banners.
U265 - PROTECTION - Keep unwanted users from playing with your amiga.
U266 - PARBENCH - Link up two Amiga's and communicate with each other.
U283 - TEXTENGINE V4.1 - Sent direct from author Nicholas Harvey, this excellent program has all known bugs fixed. Has 36,000 word spell checker.

EDUCATION

E001 - TOTAL CONCEPTS
DINOSAURS - A book on disk appropriate for sensational Jurassic Park movie. Get it!!!
E002 - SCIENCE - Excellent learning aid to the difficult subject. (4 disks)
E003 - FRACTIONS AND SILHOUETTES - Good maths utility.
E004 - WORLD WAR 2 - Good history aid.
E006 - WORLD GEOGRAPHY - Very useful utility.
E007 - KIDS DISK 1 - Excellent reading utility.
E008 - LEARN AND PLAY 1 - For younger amiga users, very popular.
E009 - LEARN AND PLAY 2 - See above, usually ordered as a 2 disk set.
E010 - GCSE MATHS - Good, written by a teacher of the subject.
E011 - LANGUAGE TUTOR - French, Spanish, German and Italian.
E012 - AMIGAWORLD - This piece of educational software contains details on every country.

DEMOS

D004 - ARSEWIPE - Hilarious toilet role commercial.
D007 - FILLET THE FISH - Cartoon animation.
D019 - SIMPSONS SLIDESHOW - Pictures of televisions wacky family.
D023 - PUGGS IN SPACE - Another cartoon animation from the same person who brought you Fillet the Fish.
D025 - SAM FOX - Slideshow.
D035 - RUDE NOISES - Hilarious samples.
D036 - FAST CARS - Pictures of the worlds most exotic cars.
D074 - MADONNA LIKE A VIRGIN - Music put to naked slideshow of Madonna
D091 - SAFE SEX DEMO - Hilarious mixed samples.
D114 - NEIGHBOURS SLIDESHOW - Very old but still amusing pictures of the cast with drawn on special effects.
D121 - GIRLS ON FILM - Digitised animation.
D129 - SHOWERING GIRLS - Colour digitised slideshow.
D138 - WAR SIMULATER - Samples that could get you a day off school or work. Sounds of sickness and war. Try it down the phone!!!
D198 - BASIC INSTINCT - Digitised pictures from the film.
D199 - STRIP SLOT MACHINE

VIDEO ART

U026 - TV GRAFFIX - Loads of backdrops etc. for use with genlock. Also fonts for Dpaint. (2 disks)
U168 - HARLEQUIN VIDEO ART 1 - Excellent collection of backdrops of superb quality for use with genlock.
U171 - HARLEQUIN FONTS 1 - Loads of excellent Hi-Res fonts.
U172 - HARLEQUIN FONTS 2 - More of the above.

VIRUS KILLER

V001 - SUPERKILLERS - Highly recommended as it could save you ££'s. Essential for hard disk owners. With no virus protection you are putting your entire software collection at risk. Regular updates to keep in touch with all virus activity. Separate versions for AGA machines.
All our disks are virus free.

MUSIC

MD01 - MUSIC MODULES - A massive 10 disk collection of good quality music modules. All of soundtracker file type for use with RSI Demo maker, Noiseplayer and many other applications.

AGA SECTION

A019 TO A023 - WEIRD SCIENCE - Excellent quality pictures. (5 disks - available separately)
A024 - FIT CHICKS - A collection of girly pictures for the A1200 only. (2 disks)
A025 - FREAKS BODY SHOP - A small selection of girly pictures.
A030 - FERRARI PICTURES - Pictures of a new model from the worlds most exotic car maker. Good 256 colour pictures.
A036 - NIGHTBREAD - Many pictures drawn in 256 colours. (2 disks)
G042 - AGA TETRIS - Controled with the cursor keys, this excellent conversion of probably the most addictive game ever is now available with 256 colour graphics.
G082 - AGA CHESS - An excellent game but you will need 4mb of ram to get it to work!!!
U001 - ULTIMATE BACKUP DISK - This compilation includes DCopy V3.0 which is probably the only copier that works successfully on the A1200/A4000.
U123 - WORKBENCH HACKS - Many useless special effects for workbench V3.0
U118 - MORE WORKBENCH HACKS - Guess what?
U255 - WB V3.0 INSTALL - If you need to install your hard disk then you need this.
U256 - A1200 DEGRADERS - An essential purchase for AGA owners. Includes Fake Fast Mem, The Degrader, Diskstart, Kill AGA V2 and Helpful hints.
U257 - VIEWTEK V1.03 - An essential purchase allowing you to display AGA graphics.
U258 - HDMEM - This utility allows your AGA machine to use your hard disk as virtual memory. If you've got a 80mb hard disk then you can have 80mb ram. Requires FMU, MMU etc.
U272 - WORKBENCH V3.0 SCREENS - Improve the appearance of workbench with these excellent backdrops.
D181 - TEAM HOI PLANNER GROOVE - This was the worlds first ever AGA megademo.
D195 - PANTARHEI - A new AGA megademo. With amazing sound, graphics and colours.
D197 - TEAM HOI 2 - Sequel to the first ever megademo.

ABOVE DISKS WORK WITH A1200/A4000 ONLY.

ASSASSINS

THE EXCELLENT VALUE
ASSASSINS GAME COMPILATIONS
TO ORDER QUOTE ASI AND DISK NUMBER.
OVER 135 NOW AVAILABLE.

FONTS

WHY PAY MORE THAN £3.00 FOR FONT DISKS WHEN FIRST CHOICE SUPPLY EXACTLY THE SAME FROM JUST £0.89 !!!
FONTS AVAILABLE IN ADOBE TYPE 1 TESTED ON FINAL COPY IIB + PAGESTREAM V2.1 AND SCALABLE FORMATS TESTED ON PROFESSIONAL PAGE V3.0 + PAGESETTER V3.0.

FD01	FD02	FD03	FD04	FD05	FD06
FD07	FD08	FD09	FD10	FD11	FD12
FD13	FD14	FD15	FD16	FD17	FD18
FD19	FD20	FD21	FD22	FD23	FD24
		FD25	FD26		

REMEMBER TO STATE SCALABLE OR ADOBE

EACH DISK CONTAINS AN AVERAGE OF 17 DIFFERENT FONTS. BELOW IS A RANDOM SAMPLE OF FONTS FROM DISKS FD01 TO FD04.

NORMAL DISK PRICES APPLY
ALL 26 FONT DISKS FOR JUST £25.81

AachenBold AARCOVER
BauhausBold Anqm
BILLBOARD Chicargo Arctic2
AvantGarde Cartoon
Architect CaslonOpenface

A SMALL SELECTION OF FONTS FROM SETS 1 TO 4

DISK PRICES AND POSTAGE RATES

SINGLE DISK £1.85 INCLUSIVE P&P
2 - 15 DISKS ONLY £1.25 EACH
16 - 25 DISKS ONLY £1.00 EACH
26 + DISKS ONLY £0.89 EACH

POSTAGE IN UK £0.80 PER ORDER
P&P FREE ON SINGLE DISK IN UK ONLY
EUROPE +25p DISK (MIN £1)
WORLD +45p DISK (MIN £2)

BATTLEAXE (0603) 666202, 662066

Public Domain & ShareWare

Suppliers of Public Domain & ShareWare throughout the world for years.

Over 30,000 customers worldwide. Over 3000 disks, also complete Fred Fish library + TBAG and more

NEWSFLASH FREEWARE

We are official distributors for these incredible titles:

NF1: UTILITIES 1... Amiga Monitor, Big Anim, Mandel Mania, MultiTool, TGA2IF, WB Verlauf and more

NF2: UTILITIES 2... 60hz Emulator, copCollEd, Kit Cat, Quicktools, Strings Release, Cat Edit, Fast Par and more

NF3: MUSIC 1... Rasterman, Drum It, Love & Pain, Tangled, Hit IT, Crystal Rain, Charming But Drunk

NF4: DEMOS 1... Interference Demo, Kid Demo

NF5: ART 1... Lorenzo Collereta 1: Creating II, Dreamboat, Welcome, Museum and more

NF6: ART 2... Nocentinitziano 1... Music Dream, My Objects, Spiral, Tizy, Volkswagen

NF7: MODULES 1... Agrometrical Dream, Air, AJ Parker, A Born, Amelioration, A new guy in Town, Behind the Walls, Between, Captivated, Celtic

NF8: MODULES 2... Boombass, Celstrial Music, Chicago, Cold, Command, Cool Crazy Comets, Cream of the Earth, Data Trains

NF9: MODULES 3... Down, Deep Water, Deliance, Dense, Domination

NF10: MODULES 4... Diner, Doity Flower, Dream, Erano, Exodux, Experiment, Expressions

NF11: MODULES 5... Fletch, Funeral, Funny 1 & 2, Go with Me, Helica, High Density, Hysteria, Klaje

NF12: MODULES 6... Funny 4, Game Over, Jumping Jack, Like a Bird, London Flight, Lonely, Massacre, Met the Traveller, Moon

NF13: UTILITIES 3... Addtolls v1.11, MPeg Play v1.03, IFF2ICON v1.0b

NF14: UTILITIES 4... Alert Patch 2.19, Assign Manager v1.02, Crunchmania v1.91

NF15: UTILITIES 5... DOST race v2.10, Intel Inside Trashcan, Title Clock v2, Scheduler v1.0

NF16: UTILITIES 6... MandelBrute v1.2, Promoter v1.8b, Syslog v1.7, TWC v3.23

NF17: MUSIC 2... Real Motivation, Heaven, Over the Moon, Dance, Orange, Negative

NF18: MUSIC 3... 1993, Alien, Bosvedjam, Elimination, Lizard Theme

NF19: MUSIC 4... Blind, Desert, Game Tune iv, Gluther+

NF20: ART 3... Oliekamp, Ballgame and Warnpie

NF21: ART 4... Earth, Fountain, La Patente, Tempio and more

NF22: GAMES 1... Last Tetris, Wabes, Mine Sweeper

Games

1538 Act of War ..... Strategic game
1212 AGA Chess ..... The best req 4Mb
1537 Air Traffic Control ..... Land planes
1155 Antep
1500 Arcade Classics 1 ..... Various
1501 Arcade Classics 2 ..... Various
941 Atic Atac ..... Like the Old Speccy
1251 Backgammon ..... The board game
1154 Battle of Britain & War
1252 Battlecars II ..... Stunning Simulation
953 Battlements ..... Like HunchBack
1052 Beast
1541 Blackjack Lab ..... Great card game
1510 Boulderdash ..... Dodge them Bricks
954 Cluedo ..... Yes that's right
1539 Coindrop ..... Fruit Machine sim
1254 Crazy Sue II ..... Brill Platform
1056 Crossword Creator ..... Great Fun
942 D-Tris ..... Tetris clone, great like rest
1576 Deluxe Pacman ..... Best Pacman
1253 Desert Storm
1188 Downhill Challenge ..... Ski-ing
1131 E-Type II ..... Great Shoot-em-up
1092 Escape v3 ..... Platform Type Game
1536 Extreme Violence ..... Violent
1577 Fighting Warriors ..... S/Fight
1153 Flag Catcher ..... Great Game + Anim
1175 Full House ..... Card Game V Fun
1503 Grand Prix Manager ..... Race Cars
1150 Hellzone ..... Brill Shoot-em-up
920 Hollywood Trivia ..... Questions!
955 International Cricket
1296 Intruder Alert ..... Shoot-em-up
1172 Leedings ..... Like Lemmings
1578 Mad Bomber ..... Mad Game
1157 Mashie Niblick Golf ..... Golf
957 Maths Adventure ..... Education
1189 Megaball ..... Fantastic
1106 Mental Image Games 1
1107 Mental Image Games 2
915 Missile Command ..... Old Favourite
1570 Moria v5.4 ..... Adventure Game
1650 Mouse Drive ..... Sim to SuperSprint
1295 Nostromo Game Cheats
1297 Numerix ... Like Scrabble but numbers
1152 Numpty & Alien Invaders
1250 Peter's Quest ..... Adventure
1255 Pipe ..... Like the classic
956 Pipeline ..... Again
1190 Puggles ..... Enjoyable Platform Game
1055 Quadrix ..... Puzzle game
1057 Questiontort
1670 Road to Hell ..... Great car Action
917 Rollerpede Invaders
1205 Sanity ..... Great Arcade Shoot
934 Scrabble ..... The original
1151 Serene III ..... Shoot-em-up
1526 Smurf Hunt ..... Smurfs
1540 Soccer Cards ..... Football Man
908 Star Trek, 2 Disks ..... The best
1508 Super Space Invaders
1050 Survivor ..... Strategy
909 Tanx ..... Blow up tanx, 2 player
948 Tetren ..... Tetris Clone, best
922 The Simpsons ..... With Bart
926 Think Twice ..... Mastermind
951 Total War ..... War Game
1177 Turbo Thrust ..... Classic
931 Wacko Jr Wonderland
925 Wizzy's Quest ..... Platform
1187 XFI & Hball ..... Blockout
919 Zeus ..... Great Puzzle Game

Education

1579 Agraph V2 ..... Create Graphs, Save IFF
1566 Algebra ..... Learn Algebra
1555 Amiga Tutorial ..... Tutorial for Amiga
1527 Amiga World ..... Details all major Countries
1058 Amigazer ..... Space enthusiasts
1168 Colour the Alphabet ..... For little kids
1507 Division ..... Aids Kids with Division
1159 Dunks DTP ..... Allows kids to print text & pics
791 Family History Database ..... Details
1287 Fireworks Alphabet ..... For kids
1531 Fractions ..... Aids Kids with Fractions
1509 GCSE Maths ..... Maths Tutor
1101 Henriettas Book of Spells ..... Great
1104 Hooray for Henrietta ..... Great
1514 Kids Paint ..... Kids Paint Proggy
711 Learn and Play (2 Disks) ..... Games for kids
957 Maths Adventure ..... Adventure in Maths
1580 Maths Drill ..... Mathematics Aid
1557 Maths Reflex Test ..... Test Your IQ
1504 Maths Wizard ..... Mathematics Aid
1581 Pair It ..... Game for Kids
1160 Simon & Space Maths ..... 2 games for kids
1158 Story Land 2 ..... A Story for Kids
1543 Total Concepts Astronomy ..... Brill
1542 Total Concepts Dinosaurs ..... Lots info
1169 Treasure Search ..... Basic Map skills
797 Typing Tutor ..... Try typing
1582 World War II Facts ..... Interesting
1583 Fast Facts ..... Info on our Universe

A1200/4000

1534 Action Replay IV ..... Ripper, Monitor
1553 A1200 Degraders ..... Degrades your 1200
1325 PC Task v2 ..... Runs IBM Software
1546 Hois AGA Megademo ..... A great demo
1547 Hois AGA II Megademo ..... The Sequel
1212 Uchess 4Mb ..... Great Graphics 4Mb
1308 WB3 Backdrops ..... Backdrops for WB
1573 Dos Drivers ..... Various Dos Drivers
1588 Viewtek Latest ..... Great Pic Viewer
1554 WBVerlauf V2 ..... Rainbow Workbench
1584 Spectrum Emulator 1.7 ..... Sinclair
1283 The Disk Util ..... Formats, Copies
1215 AGA Pics 1, 24-bit graphics ..... Pics
1216 AGA Pics 2, 24-bit graphics ..... Pics
1217 AGA Pics 3, 24-bit graphics ..... Pics
1218 AGA Pics 4, 24-bit graphics ..... Pics
1210 Wimblend ..... Fractal Generator
1300 HD Prep ..... Configures 1200 HDrives
1214 Jpeg Utils ..... Utils for JPeg Pics
1317 MSM 1.8 ..... Brilliant System Monitor
1219 Battleaxe A1200 Utils #1 ..... Utils
1585 Battleaxe A1200 Utils #2 ..... Utils
1586 Battleaxe A1200 Utils #3 ..... Utils
1587 Battleaxe A1200 Utils #4 ..... Utils
1600 Mandelmania 4 ..... AGA Fractals
1601 Klondike AGA (3 disks) ..... Great Card Game
1603 Motorola Invaders 2 (2 disks) ..... Great Invaders game
1604 Technotraks 2 ..... Rave Demo
1605 No Point of Sale ..... 1200 Specs Demo
1606 MagicWB ..... Create a stunning WB Setup
1651 2 Explicit Demo ..... AGA Demo
1653 Virtual Journey AGA ..... AGA Demo
1656 Origin AGA Demo (2 disks) ..... Great 3D action

AMFM Magazine

Amiga Musicians Freeware Magazine

The worlds number 1 music magazine.

Comes on disk, full of the latest gossip, utils, music both MIDI and Amiga only. If you are interested in music then you simply can not miss this.

Issue 16 – £2.50

All back issues available, please ask.

Catalogues

Battleaxe Catalogue – £0.50

Fred Fish Catalogue – £0.50

We stock Fish 0-900+

Latest UGA Freeware Titles

LATEST NEWSFLASH FREEWARE

NF DISK 23 (ART 5) Jan Visscher 2
Modern Art, Simple Vision and Strange Place (HAM8 Pictures)

NF DISK 24 (ART 6) Lorenzo Collereta 3
BodoBrain 2, Drawing Hands, Man 2, Snake 2, Timepasses 2, Tanx 2 & WoodFishes

NF DISK 25 (MUSIC 5) S. Hannula 1
50 feet, close to 115 & Lion Rock

NF DISK 26 (MUSIC 6) M. Berthaud 1
Extemporized, Jump 4 Joy, Sonic City, Sweltering & Breakdown

NF DISK 27 (MUSIC 7) J. Valenkamp 1
Basix, HiScore, Just Something, Possibilities, StarDust & Guitar solo

NF DISK 28 (DEMOS 2)
RB1200, Mindriot & Intern

NF DISK 29 (UTILITIES 7)
ABackup v4.03 - ABCDirectory v3 - AssignManager v1.24 - AZap v2.10 - BootMan v1 - FileSystemInfo v1.1 - The Utility Pack #1 - MouseShift v2.1 - Packit 37.100 v1 - VCLI V7.04 - ProcurePens & Setpens - Screen Color Requester

NF DISK 30 (UTILITIES 8)
ACalc v1.21 - ADoc2 v3.05 - CDTools v1 - Columns v2.6 - Filex v1.1 - PPrefs v1.1

NF DISK 31 (UTILITIES 9)
BootMan v1.1 - DiskSalv v2 - HFX 39.45 + 38.30 - MegaView v2 - StoneCracker v4.10

NF DISK 32 (UTILITIES 10)
AmiFlick v1.10 - CloseWB V1 - EdWord v4.1 - Inf v1.32 - LibraryTimer v1.1 - PMonitre v1.1 - PowerSnap v2.2 - Promotor v1.9 - PS V1.34 - Scheduler v1.3

AMFM Samples

These sample disks are of excellent quality, they are £2.50 each and are produced by artists themselves.

Sample Disk 1
45 drums & percussion sounds from a Roland PCM Sound Card.

Sample Disk 2
58 orchestral winds including flutes, brass, saxes, trumpets, brass chords and ethnic winds.

Sample Disk 3
30 atmospheric non-instrumental death & horror sounds.

Sample Disk 4
32 selected lead & bass sounds from the Korg 707 Synthesiser.

Sample Disk 5
16 rich, full and dynamic grand piano sounds including chords. The best piano heard on an Amigal

Sample Disk 6
48 characteristic samples taken from a Korg Wavestation. Mostly Lead bass etc.

Sample Disk 7
53 characteristic sounds taken yet again from the wavestation. Lead/bass effects.

Sample Disk 8
46 chords sampled from the Korg Wavestation, pads, choirs, synths, major, minor, sus2 etc.

Sample Disk 9
Korg M1 drums, 84 drums percussion sounds from the Korg M1 Synthesiser. All standard drum sounds, with hits, lasers, etc.

Sample Disk 10
A collection of ambient and hard hitting sounds created on the Korg Wavestation. Rave away.

Sample Disk 11
More ambient, hard hitting rave techno sounds, Great stuff.

Sample Disk 12, 13, 14, & 15 Available also!!!

AM/FM magazines are also available from BPD. And special disks, look at AM/FM box.

Modules

We have 30 disks full of great music modules to be played in MED or other music packages. Over 100 in fact, ranging from rave to slow melodies. All 30 disks £25 or £1.50 each.

Order

Mod # *(# being 1-30)*

Business

1061 600 Business Letters ..... Yes 600
1556 Account Master ..... Keep up to date finance
1579 Agraph V2 ..... Create Graphs, Save IFF
893 Amibase Pro ..... DataBase, Store Info
895 Amicash ..... Business Tool
800 Bankin ..... Business Tool
1551 Bbase III ... New Database, support Mail Merge
796 Business Card Maker ..... Create B Cards
1589 LCD Calculator ..... Great Kids Calculator
799 Clerk ..... Accounts Package
839 DTP ..... Desktop Publisher
1562 File-O-Fax ..... Keep in Track, Organise
898 Flexybase Database ..... Another
780 Forms Really ..... Create Forms of all type
1515 Illinois Label Printer ..... Print Labels
1572 Invoice Printer ..... Prints Invoices
897 Last Will & Testiments ..... Examples
1164 Little Office ..... WPro, DBase in one
1124 Nag Diary ..... Great Diary, reminder
1523 Pay Advice ..... Business Tool
709 Spreadsheets ..... Table Sheet Calculation
1568 Text Engine 4 ..... Text Editor
1320 Text Plus 4 ..... Another good Text Editor
716 Wordwright ..... Word Pro

Misc/Utils

1552 A500 Plus Emulator ..... For WB1.3 users
1556 Account Master ..... Keep track of finance
1411 Amiga Guide v3.43 ..... The latest distribution
1560 Amos Compiler Update 1.36 ..... Update
1561 Amos Updator 1.36 ..... Update
1003 Assassins Megaboot ..... Create great Bblocks
1042 Astro 22 Space ..... Astrology proggy
1528 Banner ..... Create great looking banners
1562 Benchmarks the Best ..... Test Amigas
1310 Cdisk, Hdrive compress ..... Like Dblspace
1550 Dcopy 3.1 ..... Great disk copying program
1403 Disk Salv 2 ..... Repairs bad disks
781 Dynamite Fonts 1 ..... Dpaint Fonts
782 Dynamite Fonts 2 ..... Dpaint Fonts
1002 Essential Utils III ..... Plenty Utils
1512 Fast Cache HD & FD Cache ..... Yes
1531 Fractions ..... For the kiddies
1535 Game Tamer 4.01 ..... 400 Game Cheats
1563 Gold Ed V.94 (2 Disks) ..... Great Editor
1519 Hybrid Instruments ..... Some great noises
1301 Imagine Objects ..... Ray Trace Objects
1124 Le Nag ..... A diary, reminder program
1506 Lockpick 2 ... Copies games, removes protection
1001 Med v3.2 ..... Great Music Creation
761 Mega Utils ..... Some great utils
1564 Mr Backup ..... Hard Drive Backup proggy
1502 Ncomm v3 ..... Great Terminal Program
704 North C ..... C Compiler
1511 Octamed ..... Like MED, with 8 Channels
1038 Picbase ..... Picture Storing DataBase
1059 Picture Converters + ... Graphic Converts
1565 Plasma Clouds AGA ..... Create Plasma
1571 PPshow Latest ..... Graphic Viewer
1284 Propage Utils & Genies ..... Handy indeed
1266 Protracker v3.01 ..... Music Tracker
1525 Reorg Latest Ed ..... Optimise your Disks
1568 Dice C V2.06 (2 Disks) ..... C Compiler
1400 Superdark v2.01 ..... Screen Blanker
1329 Supersound II ..... Sound Manipulation, sampler
1408 Term v3.4 (2 disks) ..... Best Terminal Proggy
1413 Terminus ..... Another Terminal Proggy
1564 Tools Manager Latest ..... Add menus to WB
1530 True Ed 5.5 ..... Great Text Editor
1178 Twin Express ..... Amiga>PC>CD32, 2 Disks
1566 V Morph ..... Create Morph Anims
1191 VCR Filer ..... A Dbase for Videos
1567 Virus Checker v1.33 ..... Don't Suffer
1610 Xbeat Pro V1.3 ..... X-lent Drum Sequencer

LOOK AT OUR GREAT PACKS ON THE NEXT PAGE

All disks are Virus Free, Error Free, No quibble replacements

Ordering Info

Ordering couldn't be simpler, phone us with your order stating disk numbers, or post your order to us. Don't forget to add P&P per order. Make cheques and postal orders payable to "BATTLEAXE"

Disk Prices

Disks £1.50
£1.25 for 10+

All disks are £1.50 from BPD, if you order over 10 disks then disks are £1.25

Postage

Please add the following postage on top of your order

£1.00 UK & CI
£1.50 Europe
£3.00 ROW

Personal Details

Access VISA

Unit D5, HI-TECH HOUSE, BLACKFRIARS STREET, NORWICH, NORFOLK NR3 1SF

Simply phone your order through, ACCESS, VISA taken. (0603) 666202, (0603) 662066

CD Exchange

Enjoy Arcade Quality Games. Discount on all CD32 titles and hardware to members, JOIN NOW.

JOIN 'THE No.1 CD32 USERS GROUP FOR ONLY £9.99' NOW!!

UNIT D5, HI-TECH HOUSE, BLACKFRIARS STREET, NORWICH NR3 1SF

And soon you will be able to watch CD films

Plays your Favourite CD Albums

VIDEOCREATOR – Professional Music Video creation
Take your Music To Another Dimension

What Do Your Music CD's Look Like? Boring Plastic Disks! Wouldn't it be great if you could enhance your own music CD's with breathtaking images and animations, combined with state of the Art special effects timed perfectly with the Music? Using the Amazing 32 bit power of Amiga CD32, Video Creator makes all this, and more, easily possible. Along with video creator comes another package - Random Raves, which gives you the power of video creator, but under computer control, just sit back and watch. Include Over 1000 Images - Multitude of Slick Professional Effects - Psychadelic colour changes with PsychoCycle - Easy to use mouse controlled editor - "Remix" VideoCD music Videos (Requires Video CD Adaptor).

£39.99 to members

KEYBOARDS

Adding a Keyboard to your CD32, will open up another Dimension in communicating with your CD32. Programs that require you to type will now function correctly. Please phone us today for a great price and friendly help.

DATA TRANSFER PORT

The Data Transfer Port gives your CD32 a serial port. Which means you will be able to use devices such as – Modems – Serial Printers – Midi Interface and much more. It is possible to link your CD32 to an Amiga Computer for Transferring files with this if you gain the correct Software. Phone now for details.

£21.50

FMV 'Full Motion Video' Adaptor

Allows you to watch CD Films on your CD32. Now your CD32 is a Complete all in one Home Entertainment Unit. CD Films available now!!

Phone now for great price

Tel: (0603) 666202
(0603) 662066

Access — We Accept Payment by Access/Visa — VISA

CDUG's Member's Benefits

- All members receive Mystery Gift
- Members get great discount on all software and hardware
- Members swap shop scheme
- Information on all latest games and hardware
- Monthly newsletter with reviews, charts, gossip and great competitions
- Great bargains you just can not miss
- Win latest hardware and software titles

ALL THIS FOR £9.99

VIDEO CD's, KAROAKE CD+G, CALL US NOW

CD EXCHANGE 24HR HELPLINE

CD EXCHANGE has a Computer available to you 24hrs a day. It will give or fax you everything you need to know - Release dates/Prices/Game Reviews/Tips/News/Info on Swapping and much more

Call NOW! 0603 261060

Let our Computer Talk to you NOW!

Join NOW, Prices are for members only. To join call our number now on 0603 662066 or 0603 666202

CD Exchange Vol. 1	Call
Project X/F17 Challenge	£19.99
Alien Breed/Qwak	£19.99
Bubba 'n' Stix	£23.99
Nick Faldos Golf	£28.99
Chuck Rock	£12.50
Super Putty	£12.50
Disposable Hero	£22.49
Games 'n' Goodies	£16.99
Elite II	Call
CDPD II/CDPD III	£17.49
Degeneration	£23.88
Sensible Soccer	£18.85
Deepcore	£19.45
Pinball Fantasies	£24.88
James Pond 2	£23.88
Now that's what I call Games	£16.49
Now that's what I call Games 2	£16.49
Sleepwalker	£23.88
Whales Voyage	£23.88
Overkill/Lunatic	£23.88
Zool	£23.88
Trolls	£23.88
Morph	£23.88
Ryder Cup Golf	£23.99
Lotus Turbo Trilogy	£26.55
Dangerous Streets	£23.88
Microcosm	£38.49
TFX	£27.99
Prey	£23.99
Labyrinth of Time	£19.99
Jurassic Park	£27.99
Syndicate	Call
Alfred Chicken	£19.99
Karaoke Titles	Call
Chaos Engine	£19.99
Humans 1 & 2	Call
Pirates Gold	£23.99
Wing Commander	Call
Defender of the Crown	Call
Chambers of Shaolin	£20.99
Jambala	£20.99
Dennis	£16.49
Fireforce	£22.49
Seek & Destroy	£19.99
Surf Ninjas	£22.49
Donk Special Edition	£22.49
Genesis	£22.49
Summer Olympics	£23.49
Super Methane Bros	£22.49
Keyboard CD32	Call
CD32 – Amiga interface	Call
CD32 to Scart	Call
Earphones	Call
Storage1	Call
Trivial Pursuit	£22.49

Forthcoming Titles from C.D.U.G.

Great Money Saving Packages

All 16 packs work on all Amiga's

Fantastic Clip-Art

Both of our Clip-Art packs are of very high quality. Both on screen and printed output. Can be used by all Desktop Publishers & Art Packages and come with an installation program which is fool proof. Allowing you to install them to both floppy and hard drives.

Pack 1 **£9.99**

A vast amount of Clips covering Buildings, Foods, Advertising Aids, Aircraft, Humour, Cooper Graphics, Animals, Birds, Love, Holiday, Girls/Woman, Assorted/Misc, Automobiles and Business

Pack 2 **£9.99**

A vast amount of Great Clips covering Education, Fantasy, Plant/Flowers, Old Antique, Medical, Science, Space, Camping, Father Xmas, Sport, Trains, War, Recycling, Sailing and Boating

Scalable Fonts

We have 400 scalable fonts, split into 4 packs for £9.99 each. That's 100 scalable fonts for £9.99. they can be used with all DTP's that support Adobe Type 1 Fonts. Please ring if interested in Compugraphic.

Pack 1 **£9.99**
Pack 2 **£9.99**
Pack 3 **£9.99**
Pack 4 **£9.99**

We do not have enough room here to show you all these great looking fonts, which is a pity, but if you have a fax machine we will be delighted to fax you a complete sample now! Or send you details. Just phone and ask for details.

Games Games

The best games collection, includes Arcade, Board Games, Mind Bogglers, Beat Um Up's, Shoot Em Up's, Boulderdash type, Car, Plane, Cards, Education and More. This pack is updated as new software arrives, therefore we can not supply listings of contents here! Phone.

£7.00

Desktop Video

For all you Steven Spielberg's to come, this pack is for video enthusiasts if you have not already noticed. Video titlers, special graphic effects, tests and more. Comes with added bonus of backgrounds & video fonts and a special database for storing your video collection on.

Cut! £7.00

'C' Programmers

This pack is unbelievable value. It is a complete manual on using the language 'C', far more in-depth than any book. It come with over 70 on-disk examples ready for you to run (no typing them in first). Covers Screens, Windows, IDCMP, Gadgets, Graphics and much more, 12 chapters in all. You also get a complete 'C' compiler chucked in ready for you to compile your programs.

Great Value! £9.99

Education

Want to educate yourself, or others. Children or adults, both catered for. Includes – Spanish, German, French, Japanese, Maths, Science, Astronomy and much more.

£7.00

Office/Home Business

You run a small business? Or simply want to keep up to date with your finance? Write letters? Accounts? Well here is your answer. Complete business package all in one. Contains the best word processor, spell checker, database, spreadsheet, account package, graphs and more

all for £7.00

Emulators Pack

Emulate other computers such as Commodore 64, Spectrum 48k, IBM PC and more by using your Amiga. Play Atic Atac on the Spectrum. Word processors on the IBM etc. Full instructions.

£6.00

Compatibility

Lots of useful utilities to downgrade your machines to Workbench 1.3. Cache off, reduce disk drives. Fixes messy demos to work on A500 Plus and 1200/4000 etc. If this won't, nothing will.

£5.00

A1200/4000 AGA

A package for the lucky owners of an AGA machine such as Amiga 4000 or Amiga 1200. Includes great demos, 24 bit pictures. Some specific 1200/4000 utilities and loads more.

£7.00

Introduction

A package based at people who are new to PD. Gives you a taste of the following: copiers, demos, music, games, utilities and toys, graphics utilities & more.

£5.00

Technostyle

If you are into Rave/Techno style tracks then you will N-Joy this package. It contains a music program (MED) and comes complete with great Rave/Techno tracks for you to listen to, but not only can you listen to them, you also get lots and lots of Instruments, Beats, Vocals, Bass and more. BE YOUR OWN MC. Create your own tracks. Record them onto your tapes.

Make some noise! £7.00

Access

VISA

Personal Details

Name_____

Address_____

_____

_____ Postcode_____

If ordering by credit card then simply telephone (0603) 666202 or (0603) 662066 and our staff will take your details

BATTLEAXE *Unit D5, HI-TECH HOUSE, BLACKFRIARS STREET, NORWICH, NORFOLK NR3 1SF*

Tel: (0603) 666202, (0603) 662066
Evenings & Weekends: (0603) 261060

THE PROFESSIONAL STANDARDS FOR DISTRIBUTION
ENDORSED BY COMMODORE UK

DISKOVERY

TEL: 0274 880066

UNBELIEVABLE GIVEAWAY

1. BUY 10 PD DISKS & GET A FREE 10 CAP BOX WORTH £1.99
2. BUY 15 PD DISKS & GET A FREE MOUSE HOUSE WORTH £2.50
3. BUY 20 PD DISKS & GET A FREE MOUSE MAT WORTH £2.99
4. BUY 25 PD DISKS & GET A FREE DUST COVER WORTH £3.99*
5. BUY 35 PD DISKS & GET A FREE JOYSTICK WORTH £6.99
6. BUY 50 PD DISKS & GET 10 FREE PD DISKS WORTH £9.90

* DUST COVERS TO FIT A500/A600 & A1200 ONLY, ONLY 1 FREE GIFT PER ORDER

CENTRAL LICENCEWARE

EST 1991

DEMOS

D1....Mental Hangover
D2....Intercepter Demo
D4....Wild Copper
D10...17Bit Music Demos
D11...World Demos 21
D13...Total Remix Demo
D14/15...Predators(2)
D20/21...Red Sector(2)
D24/25...New Tek Reel3(2)
D26...Total Remix 2 Demo
D27...T.V. Theme
D30...Epic Demo
D34...P.D. Collection
D36...Virtual Worlds
D37...Vectra Sinking Demo
D38...TFF Demo Voyage
D40...Safy Demo
D59...Video Effects 3D
D64...Cult Vector Dance 2
D68...Phenomena Demo
D70...Amos 3D Demo
D74...A Trip To Mars
D76...A2000 GenlockDemo
D81/82...Budbrain 1 (2)
D83...Budbrain 2
D85...Crionics Neverwhere
D87...pirhana demo
D101..Alcatraz M/Demo 3
D102..A Chaplin Demo
D103..Total Destruction
D105..Mr B Demo Comp 4
D106..Walter S.T. Demos
D111..Defcon 1
D117..Aurora M/Demo
D118..Cult M/Demo 2
D125..Precise Demo
D133..Fasination
D136..Goldfire Megademo
D137/138..So What (2)
D139..Devils"No Reality"
D144..The Silents "Ice"
D145..Crystal Symphonies
D148..Ray Of Hope 2
D149..No Brain No Pain
D158/159.Cyborg Demo(2)
D195..Couxial Comp
D197..MC Disk 1 Coma
D199..End Of Century 1999
D206..Dreamers 3
D208..Avengers M/Demo
D216/217..Bass o Matic (2)
D218..Disorder Demo
D219..Tuff Enuff
D225..Cool Fridge Demo
D226..Hardcrack M/Demo
D233..Hypnautic Hammer
D235..Six Of One Demo
D238..Planetside
D239..Lemmings Revenge
D240..Total Respray
D243...Budbrain 3
D244..Phenomena Inerspace
D245..Total Retrial
D247..Pulling The Trigger
D253..CES Demos
D256..Total Recount
D257..Total Rebate
D262..Spasmolytic
D264..D-Mob M/Demo
D267..Sun Connection 2
D270..Kefrons The Wall
D271..Timex Hydra
D272..Electric Demos 1
D274..Defpackers Demo
D276..Cave La Weird
D279..Iraqui Demo
D280/281..Delerious (2)
D307..L.S.D. Demo
D312..Devils Colours
D314..Trakmo
D315..The Groove Ramjam
D325/326..Real Empathy(2)
D328/329..Red Dwarf (2)
D330..Darkness M/Demo
D332..Melted Experience
D333-337..Odyssey (5)
D340..Watchman Demo
D341...Anarchy Smoker Co
D342..Ed 209 The Revenge
D343/344..Hardwired (2)
D346..Wildfire M/Demo
D347..Mindwarp M/Demo
D348/349..Skizzo Demo(2)
D350-352..Treacle Team(3)
D358..Mr Men Stories
D359..Seeing Is Believing
D360..State Of The Art
D361..Mayday Resistance
D362/363..Jesus On E's (2)
D364..Fish Tank
D365..Optimums Pressure
D366..Mind Riot
D367..InThe Can Demo
D368..Dynamic Illusions
D369..Piece Of Mind
D370..3D Demo 2
D371..Lethal Exit
D376...World of Commodore
D377...Claustraphobia
D380...Hoover Demo
D381...The Trip
D382/3...Project Techno (2)
D384...Interspace
D386...Mindwarp (AGA)
D387...Panta Rhei (AGA)
D388...Hysteria
D393-5...Grapevine 15 (3)
D396-8...Grapevine 16 (3)
D399-401...Grapevine 17 (3)
D402...In The Kitchen

UTILITIES

U1....Games Music Creator
U21...The Comms Disk
U32...Modem Utils
U34...Red Devils Utlis 1
U35...Soundtracker Special
U38...Paint,Music,Media
U39...Card Designer
U41...Red Devils Utils 4
U43...Future Composer
U44...Kefrons Makeboot
U45...P.E Giant Utils 168
U47...Label Designer
U49...Ultimate Icon Disk
U50...Power Comp Utils
U51...Jazz Bench
U55...Visicalc
U57...Quickbench
U59...Font Designer
U60...D-Paint Fonts 1
U61...D-Paint Fonts 2
U62...Med 3.20
U63...Direct Anim Creator
U64...Crossword Designer
U66...CLI Help + Others
U67...S/Tracker Mega
U68...Ultimate Boots 1
U69...Ultimate Boots 2
U73...Powerlogo
U74...M-Cad
U75...Journal Home Acc's
U76...Home Utilities
U77...Electrocad
U78...Ami Base
U81...Botbench V2.0
U82...Slideshow Maker
U83...Catalog Workshop 1
U84...Catalog Workshop 2
U87...Hard Disk Utils
U89-94...Amaster Radio (6)
U95...C-Light + Others
U96...GFX Utils 1
U100...Ham Lab
U101...Sid V2.0
U108...A-Gene
U113...Midi Utilities
U118/119...Video Utils (2)
U132...GFX Utils 2
U133/134...North C (2)
U136...CrossDoss (demo)
U138...Squid Squad Utils
U139...Terminalities V1.0
U140...Squash 1 (2.04 only)
U141...Squash 2 (2.04 only)
U142...Text Plus 3
U144...Dennis Samples 1
U145...Digitmaster Design
U146...Viz Clip Art
U147...Spectrum Emulator
U151...Slipstream V/Killers
U152...Red Devils Utils 6
U154...Amigafox W/P
U155...P.D Utils Docs Disk
U163...Quickbench + (2.04)
U164...Rim Database
U166...Dennis's Hack Disk
U167...Demolisher Utils
U168...Home Business 3
U172...Squelch (1.3 only)
U176...GFX Utils 3
U177...Star Charts
U179-180...Dice (2)
U181...Celtic Demo Maker
U186-206...Track Ins 10-30
U207...Icon Collection 1
U208...Dave Jones Fonts 1
U211...Chemesthetics
U212...Animated Pointers
U213...Desk Top Publisher
U215...Messy Sid 2
U216...Master V/Killer 2.2
U218...Data Base Wizard
U223...Ten Pin Data Base
U224...Q-Base Data Base
U226...Games Solutions 1
U231...D-Paint Fonts 3
U235...Ami Cash V1
U238...Icommania
U240...Icon Editor
U252...Spicomms 2.0
U254...New Superkillers 2
U255...Protracker v2.0
U256...Atari ST Emulator
U258...D-Copy 3
U262...PC Emulator
U273...Vidi Fonts 1
U274...Illinoi Labels
U275...600 Business letters
U279...Invoice Printer
U283...Kwaliine Fonts
U289...Amos Updater
U290...Kickstart 2.0
U293...Black Tiger Utils 2
U294...Text Engine V4.0
U296...Ultimate Disk Crea
U297...10 PD Copiers
U298...Protracker V3.0
U299...Address Print V3.1
U303...Game Tamer
U308...Music Base V1
U309...PP Minicrunch
U311...Vmorph V2.30
U313...Pro Astrology
U314...Pools Wizard Jr
U319...Lister V2.1
U320...Garden Designer
U327...Bezier Surf
U329...Music Engine V3.4
U330...Starview
U331...X-Beat Pro
U332...Superview V2.4

GAMES

G1...Return To Earth
G2...Games comp 5
G3...Dizzy Lizzy
G4...Scum Haters
G5...Parachute Joust
G6...Frantic Freddie
G8...Twiesta
G9...Psuedo Cop
G10...Drip
G11...Bug Bash
G12...Asteroids
G13...LLamatron
G14...Escape From Jovi
G15...Moria Adventure
G16...Ground Attack
G17...Megaball
G18...Insiders Club
G19...Various Adventures
G20...Battleforce
G22...Dragon Cave
G24...Rings Of Zon
G25...Mayhem
G26...Mechflight
G27...The Tennis Game
G28...Flaschbier
G29...Buck Rogers
G30...Greylayer
G31...7-Tiles
G32...Mega Comp 1
G33-34...Star Trek 1 (2)
G35-37...Star Trek 2 (3)
G38-39...Mechforce (2)
G40...Klondyke
G42...Car
G43...Games Comp 2
G44...S.E.U.C.K. Games
G45...Sacc Games Comp
G46...Games Comp 3
G48...Rays Game Disk
G49...Games Comp 4
G50...Games Comp 6
G51-52...Trucking (2)
G53...Jetpac
G55...Quick And Silva
G56...Miniblast
G57...Lamer Game
G58...Games comp 7
G59...Games comp 8
G60...Pom Pom Gunner
G61...Caverunner
G62...Crystal Caverns
G63...Intaxi
G64...Eternal Rome
G65...Lemmingoids
G66...DownHill Challenge
G67...Lame ST Ports
G68...Paranoid
G69...Puggles
G70...Chainsaw Death
G71...Pirate Pete's Treasure
G72...Serene 2
G73...Castles
G74...Dynamite Dick
G75...Card Games 1
G76...Wizzy's Quest
G77...Growth
G78...Skate
G79...Atic Atac
G80...Napoleonic Sim
G81...Project 1
G82...Lazer Zone
G83...Lemmings Pack
G84...Star Trek S.E.UP
G85...Lettrix
G87...Matched Pairs
G89...Snake Pit
G90...Zeus
G92...Blizzard
G93...The Maze Game
G94...Subculture
G95...Hollywood Trivia
G97...Shootout
G99...Holy Grail Adventure
G100...Amos Coindrop
G101...Classic Comp 1
G102...Card Games 2
G103...Super Skoda Chall
G104...Grand Prix Sim
G106...Computer Conflict 2
G107...Mission X Raid 2
G108...NU Game
G110...Tricky + The Turn
G111...Marble Slide
G112...Games Comp 10
G113...Black Jack Lab
G114...Dungeon Of Madroj
G115...Amiga Columns
G116...Robocop In Iraq
G117...Mutant Camels
G120-122...Warlock (3)
G124...Bart Simpson
G126...Air Ace 2
G127...Breakout Con Kit
G128...Pipeline
G129...Dung Of Doridian
G132...Peters Quest
G133...Star Trek 3
G134...Piperider
G139...Door To Door
G143...Solid Quad
G144...Omega Race
G145...Mission X Raid 3
G146...Trek 73
G147...Wack In Wonderland
G148...Squats Revenge
G149...Sky Fight
G150...Wet Beaver
G151...Airmania
G152...Wizard World
G154...Totally Frantic Quiz
G155...Chess V2.0
G156...Smash Telly
G159...Billy The Dragon
G160...I-Ching
G161...E-Type
G162...TomCat
G163...Sea Lance
G164...Dizzy Diamonds
G165...No Mans Land
G166...Word Square Solver
G167...Cross Fire
G168...Wastelands
G170...Space Blitz
G171...Crazy Sue
G172...Make A Break
G173...Squamble
G174...F-1 Challenge
G175...Othello
G178...Evil Dead Game
G179...Trainset
G180-181...P Comps 1+2
G182...Diplomacy
G183...Tractor Beam
G184...Motor Duel
G185...Game Boy Tetris 2
G186...Water Works
G187...Act Of War
G188...Mutants Games
G189-193...Timelords 1-5
G194...Nirvana
G195-196...Neighbours (2)
G197...Ameoba Invaders
G198...Game Boy Tetris 1
G199...Tetren
G200...Battlecars 2
G201...Dr Mario
G204...Ashido
G205...Cheats Disk 2
G206...Cheats Disk 3
G208...Airport
G209...F.R.A.C.
G210...The Golden Fleece
G211...Legend of Lothian
G212-214...Timelords 6-8
G215...Amos Games 1
G216...Super Sid
G217...Light Bikes
G218...Relayer
G219...Air Hockey
G220...Amos Child Quiz
G221...Texas Chainsaw
G222...Roulette
G223...Premier Pics
G224...Thrust Duel
G225...Wibble Giddy
G226...Super Pong
G227...Fruit Salad
G228...Brainbow
G229...Jeopard
G230...Space Invasion
G231...Karate Worm
G232...Super League Manager
G233...PD City Comp 1
G234...Colour Changes
G235...Battle Of Britain
G236...Super Twintri
G237...Castle
G238...Numtris (+ Only)
G239...Kung Fu Charles
G242...Micro Market
G243...Bload Runner

SLIDES

S1...Ham Pics Show 1
S4...Madonna slides
S5...Moviestar slides
S6...Party Disaster
S8...Immaculate Collection
S9...Simpsons Slides
S10-11...Channel 42 (2)
S12...Bruce Lee Slides
S14...Adams Family
S15...Viz Mag Slides
S17...Docklands Jarre
S18...Dr Who Demo
S20...Nasa Slides
S22-24...WWF Slides (3)
S27...Demons Slides
S28...Total Recall
S29...Joe's Slides
S30...Ham Pics Show 2
S32...Neighbours Slides
S33...Roger Dean slides
S34...Iron Maiden Slides
S35-36...Tobias Richter (2)
S38...Basket case 2
S39...Eces Slides
S40...Fraxion Devine 2
S41...Fraxion Devine 1
S42...Golems Gate Slides
S43...Chainsaw Slippers
S44...Cry For Dawn
S45...Forgotton Realms (2)
S47...Kick Off 3 Slides
S48...PD Slideshow
S49-52...Terminator (4)
S53...Robocop 2 Slides
S54...Trackmaster Slides
S55...Forgotton Realms 2
S56...Garfield Slides
S57...Pawnbroker Slides
S58...Hellraiser Slides
S59...Night Breed Slides
S60...Raytracing
S61...Horror Slides
S70...Muscle Mania
S71...Creature Comforts
S72...The Wonder Years
S73...Watership Down
S75...Ferrari 348 Pics
S76...Belinda Carlisle
S77...Cher Slides
S79...Freddies Dead
S80...Wendy James Slides
S81...The Invisible World
S82-83...Terminator 2 (2)
S84...Fantasy Pics
S85...Gulf War Slides
S86...Magical Pics
S88...Gulf War Tribute
S89-90...S/Thing Fishy (2)
S91...Eldorado Slides

ANIMS

A1...Probe Sequence
A2...Ghost Pool
A3...Jogger + Magician 1
A4...Gymnast Demo
A5...Fractal Flight
A6...Basketball Demo
A8...Walker Demo
A9...Magician 2
A10...Pugs In Space
A11...Luxor Teenager
A13...Juggler Demo
A16...Cool Cougar
A17...Mono Cycle Anim
A18...Robocop Anim
A20...Mayhem On Wheels
A21...Jugette 2
A22...Shuttlecock Anim
A23...T-Pot Anim
A27...Fleet Manouvre
A28...Billiard Anim
A29...E/Prise Leaves Dock
A30...Starwars 2 Anim
A31...Star Trek Anim
A32...Fraxion revenge
A34...Madonna Anim
A35...Stealthy Anims 2
A36...Raiders Of The L/Ark
A37...Bugs Bunny Show
A38...Iraq V's UK Anim
A39...Mike Tyson anim
A42...Walker 2
A43...Walker 3
A45-46...Light Cycle (2)
A47...Exploding Head
A48...Police Car Chase
A49...Top Gun Demo
A50...Animators Demo
A51...5 Ways To Kill a Mole
A52...Another 5 Ways
A53...Batman The movie
A54...3D Spaceship
A55...Mr Potato Head
A59...Low Level Flight
A63...Amy V's Walker
A64...Real Pinball Anim
A66...Porky Pig Anim
A67...Adventures Of Chuck
A70-71...Max Overdrive (2)
A73...Spaceshuttle Anim
A74...Ghostbusters + Horse
A76...Alarm Anim
A77...Flight Anim
A78...Piano Anim
A79...Dart Anim
A80...Bad Bird Anim
A81...Holiday Anim
A82...Filler The Fish
A85...Miners Anim
A86...Pocket Watch Anim
A90-93...The Movies 2 (4)
A95...My TinToy
A96...T-Pot 2 Anim
A99...Terminator 3
A100...Dolphin Dreams
A101/102...Thunderbirds (2)
A103...History of Amy
A104...Pogo Anim (2 Meg)

EDUCATION

E1...Education Pack 1
E2...Education Pack 2
E3...Education Pack 3
E4...Education Pack 4
E5...Education Pack 5
E6...Education Pack 6
E7...Educational Worlds 1
E8...Educational Games
E9...Math Drill
E10...Amiga Function Com
E11...Devpac Ed Comp
E12...Simon Says + S Maths
E13...Kids Paint
E14...Storyland 2
E15...Colour It
E16...Colour The Alphabet
E17...D.T.P. For Children
E18...Algebra
E19...Amosagram
E20...Animal Land
E21...Animal Sounds
E22...Military War Sounds
E23...Vehicles Sounds
E24/25...Read & Learn 1 (2)
E26...Junior Maths

BOULDERDASH COLLECTION 1-8

7 DISKS PER PACK FULL OF ROCKFORD STYLE GAMES COLLECT THE DIMONDS WATCH OUT FOR THE ROCKS 8 PACKS ALL £10.50 per pack

CLR LICENCEWARE

EDUCATION

CLE01 DINOSAURS Learn all about certain types of Dinosaurs Le Jurassic, Triassic and Creataceous. 2 disks £4.50.
CLE02 GEOLOGY Want to know all about the Volcanoes and their substances then try this. 2 disks £4.50.
CLE03 SOLAR SYSTEM Know more about the Solar system with info on Planets etc with pictures. 3 disks £5.50.
CLE04 COLOURING PAD A unique colouring book to keep the kids amused for hours. 1 disk £3.50.
CLE05 A CHORD Learn to play the guitar by listening to nearly every single chord available. 1 disk £3.50.
CLE06 MATHS INSTRUCTOR Get through the GCSE's with this Maths instructor. Trig, Quadratic, Area etc. 1 disk £3.50.
CLE07 FRESHWATER FISHING Think you know all about fishing? Try this. 2 disks £4.50.
CLE08 NIGHT SKY Look at the stars, planets etc from anywhere and click on an object for info. 1 disk £3.50.
CLE09 WORDS + LADDERS A word spelling game for 1 or 2 players. 1 disk £3.50.
CLE10 BASIC ALLY AMIGA Get to know your Amiga to the full. 3 disks £5.50.
CLE11 LETS LEARN VL1 Learn sums, tunes codes etc on this learning aid. Age range from 5-7. 1 disk £3.50.
CLE12 ALPHABET TEACH Try to spell what you see on the screen. 1 disk £1.50.
CLE13 HOME BREW With recipes to instructions on fermenting etc. Learn how to make home made wine. 1 disk £3.50.
CLE14 ECOLOGY Learn more about Ecology with this brill program. 3 disks £5.50.
CLE15 FAST FIRE Learn scales on the guitar and become as good as the best (with sound). 1 disk £3.50.
CLE16 KINGS AND QUEENS Find out all the Monarchy's history with this program (with pictures). 2 disks £4.50.
CLE17 THINGAMAJIG Brill puzzle type education program. 1 disk £3.50.
CLE18 WORK AND PLAY 3 educational programs to help children learn easily. 1 disk £3.50.
CLE19 PLAY IT SAFE This will teach children what safety is inside and outside. 1 disk £3.50.
CLE20 BIG TOP FUN Another 4 programs to help the children. 1 disk £3.50.
CLE21 JIGMANIA 2 jigsaw type educational programs on this disk. 1 disk £3.50.
CLE22 CHESS TEACHER Learn how to play chess the easy way with this teaching aid. 1 disk £3.50.
CLE23 MIND YOUR LANGUAGE Like a dictionary this explains word meanings but simplified. 1 disk £3.50.
CLE24 SPEED READING Learn the art of fast reading if you have problems. 3 disks £5.50.
CLE25 CHORD COACH VL1 Learn how to play different chords on the piano. 1 disk £3.50.
CLE26 SNAP Match silhouettes with the colour pictures on screen. Age 3+. 1 disk £3.50.
CLE27 CALTE A complete Turn card translator for the physics among us. 3 disks £5.50.
CLE28 FUN WITH CUBBY 6 programmes to help the children learn with fun. 1 disk £3.50.
CLE29 PREHISTORIC FUN Learn about the dinosaurs with 4 great games. 1 disk £3.50.
CLE30 PEG A PICTURE Draw pictures with either pegs or shapes, excellent for children. 1 disk £3.50.
CLE31 UNDERSTANDING AMOS 2 Having problems learning Amos, not anymore with this program. 2 disks £4.50.
CLE32 MESSERSCHMITT BF109 Learn about different parts of this plane with graphics. 2 disks £4.50.
CLE34 YOUR FIRST PONY What to look for and how to look after your first pony (book). 2 disks £4.50.
CLE35 TC SOLAR SYSTEM 2 Sequel to ver 1, superb 3 disks £5.50.
CLE36 THE TIME MACHINE Teaches kids to tell time. 2 disks £4.50.
CLE37 DISCOVERY AMERICA Learn all about colonisation of U.S.A. 1 disk £3.50.
CLE38 HOME INVENTIONS First in the quest for knowledge series, this picture book deals with inventions since 1760. 2 disks £4.50.
CLE39 MY LITTLE ARTIST Superb colouring book for children with features for disabled needs as well. Needs 1 meg chip ram. 2 disks £4.50.

UTILITIES

CLE01 VIDEO TITLER Make your videos look professional, scrollers etc. 1 disk £3.50.
CLE02 FISH INDEXER A full database of the Fred Fish library. 1 disk £3.50.
CLE03 TYPING TUTOR Typing can be no longer a problem with this. 1 disk £3.50.
CLE04 A-GRAPH Create pie charts and bar graphs with ease. 1 disk £3.50.
CLE05 SAS MENU MAKER Make menus to suit you. 2 disk £3.50.
CLE07 PHIL O An easy to use but powerful database system. 1 disk £3.50.
CLE08 WORD FINDER Solve the crosswords easily. 2 disks £4.50.
CLE09 PLAY AND RAVE 2 A music module linker to create music. 2 disks £4.50.
CLE10 POWER ACCOUNTS Keep accounts of your expenditure with password function. 1 disk £3.50.
CLE11 CALC VL3 An excellent spreadsheet for those cross calculations. 1 disk £3.50.
CLE12 VIRTUAL WINDOWS 1 A collection of utilities like address book, notepad, software cats etc. 1 disk £3.50.
CLE13 DATOS Easy to use yet very powerful database. 1 disk £3.50.
CLE14 STOCK CONTROLLER Keep up to date with your stock control. 1 disk £3.50.
CLE15 EPOCH Very powerful calendar utility. 1 disk £3.50.
CLE16 ICROSS MASTER Useful needlework utility. 1 disk £3.50.
CLE17 LC30 FONTS Different fonts for your LC10 Printer. 1 disk £3.50.
CLE18 LC200 FONTS Different fonts for your LC200 Printer. 1 disk £3.50.
CLE19 LC24FONTS Different fonts for your LC24 Printer. 1 disk £3.50.
CLE20 CANON BJ10 FONTS Different fonts for your BJ10 Bubblejet printer. 1 disk £3.50.
CLE21 INVOICE MASTER Sort your invoices out easily with this one. 1 disk £3.50.
CLE22 ILDM. v1.1 A hard drive multitasking menu system. 1 disk £3.50.
CLE23 F-15 ANIMBRUSHES Anim brushes for use with paint packages. 1 disk £3.50.
CLE24 RED LOTUS ANIMBRUSHES More anim brushes for paint packages. 1 disk £3.50.
CLE25 STAR FIGHTER ANIMBRUSHES Even more anim brushes for paint packages. 2 disks £4.50.
CLE26 STAR VOYAGER ANIMBRUSHES Yet more animbrushes for paint packages. 2 disks £3.50.
CLE27 IMAGEBASE A very powerful image database to store pictures text and sound. 1 disk £3.50.

GAMES

CLG01 NORRIS A very addictive game set in the medieval era. 1 disk £3.50.
CLG02 DARK THINGS A brilliant platform scrolly game. 1 disk £3.50.
CLG03 PHASE 3 An excellent shoot-em-up with a difference. 1 disk £3.50.
CLG04 X-SYSTEM A very addictive game with the usual end of level monster. 1 disk £3.50.
CLG05 TRUCKING ON Try and manage your own truck fleet, excellent. 2 disks £4.50.
CLG06 OBLITERATION Another fast shoot-em up type game. 1 disk £3.50 (Not 68020 compat).
CLG08 DRAGON TILES Oh! Japanese type mahjong style game. 1 disk £3.50.
CLG09 MOTOR DUEL Drive a 3D car shooting and racing with opponents. 1 disk £3.50.
CLG10 FUTURE SHOCK A case of getting the hit through the maze. 1 disk £3.50.
CLG11 ALL GUNS BLAZING Car game for 2 players with the overhead view theme. 1 disk £3.50.
CLG13 BULLDOZER BOB Wipe out the screen of coloured blocks. 1 disk £3.50.
CLG13 WARDOG A missile game to test those powers of aiming. 2 disk £3.50.
CLG14 SONIC SMARTIEHEAD Another platform style game. 1 disk £3.50.
CLG15 SPLODGE THE REVENGE Another platform game with puzzles to solve. 1 disk £3.50.
CLG17 IMBRIUM DAY OF RECKONING One of those graphic adventure type games, excellent! 1 disk £3.50.
CLG18 SKAN 29 Brill platformer with 220 levels and end of level monsters. 1 disk £3.50.
CLG19 STELLAR ESCAPE Vertical scrolling shoot em up game. 3 disks £5.50.
CLG20 JUNGLE BUNGLE A mouse icon driven adventure that will have you playing for hours. 1 disk £3.50.
CLG21 FLOWER POWER Try and grow flowers before the bugs eat them. 1 disk £3.50.
CLG22 STOCKING FILLERS 3 games all with Christmas themes. 1 disk £3.50.
CLG23 MARVIN THE MARTIAN A massive maze type game where you collect things to stay alive. 1 disk £3.50.
CLG24 EASY MONEY Excellent fruit machine (sim plus compat). 1 disk £3.50.
CLG25 WHITE RABBITS Another puzzle type game. 1 disk £3.50.
CLG26 MONSTER ISLAND A strategy type adventure along the lines of Dungeons and Dragons. 1 disk £3.50.
CLG28 THE KIT Excellent platform adventure along the lines of Turrican. 1 disk £3.50.
CLG29 BILLY BALL Guide Billy through 5 worlds of mazes. Excellent game. 1 disk £3.50.
CLG30 CAPTAIN K Collect flowers and kill baddies to move to next level. Good fun! 1 disk £3.50.
CLG31 DIRTY RACKETS 3 Tennis platform game! 1 disk £3.50

ASSASSINS 1 TO 142 NOW IN

DON'T FORGET TO CLAIM YOUR FREE GIFT - WHILE STOCKS LAST

RAVE & TECHNO PACK 1
ORDER NO: PO1
DANCE IN STYLE WITH ALL THE LATEST RAVE & TECHNO SOUNDS ON THE AMIGA
10 DISKS FOR ONLY £10.50 + P&P

RAVE & TECHNO PACK 2
ORDER NO: PO11
YET MORE OF YOUR FAVOURITE DANCE TRACKS TO KEEP YOU RAVING
10 DISKS FOR ONLY £10.50 + P&P

EDUCATION PACK
ORDER NO: PO2
LEARN LANGUAGES, PLAY GAMES, WATCH DEMOS, PAINT PICTURES ETC. AGE RANGE 5-ADULT
15 DISKS FOR ONLY £15.50 + P&P

CLIP ART PACK
ORDER NO: PO3
WITH 100s OF PICTURES TO CHOOSE FROM THIS IS A MUST FOR ALL YOU D-PAINT AND DTP ENTHUSIASTS
15 DISKS FOR ONLY £15.50 + P&P

BUSINESS PACK 1
ORDER NO: PO4
WHETHER IT'S JUST TYPING A LETTER OR KEEPING A RECORD OF YOUR FINANCES, THIS IS A DEFINITE MUST
10 DISKS FOR ONLY £10.50 + P&P

BUSINESS PACK 2
ORDER NO: PO10
EVEN MORE UTILITIES TO KEEP YOUR RECORDS RUNNING SMOOTH
10 DISKS FOR ONLY £10.50 + P&P

STAR TREK PACK
ORDER NO: PO8
THIS IS FOR ALL YOU STAR TREK FANS. CONTAINS STAR TREK GAMES 1 & 2 + OTHER ANIMATIONS ETC
10 DISKS FOR ONLY £10.50 + P&P

CARD GAMES PACK
ORDER NO: PO9
CAN'T FIND THOSE CARDS. FEAR NOT, ALL YOUR FAVOURITE CARD GAMES ARE AT HAND IN THIS PACK
10 DISKS FOR ONLY £10.50 + P&P

SPECTRUM EMULATOR
ORDER NO: PO7
THE NEW 1.7 EMULATOR WITH FOUR GAMES DISKS. 66 GAMES IN ALL. A MUST FOR ANY COLLECTION
5 DISKS FOR ONLY £6.25 + P&P

ASSASSINS PACKS £1.50 EACH

10 DISKS.....£10.50+p&p
30 DISKS.....£28.50+p&p
40 DISKS.....£34.50+p&p
54 DISKS.....£43.50+p&p
70 DISKS.....£58.00+p&p
ALL 116 .....£95.00+p&p

ACCESSORIES

MOUSE HOUSE.....£2.50
MOUSE MAT.....£2.80
AMIGA MOUSE.....£14.99
10 CAP BOX.....£1.99
A500 COVER.....£3.99
A600 COVER.....£3.99
A1200 COVER.....£3.99
3.5" DSDD DISKS.....£0.69
MONITOR STAND.....£10.99

HOW TO ORDER

All you need to do is put the numbers of the disks required and send it to the address below along with a cheque or PO made payable to DISKOVERY
Please don't forget to include the correct postage to ensure speedy delivery

PRICES

PUBLIC DOMAIN	POSTAGE
1-9 ....£1.50 each	Europe PD....60p
10+ ....£1.25 each	Accessories....60p
20+ ....£0.99 each	World PD....£1.50
	Accessories £1.00

A1200 DEGRADER NOW IN ONLY £1.50 each MOST DISKS WILL WORK NOW

SEND YOUR ORDER TO...

WE ACCEPT ALL MAJOR CREDIT CARDS

WOT NO SWITCH

DISKOVERY, DEPT (AC), 108 THE AVENUE, CLAYTON, BRADFORD, W YORKS BD14 6SJ

You're booked!

At last, you have reached the point of no return. You are well on your way to becoming computer literate. Your friends (and enemies) might stop you and say "you techie", "you anorak" or "get a life".

But no, you're proud of what you've achieved and know that while they're on the dole queue, you've set yourself up on the road to one of the largest and most rapidly expanding industries on the face of this planet.

Here, as the final instalment of the series, is a look at a series of books that will continue to help and increase your knowledge of that value for money machine sitting in the living room.

Keep reading *Amiga Computing* for the latest book reviews and updates for the choice books to spend your hard-earned cash on. Good luck...

As the Absolute Beginners series draws to a close, Adam Phillips leaves you with a selection of books to help you take the next steps to enlightenment

The Insider Guide to the A1200

Author: Bruce Smith

Publisher: Bruce Smith Books
Price: £14.95

Already a best-seller, *The Insider Guide'* is a valuable tome well worth the asking price. By using simple step-by-step tutorials, the book takes the reader by the hand, showing the various basics of the machine.

From MultiView and copying files to Intellifonts and configuring sounds, the *The Insider Guide'* is a non-threatening book packed with useful info.

Amiga – Next Steps

Author: Peter Fitzpatrick

Publisher: Bruce Smith Books
Price: £14.95

This picks up from where the Bruce Smith's book left off. Twenty-two chapters cover a varying amount of topics from Amiga DOS, printing and the contents of the Workbench disks to even a few helpful hints on game playing.

There are a few slips along the way with a rather short-sighted approach to hard drives and their reformatting but on the whole, like its forefather, this is a simple to use and understandable sequel and even features a section on how to remove coffee once spilt on a keyboard. Now that's what I call practical.

Amiga 1200 Beginner's Pack

Author: Various

Publisher: Bruce Smith Books
Price: £39.95

Reviewed last month in this very magazine, the Beginner's Pack compilation features the two above books, a 60-minute video and four disks of PD and shareware software. The video is an extremely basic guide to the very fundamentals of Amiga 1200 operation – explanations of the keyboard and the ports at the back are absolutely ideal for the utter novice technophobe.

After viewing the cassette, the two books fill in the main bulk of the package and as described above, are about as good as you can find at present. The disks feature a variety of utilities and programs for your perusal once familiar with the basic setup of your machine.

A word processor, clip art, music editor, virus checker and other handy items are included, making the *Amiga 1200 Beginners Pack* good value for money. Recommended.

Denny Atkin's Best Amiga Tips And Secrets

Author: Denny Atkin

Publisher: Compute Books
Price: £18.75

Not structured in the same way the Insider's Guide is, Denny Atkin's book is still a worthwhile purchase for all kinds of tips and advice on the Amiga's more hidden functions. Written in an easy if a little over-Americanised tone, this is an ideal reference book to dip into from time to time with the only real negative being the price.

Also recommended...

Mastering Amiga Amos by Phil South is another solid book ideal for budding enthusiasts of this very popular language. Priced £19.95 and available from Bruce Smith Books, this receives high marks for content.

Mastering Amiga DOS 2 Volumes 1 & 2

Authors: Smith & Smiddy

Publisher: Bruce Smiths Books
Price: Vol 1 – £21.95 Vol 2 – £19.95

These two books give a full run-down of Amiga's operating system. The first volume forms an extensive tutorial to help the struggling beginner to get up and running and by the end, you'll be a whole lot wiser.

The second tome acts a reference book for the first, featuring commands and examples to extend the user's knowledge. While the A1200 uses v3 of DOS, these are still highly useful and there is a volume for v3 if so desired in the form of another reference book.

However you look at it, these will help your understanding of the Amiga Shell immensely, and come highly recommended.

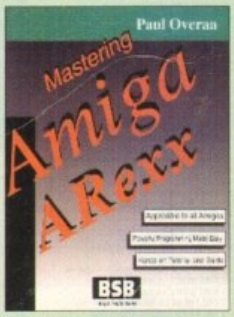
Mastering Amiga ARexx

Author: Paul Overaa

Publisher: Bruce Smith Books
Price: £21.95

Even though you might not know what on earth ARexx is at the moment, I'm sure that you'll delve into it at some stage.

ARexx is the Amiga version of Rexx, a programming language that Commodore has made part of Workbench. While being a specialised area, ARexx is a useful language to know and this book, while on the expensive side is, written by an author who obviously knows it like the back of his own hand. The guide takes the reader through installing ARexx and its more prominent features while comparing it to the likes of Basic with various programming examples.



Make no mistake, this is a sturdy, heavy going book on the whole but well worth the time invested in it especially seeing that the instructions that Commodore provide are so... well... cack.

£1.00 PER DISK FOR 25 OR MORE DISKS!

PSD

THE PROFESSIONAL STANDARDS FOR DISTRIBUTION ENDORSED BY COMMODORE UK

EST. 1991

A600/A1200 IF YOU OWN AN A500+, A600 OR AN A1200, THEN OWN A COPY OF KICK 1.3 EM400

DELTRAX PD

Tel/Fax: 0492 515981

PUBLIC DOMAIN AND SHAREWARE AT ITS VERY BEST

A600 OWNERS GET NUMPAD EM397 TO GET MORE PROGS WORKING

CENTRAL LICENCEWARE

£1.00 PER DISK FOR 25 OR MORE DISKS!

EST. 1991

UTILITIES

- U1 **GHOSTWRITER** Denomaker, easy to use
- U1A **GHOSTWRITER DATA** For use with U1
- U5 **LOADSAICONS** Gems what!
- U11 **ICONMANIA** Icon utilities
- U42 **DISK SALVAGE DIR-UTIL** Repairs disks
- U54 **QUICKBENCH PLUS** Alternative W.B.
- U58 **ANTI FLICKER** Stop Screen flicker
- U59 **WINDOWS BENCH** (2 disks) Excellent for W.B. 1.3
- U60 **MESSY SID II** Dir-tool Amiga to PC
- U73 **DIRWORK**
- U80 **CLI HELP + OTHERS** Insight into the CLI
- U81 **MCAD DEMO** Computer aided design
- U86 **ELECTROCAD DEMO** Latest circuit design
- U125 **CROSSDOS** Amiga to PC
- U160 **DESIGNER DISK SET** (3 Disks) Understand Amiga bette
- U163 **HACK PACK** (2 Disks) 72 Utils for code busters
- U190 **SID V2.0** Dir tool, excellent
- U195 **LITTLEBENCH** Alternative WB
- U230 **INSTALL** Install your disks without the CLI
- U242 **MSH V1.3** Handles MSDOS files
- U260 **SUPERLOCK V1.01** Security prog. lock off Amiga
- U267 **ARP V1.3** Alternative commands
- U271 **NBS SPEEDBENCH** Fast loading W/Bench
- U282 **SUPER C DIR TOOLS** Fast use of C
- U297 **COMPUTEREYES ICONS**
- U308 **AMOS COMPILER UPDATE 1.34**
- U318 **MULTIDOS** PC+Amiga
- U320 **CLI-UTILS** Very useful
- U321 **AMOS 1.34 UPDATE**
- U323 **WINDOWS BENCH V2.0** (2 disks)
- U330 **FLASHDISK RELEASE 3** Optimiser
- U332 **ASSASSINS HANDY TOOLS V3.0**
- U343 **WORKBENCH HACKS** (A500+/A600+)
- U346 **PROF DEMO CREATOR V1.1**
- U349 **SUPER POWER PACKERS**
- U351 **WORKBENCH HACKS**
- U352 **C-COMMANDS**
- U361 **ROM** Directory util
- U391 **HACKTAR 1.6** Adv Creator
- U392 **STD COMPUTER U.K.**
- U393 **RAD BENCH 1.4** Make use of your RAM
- U399 **TOGGLE CLICK** A600/A1200 only-Stops drive click
- U404 **ENGINEERS KIT** Diagnostic tools
- U406 **TOOLS FANTASTICA**
- U412 **LYAPUNOVIA** Picture generator
- U413 **ARESTAURE** Mends deleted files
- U414 **FAST INTRO MAKER**
- U415 **P-COMPRESS** Packer
- U416 **S-TEXT** Text packer
- U421 **KINGFISHER** Fish index to B40
- U423 **LYAPUNOV** Fractal generator
- U424 **ICON AUTHOR** Iff images for Icons
- U425 **AUTOSAVE** Save at intervals automatically
- U426 **EAST BENCH** (2 disks) WB2 and above
- U427 **MENU MASTER**
- U428 **PARNET** (2 disks) Link two Amigas
- U429 **AMOS PRO UPDATE** Latest
- U430 **XPK COMPRESSION UTILS**
- U431 **WB2 UTILS**
- U433 **AMOS PRINTER ROUTINE** For Amos progs
- U434 **V MORPH + ZB** Create great effects
- U435 **BANNER** Make your own
- U436 **HEAD CLEANER** For drives
- U437 **DISK SALV 2** Latest & greatest! WB2 & above
- U438 **CSH SHELL v 5.31** Easy to use
- U441 **DISK MASTER III**
- U442 **FRED FISH CATALOGUE 1-890**
- U443 **PP SHOW v 3.4a**
- U444 **HYPER** use with Amiga guide
- U445 **AMIGAGUIDE (2 disks)** Hypertext utility
- U446 **AG v1.36** for archivers
- U447 **ADOC v1.01** help utility
- U448 **DISKTEST v2.03** checks integrity
- U449 **SOFTPROJECT** write protection
- U450 **SUPERDARK v1.2** screen blanker
- U451 **APRF v1.4** print utility
- U452 **GUIARC v1.1** for CLI based archivers
- U453 **LANDBUILDER v3.2** Fractal land gen.
- U454 **PC+AMIGA** file utility
- U455 **TRONICAD** electronic circuit design
- U456 **X-BENCH** (2 disks) replacement W.B.
- U457 **ROT-3D** drawing package
- U458 **SNOOPDOS** get progs working
- U459 **T.S. MORPH**
- U460 **AREXX GUIDE**
- U461 **DEANS CRUNCHERS**
- U462 **ASSASSINS FIX DISK 1**
- U463 **ASSASSINS FIX DISK 2**
- U464 **AF'S REPLACEMENT WB** (3 disks) not A1200
- U465 **T.A.C.K.** Anim. Const. Kit
- U466 **T.A.C.K.** Music Modules
- U467 **T.A.C.K.** Background Pics
- U468 **ZIPBENCH** (2 disks) not 1200
- U469 **SUPERWRITER V2.4** Slideshow util.
- U470 **UDRAW**
- U471 **MINIMORPH**
- U472 **SCALE ICON**
- U473 **CATALOGUE COLLECTOR**
- U474 **SPICE 3** Circuit Analysis

BUSINESS

- BU86 **JOURNAL** Accounts, simple to use
- BU96 **AMIBASE V3.76** Database
- BU104 **BANK'N** Cheque account
- BU105 **AMICASH BANKIN** Accounts
- BU106 **Q BASE & SPREADSHEET** Addresses
- BU108 **VISICALC SPREADSHEET** Like Lotus 123
- BU111 **ANALYTICALC** * (2) Spread-sheet, powerful
- BU112 **FLEXIBASE V2.0** DBase
- BU124 **BUSINESS CARD MAKER**
- BU128 **STOCK C & WORDWRIGHT** Spread/w. proc.
- BU129 **WORDWRIGHT & SPELL** W/proc and check
- BU131 **U-EDIT W/PROCESSOR**
- BU132 **TEXTPLUS W/PROCESSOR**
- BU133 **BUSINESS LETTERS** Just load 'em in
- BU135 **AMIGAFAX DTP V1.1** Puts pics with text
- BU136 **AMIGASPELL** Spellchecker
- BU137 **WORD FRENZY-QBASE & SPELL**
- BU138 **AMIGAFAX V1.0** W/Processor
- BU145 **TEXT ENGINE V4.1** W/Processor latest
- BU152 **AMIBASE PROF II V1.2** D/Base
- BU158 **MICROGONEMACS** Text editor
- BU162 **A-Z SPELL** Spellchecker
- BU171 **ILLINOIS LABEL PRINTING**
- BU172 **INVOICE PRINTER**
- BU186 **CLERK V4.0** Accounts – latest
- BU204 **MAIL-O-DEX** Mail Database
- BU212 **LABEL DESIGNER**
- BU231 **SPELLCHECK V1.2**
- BU248 **CHECKBOOK ACCOUNTANT** Very good
- BU251 **BUDGET V1.3-4** Finances
- BU254 **SUPERSPELL** Global spell check
- BU301 **FORMS UNLIMITED** Loads
- BU304 **P SUITE V1.4**
- BU314 **P WRITER** Text editor
- BU324 **WORDPOWER** Thesaurus
- BU325 **EDWORD** W/Processor
- BU326 **ADDRESS BOOK**
- BU327 **BOILER PLATE** W/Processor & Bus. letters
- BU328 **LITTLE OFFICE WP, S/S, D/B + Graphix**
- BU329 **MISTER ADDRESS ANALYSER**
- BU330 **PRINT A CARD** Design
- BU332 **AMIGA MAIL** Address lists
- BU334 **PC FORM FILLER**
- BU335 **PKY ADVICE ANALYSER v3.0** P.A.Y.E., N.I. etc
- BU336 **MONEY PROG** * Good accounts
- BU337 **CHEQUE BOOK** Accounts prog
- BU339 **D LAN** Disk Librarian
- BU340 **LOGINFO** Phone bills for modem
- BU341 **EASYCALC** New spreadsheet
- BU181 **B BASE III** Database
- BU319 **DIGDEX v1.7** Database
- BU342 **LS LABEL** Label print
- BU343 **DATABASE WIZARD**
- BU088 **ADDRESS PRINT v3.0**
- BU090 **TEXTPLUS v4.1** Hard Drive only
- BU400 **ENVPRINT** Address envelopes
- BU401 **P.E. PRINT UTILS** Labelling progs
- BU402 **TRUE ED** Excellent editor
- BU403 **FTX ACCOUNTS**
- BU404 **ACCOUNT MASTER 2.12**
- BU405 **TURBO TEXT v1.1** very impressive w.processor
- BU406 **ADM v1.01** Flexible address d/base
- BU407 **A-BASE** Great database
- BU408 **GOLD ED** - Fully functional - fantastic!
- BU409 **FH SPREAD** - New spreadsheet
- BU410 **BUDBASE v1.2** Easy to use d/base
- BU411 **EASYCALC PLUS** Good spreadsheet WB2+ only
- BU412 **AMIGABASE** Excellent database
- BU413 **BANK v1.8** Accounts programme
- BU414 **INVENTORY II** Stock control & wages
- BU415 **AMIGA DIARY v1.13**
- BU416 **PAYROL**
- BU417 **EASYPRINT** (1.3 only)
- BU418 **PERSONAL ADDRESS BOOK** (Password)
- BU419 **PERSONAL JOURNAL** (Secret Diary)
- BU420 **WOMBLE VOL 1** Database etc.

HOBBIES

- H 88 **CROSSWORD DESIGNER**
- H148 **A-GENE** Family history
- H175 **GOLF RECORDER v 1.84**
- H202 **ROAD ROUTE USA**
- H214 **FOOTBALL LEAGUE EDITOR**
- H247 **CALORIE BASE** For recipies
- H250 **DARTS LEAGUE D/BASE**
- H298 **CULT TV VOL 1** TV series info
- H299 **WHOM 2** Data on TV progs.
- H302 **LAST WILL & TESTAMENT**
- H305 **ASTRO 22 v 3.5** Latest astrology
- H307 **WILLY-HISTORY D/BASE**
- H310 **TEN PIN BOWLING D/BASE**
- H333 **AMIGA PUNT** Horse racing
- H336 **PERM CHECK v1.0** Pools predicter
- H349 **SUPERVIEWER V2.4** Slideshow util.
- H361 **NEW BIORYTHMS** Excellent prog.
- H362 **WINE MAKERS D/BASE**
- H363 **CYCLING MANAGER** Useful
- H365 **DARTS MACHINE** Score recorder
- H365 **AMYGEN** Family history
- H366 **POOLS WIZARD** Demo
- H367 **MING** Chinese Astrology
- H368 **ASTRONOMY** 2 Data & graphics
- H369 **AMERICAN FOOTBALL** (2 Disks) Rules
- H370 **LANDSCAPE GARDENING**
- H371 **GENEOLOGIST** WB2 and above
- H372 **TOP OF THE LEAGUE** Football Manager
- H373 **COURSE FORM** Horse racing
- H374 **FORECASTER** Horse race predictor
- H375 **STARVIEW** Astronomers
- H376 **COOL MUNGUS v5.7** Highway Code
- H377 **FOOTBALL FORECAST DEMO**
- H378 **BON APPETITE** Recipe database
- H379 **POOLS TOOLS 2** Pools progs.
- H380 **SEE THE AURA** (2 disks) human aura
- H381 **PHOTOGRAPHY** About the Dark Room
- H382 **DSOLVE CROSSWORD** Solve them
- H383 **PROFESSIONAL BINGO**
- H384 **WORD UTILITIES** Word puzzle solver
- H385 **KITE SIMULATOR** Fly your kite!
- H386 **POOLS WIZARD JUNIOR V1.0**
- H387 **SPIDERSOFT UTILS** Garden Designer
- H388 **GENIE** Family History
- H389 **STOCK ANALYST** Stocks & Shares
- H390 **WHOM 3** Part 2
- H391 **WHOM 3** Part 3
- H392 **TAROT** (2 disks)
- H393 **KNIT** Create patterns
- H394 **GOLF GURU V1.2** Keep golf scores
- H395 **FOOTY V1.4** Football League Editor
- H396 **DIVIDEND WINNER** Football

COMMUNICATIONS

- C 25 **COMMSOFT** Needs C26
- C 26 **COMMSPANION** Needs C25
- C 62 **AZ-COMM** Modem programme
- C222 **JR COMM v1.02** For modems
- C249 **TERM II v1.1** Comms prog WB2/3
- C303 **OPTI COMMS** Inc.N Comm 2
- C347 **SATELLITE TRACKER**
- C357 to C382 **AMATEUR RADIO 1 - 26** (26 disks) send for details
- C383 **N COMM v3.0** Latest
- C384 **BBBBS** (3 disks) Bulletin board system
- C385 **TERM v3.4** (2 disks) WB2/3
- C386 **SPOT** Fidonet util
- C387 **TERMINUS** JR Comm 2

VIRUS HELP

- VH 44 **MASTER VIRUS KILLERS v2.0**
- VH 93 **WARRIORS VIRUS KILLERS**
- VH218 **NEW SUPERKILLERS v2.5**
- VH235 **BOOTX V4.4B** WB 1.3/2
- VH312 **LINK VIRUS DETECTOR**
- VH409 **EXTERMIN 8**
- VH411 **VIRUS Z v3.97**
- VH413 **ANTICICLOVIR v2** Link virus detector
- VH414 **VIRUS CHECKER v6.33**
- VH415 **SUPER VIRUS KILL WB 2+**
- VH416 **TRONIC VIRUS KILLERS**
- VH417 **VIRUS Z II** WB 2+

EDUCATION

- E6 **LEARN & PLAY** (2 disks) Early learning
- E9 **MATHS DRILL**
- E10 **TYPING TUTOR**
- E11 **KIDSPAINT**
- E13 **SPELLYLAND 2** Save toyland
- E14 **TC ASTRONOMY** Book on a disk
- E15 **TC DINOSAURS** Learn about them
- E17 **SPELLCHECK** Learn foreign words
- E18 **TRANSLATOR** Spanish, French, Italian
- E19 **COLOUR IT V1.3** For younger kids
- E23 **COLOUR THE ALPHABET** Very good
- E24 **DTP – FOR KIDS** Excellent
- E25 **ALGEBRA**
- E26 **MATHS WIZARD** Let the Wizard help
- E27 **AMOSAGRAM** Playing with words
- E28 **BLACKBOARD MATHS**
- E30 **MR MEN STORIES** All your favourites - 1.3 only
- E31 **READY ROBOT** Full of games
- E32 **SCIENCE 1, 2, 3, 4** (4 Disks) Physics
- E203 **MULTIPLOT +XLINE** (2 Disks) Data plotting prog
- E258 **MATHPLOT** Lin/log plotter
- E259 **PLOTTER v3.50** 2 dim math plots
- E311 **AMIGA TUTORIAL** Beginners will like this
- E329 **ADMATH** Pie charts & others
- E334 **SACC TO SCHOOL** Kids puzzles, very good
- E335 **FIREWORK ALPHABET** Learning aid demo
- E336 **GRAMMAR** Correct your errors
- E337 **WORLD GEOGRAPHY** Very useful
- E338 **CHEMBALANCE** Chemical equations
- E339 **MATCH WITH HUMPTY**
- E340 **AMIGA WORLD** Info on every country on Earth
- E341 **SINGALONG NURSERY RHYMES**
- E342 **PICTURES & LETTERS**
- E344 **GREAT WOMEN OF OUR TIME**
- E345 **GAS TURBINE ENGINE** Anim.
- E346 **4 STROKE ENGINE** Anim.
- E347 **STEAM ENGINE** Anim.
- E348 **WW II HISTORY BOOK**
- E349 **A VISIT TO THE RED PLANET** Mars
- E350 **EVO** Evolution of man
- E351 **FRACTIONS**
- E352 **GCSE MATHS**
- E354 **COMMUNICATE** Sign language
- E355 **LITTLE TRAVELLER** Tourist
- E356 **ASSASSINS BACK SKOOL** (3 disks)
- E357 **TWO STROKE PETROL ENGINE ANIM**
- E358 **JAPANESE** Learn the language
- E359 **KEYBOARD TRAINER v1.1** Typing tutor
- E360 **IRREGULAR VERBS** - Quiz
- E361 **HOW THE EARTH BEGAN**
- E362 **CHESS TUTOR**
- E363 **ELEMENTS**
- E364 **ANIMAL LAND 1** Ages 4+
- E365 **FLAGS OF THE WORLD** (3 disks)
- E366 **MATHS ADVENTURE**
- E367 **MATH TALK** Sound + Speech – ages 9+
- E368 **KIDS DISK 1** – Learning
- E369 **KIDS DISK 2** – Learning
- E370 **CHILDRENS FAVOURITES** Good Fun
- E371 **THE ATOM** (2 disks) All you need
- E372 **JUNIOR MATHS**
- E373 **READ & LEARN** (2 disks)
- E374 **WORD FACTORY** Spelling
- E375 **KIDS DISK 3**
- E376 **KIDS DISK 4**
- E377 **OUR SOLAR SYSTEM**
- E378 **PLANETARIUM**
- E379 **KIDS DTP 2**
- E380 **KIDS DTP EXTRAS**

EMULATORS

- EM 87 **SPECCY + 48 GAMES** 1.3 only
- EM141 **IBeM** PC emulator
- EM143 **ST EMULATOR** 1.3 only
- EM149 **C64 GAMES DISK 1** use with
- EM150 **C64 GAMES DISK 2** emulator
- EM215 **A64 EMULATOR v2.8*** (2 disks) Latest C64 emulator
- EM306 **MS-DOS PROGS FOR PC TASK** (8 Disk)
- EM324 **KICKSTART 2** 1.3 users get this!
- EM397 **NUMPAD** (A600 ONLY) Numeric keypad
- EM400 **KICK 1.4** (Wb 2 & 3 only) Degrades to Kickstart 1.3
- EM410 **DEGRADER** Degrades to 1.3
- EM412 **FAKEMEM** Degrades to 1.3/512k
- EM413 **KILL AGA v2** Turn off AGA chipset
- EM414 **KICKSTART 3 EMULATOR** Upgrades WB2
- EM415 **PC TASK v2.03**
- EM416 **SPECCY EMULATOR v1.7** All Amigas
- EM417 **S KICK** Switch WB 3.0 to 1.3
- EM418 **Z KICK** A600 emulator
- EM419 **DATASETTE 64** Transfer C64 progs
- EM420 **40 GAMES** for EM416

THE A64 EMULATOR V3.0

Latest version for all Amigas – run C64 disk drive and software + printers. File transfer – complete package – runs faster than original

Price £54.99
+ £1 p&p UK.
£2.50 Overseas

PC TASK V2.0

Full version allows PC Software on all Amigas. Supports VGA, but SVGA on AGA machines. Requires min. 1 meg RAM + MS DOS V3.3+ Disk

Price £44.99
+ £1 p&p UK.
£2.50 Overseas

HARD DRIVE UTILS

- HD102 **HARD DISK UTILS** Excellent collection
- HD223 **DELTRAX HD UTILS** 1 Floriminder, HDClick
- HD395 **RE-ORG V2.3** Optimiser
- HD397 **HD CLICK v2.53**
- HD398 **MR BACKUP v1.14B**
- HD399 **BACKUP**
- HD400 **C DISK** Optimiser
- HD401 **HD STACKER** Double your space

CD's CD's CD's CD's

FOR CDTV, A570, CD32

- CDPD 1 ..... £19.95
- CDPD 2 ..... £19.95
- CDPD 3 ..... £19.95
- 17 BIT COLL £39.95
- 17 BIT CONT. £19.95

PLEASE ADD FOR P&P
UK = £1
OVERSEAS = £2.50

WE STOCK FRED FISH 1 - 950

PRINTER DRIVERS

- PD177 **PRINTER DRIVERS** (2 Disks) Loads of 'em!
- PD200 **PRINTER DRIVER GENERATOR** Make your own
- PD275 **JOY OF PRINTING** Drivers + fonts
- PD281 **PRINT STUDIO** 41 drivers – good
- PD327 **CANON PRINTER DRIVERS**
- PD326 **PRINTER DRIVERS UPDATE 3**
- PD335 **PRINTER DRIVERS** Canon BJ10e
- PD358 **CANON PRINTER DRIVER** BJ130 etc
- PD407 **PRINTER DRIVERS** Star/Epson/ Pan/HP
- PD408 **HP550C Printer Driver**
- PD409 **HP PRINTER DRIVERS**
- PD410 **PROF PRINTER DRIVERS**
- PD411 **STAR PRINTER DRIVERS**
- PD412 **CANON STUDIO**
- PD413 **STAR STUDIO**

COPIERS

- CP234 **FLASH COPY** Multi-tasking
- CP257 **FREE COPY v1.8** Removes protection
- CP313 **WB v2.0** Removes protection (1.3 only)
- CP340 **ASI CRUNCH 'N' COPY 2** Collection
- CP341 **COOL COPIER v2.0** Fast & safe
- CP348 **ASI DISK COPIERS** Collection
- CP349 **LOCK PIC 2** Removes protection
- CP350 **D COPY v3.1**
- CP351 **MAVERICK COPIER** Rem. protection
- CP352 **SAFE II** Powerful copier
- CP353 **MEGA MONITOR** Action replay type
- CP354 **THE DISK UTIL** WB2+
- CP355 **SUPER FORMATTER v1.0d**
- CP356 **SUPERDUPPER v2.02**
- CP357 **BAD FORMAT** Run Bad disks
- CP358 **COPIERS UNLIMITED**
- CP360 **DISKMATE** V.Good (WB2.04+)

GRAPHICS

- GU163 **3D FONTS** (3 Disks)
- GU168 **CARTOON BRUSHES**
- GU219 **TV GRAPHICS** (2 Disks)
- GU226 **GRAPHIC UTILS**
- GU227 **REAL 3D FONTS**
- GU228 **REALTIMES** (2 Disks) 3D Pics
- GU240 **RICK PARKS ART**
- GU245 **BOOTPIC V1.2**
- GU246 **CLIP-ART PORTFOLIO** (15 disks)
- GU261 **LARGE FONTS DISK**
- GU265 **SCANNER CLIP-ART** (3 Disks)
- GU266 **PG CLIP-ART**
- GU268 **EXILE FONTS**
- GU269 **DYNAMITE FONTS**
- GU270 **FONTS & SURFACES**
- GU272 **CLIP-ART VOL 1** (8 Disks)
- GU273 **CLIP-ART VOL 1** (7 Disks)
- GU274 **FONTLIB**
- GU276 **SOMETHING FOR NOTHING 1**
- GU277 **SOMETHING FOR NOTHING 2**
- GU279 **DYNAMITE FONTS 2**
- GU280 **HACK FONTS 1** (2 Disks)
- GU283 **COSMOPOLITAN FONTS 1**
- GU284 **COSMOPOLITAN FONTS 2**
- GU285 **COSMOPOLITAN FONTS 3**
- GU286 **COSMOPOLITAN FONTS 4**
- GU289 **SONIC DEV CONVERTERS PACK**
- GU290 **BEATRIX POTTER CLIP-ART**
- GU300 **GELIGNITE FONTS**
- GU309 **RAY DANCE** (2 Disks)
- GU310 **T.S.P. PICTURE FONTS**
- GU311 **DISK MANAGER + FONTS** (Plus only)
- GU312 **SHADOW MAKER**
- GU313 **MOVIE MAKER**
- GU314 **ANIMATIONS BRIDGE V1.0**
- GU315 **PLOTTING & GRAPHICS**
- GU316 **DOCK ICONS**
- GU317 **ASSASSINS MULTI-VISION V1.0**
- GU318 **THE SNOWMAN CLIP-ART**
- GU319 **PAGESTREAM 2.1 FONTS** (5 disks)
- GU320 **WALT DISNEY CLIP-ART**
- GU321 **MAGNETIC PAGES V1.3**
- GU322 **COMPUTEREYES FONTS PACK 1**
- GU325 **COMPUTEREYES FONTS PACK 2**
- GU324 **COLOURED ICONS**
- GU325 **GRAPHICS RIPPER**
- GU362 **DIRECT ACTION** Anim creator
- GU363 **M.A.X.** Mandelbrot adv kit
- GU402 **FREE PAINT** Copy of DPaint
- GU403 **VIEWTEC v1.02** AGA graphics display
- GU404 **FONTS DISK 1** Large & small
- GU405 **DIGI FONTS** Good variety
- GU406 **COLOUR FONTS 1** Modern, Olde, Pica
- GU407 **COLOUR FONTS 2** Marble, Rocks, Grids
- GU408 **COLOUR FONTS 3** Dimond, Eye, Sun
- GU409 **COLOUR FONTS 4** Digi/Font brushes
- GU410 **COLOUR FONTS 5** Cinnam 8, 16 etc
- GU411 **COLOUR CLIP-ART** Hi/Med/Low for DTP
- GU412 **COLOUR CLIP-ART** Animals
- GU413 **ANIMATIONS** B&W IFF
- GU414 **CONTACH CLIPART 1** Cartoon, Zodiac
- GU415 **CONTACH CLIPART 2** Buildings, Xmas
- GU416 **CONTACH CLIPART 3** Signs, Teddys, Work
- GU417 **GRAPHICS TOOLS 2**
- GU418 **RAYSHADE** (3 Disks)
- GU419 **PAGE TEMPLATES**
- GU420 **PRO PAGE HELP**
- GU421 **DPAINT TUTOR** Learn to use it
- GU422 **SPECTRA PAINT**
- GU423 **THE DESIGNER** Arcade backgrounds
- GU424 **RJ UTILS** Perfect Paint, Image W/Shop
- GU425 **FONT FARM 3**
- GU426 **FONT FARM 1**
- GU427 **FONT FARM 2**
- GU428 **VIEW 3.2** Anim Player
- GU429 **HAM LAB PRO v2.08** Picture Converter
- GU430 **ICONS GALORE**
- GU431 **STILL STORE**
- GU460 **QUICK GRAB** AGA
- GU462 **POST** Postscript interpreter
- GU463 **POST SCRIPT FONTS 1**
- GU464 **POST SCRIPT FONTS 2**
- GU465 **POST SCRIPT FONTS 3**
- GU466 **GELIGNITE FONTS 4**
- GU467 **ULTRAPAINT**
- GU468 **ARTISTIKS** Art package
- GU469 **BLUE ROSE FONTS 1**
- GU470 **BLUE ROSE FONTS 2**

SUPERB QUALITY CLIPART

- GU326 **ART 1** (2 Disks) Weddings
- GU327 **ART 2** (2 Disks) Houses
- GU328 **ART 3** (3 Disks) Religious
- GU329 **ART 4** WWI Aircraft
- GU330 **ART 5** (2 Disks) Men
- GU331 **ART 6** (2 Disks) Women
- GU332 **ART 7** (2 Disks) Kids
- GU333 **ART 8** Business
- GU334 **ART 9** Office
- GU335 **ART 10** Students
- GU336 **ART 11** Sale
- GU337 **ART 12** (3 Disks) Christmas
- GU338 **ART 13** (3 Disks) Punch
- GU339 **ART 14** Animals
- GU340 **ART 15** Cats
- GU341 **ART 16** Silhouettes
- GU342 **ART 17** (2 Disks) Schools
- GU343 **ART 18** Babies
- GU344 **ART 19** (2 Disks) Sport
- GU345 **ART 20** Olympic
- GU348 **ART 21** (2 Disks) Medical
- GU347 **ART 22** Sea Life
- GU348 **ART 23** Decorative Mouths
- GU349 **ART 24** Whacky (funny)
- GU350 **ART 25** Holidays
- GU351 **ART 26** (2 Disks) Old banners
- GU352 **ART 27** Art Nouveau flowers
- GU353 **ART 28** Butterflies
- GU354 **ART 29** (2 Disks) Food & kitchen
- GU355 **ART 30** Colouring book (Dpaint)
- GU356 **ART 31** Borders (DTP) (2 Disks)
- GU357 **ART 32** (2 Disks) MAC clipart
- GU358 **ART 33** Hornback (scenic)
- GU359 **ART 34** (2 Disks) Teddy Bears
- GU360 **ART 35** (2 Disks) Vanity Fair (fashion)
- GU361 **ART 36** Halloween (weird)
- GU364 **ART 37** Showtime (dancing etc)
- GU365 **ART 38** Vegetarian
- GU366 **ART 39** Floral (detailed)
- GU367 **ART 40** Myths & Zodiac
- GU432 **ART 51** Botanical art
- GU433 **ART 52** Family scenes (2 Disks)
- GU434 **ART 53** Golf Humour (2 Disks)
- GU435 **ART 54** Space & transport
- GU436 **ART 55** Soft scene 2 – Rural pics
- GU437 **ART 56** Sports 3
- GU438 **ART 57** Navy
- GU438 **ART 58** Travel (2 Disks)
- GU439 **ART 59** Alphabet (2 Disks)
- GU441 **ART 60** Accents & Flashes – stars etc
- GU442 **ART 61** Fish & aquatic pics
- GU443 **ART 62** Softscene 3
- GU444 **ART 63** Restaurant (3 disks)
- GU445 **ART 64** Mammals
- GU446 **ART 65** Anim & bird
- GU447 **ART 66** Mossburn animals
- GU448 **ART 67** Burchfield kids
- GU449 **ART 68** Beast & Myth (3 Disks)
- GU450 **ART 69** Transport (3 Disks)
- GU451 **ART 70** Trucks & trains
- GU452 **ART 71** Astrology (2 Disks)
- GU453 **ART 72** Aircraft (3 Disks)
- GU454 **ART 73** Birds – songbirds etc
- GU455 **ART 74** Dogs
- GU456 **ART 75** Houses, castles & buildings
- GU457 **ART 76** Sports – Mac
- GU458 **ART 77** Horticulture (5 Disks)
- GU459 **ART 78** Military (10 Disks)

Coloured clipart also in stock – send for details

PROGRAMMING

- PR 47 **C LANGUAGE MANUAL** (3 Disks)
- PR 49 **C LANGUAGE COMPILER**
- PR 72 **PASCAL LANG PROG**
- PR 94 **POWER LOGO v1.9** Lisp & Logo
- PR110 **PDC** (3 Disks) Programmers aid
- PR118 **BC-FORTRAN**
- PR186 **AMIGA CODERS CLUB** (6 Disks)
- PR225 **CURSOR COMPILER** Basic language
- PR239 **DME V1.45** Programmers Text Editor
- PR243 **DICE v2.06.0** (2 Disks) C Environment
- PR244 **PCQ v1.2a** (3 Disks) Pascal compiler
- PR326 **SOZOBON C DISK A2** Text link compiler
- PR355 **ASM ONE** Assembly package
- PR357 **EZASM** Assemblers
- PR358 **C MANUAL** (12 Disks) The best yet!
- PR359 **NORTH 'C'** v1.3 (2 Disks)
- PR361 **ATTIC & BLIT** Useful for 'C' progs.
- PR362 **AMIGA E** v2.1 Better than C
- PR363 **AZAPP v2.04** binary editor
- PR364 **INSTALLER** for software developers
- PR365 **MPE v1.5** M2Amiga companion
- PR366 **MODULA-2** language
- PR367 **GNU++C COMPILER** (3 Disks)
- PR368 **PCD SHELL** Pascal Compiler
- PR369 **'C' LANGUAGE MANUAL v2.0** (4 disks)
- PR370 **C++ 2LATEX** Make Latex files from C++ or C

MUSIC UTILITIES

- MU2 **MODULES ONE**
- MU3 **MODULES TWO**
- MU4 **MODULES THREE**
- MU5 **MODULES FOUR**
- MU6 **MODULES FIVE**
- MU7 **MODULES SIX**
- MU10 - MU47 **ST SAMPLES & INSTRUMENTS** (38 Disks) or buy singly
- MU48 **B CHANNEL SOUND TRACKER**
- MU49 **STAR TREKKER 1.3**
- MU51 **MODULE/SONGS 2**
- MU77 **MED 3.2** Music editor
- MU193 **OCTAMED v1.0b FFS79** Music editor
- MU256 **MULTI-PLAYER V1.11A** Music
- MU317 **DENNIS SAMPLES DISK 2** Madonna etc
- MU318 **DENNIS SAMPLES DISK 3** Baby cough etc
- MU319 **DENNIS SAMPLES DISK 4** Telephone etc
- MU321 **DENNIS SAMPLES DISK 6** Star Trek etc
- MU322 **DENNIS SAMPLES DISK 7** Heavy monster etc
- MU323 **ASSASSINS AUDIO MAGIC VOL 1.1** Lots
- MU324 **ASSASSINS AUDIO MAGIC VOL 2** Trackers
- MU325 **SOUND APPLICATIONS A & B** (2 Disks)
- MU326 **MEGA MON v 3.20**
- MU327 **SAMPLE MAKER**
- MU328 **CASIO CZ-101**
- MU329 **DX 100**
- MU330 **PENDLE EUROPA**
- MU331 **AUDIO ANIMATION STUDIO**
- MU332 **INSTRUMENTS & SAMPLES**
- MU333 **PHOTRACKER v2.2**
- MU334 **NOISETRACKER v2.0**
- MU335 **SOUND TRACKER v4.0**
- MU336 **PROTRACKER v2.3** Latest
- MU337 **ASI AUDIO MAGIC Vol 3** Trackers
- MU338 **ASI AUDIO MAGIC Vol 4** Inc Pro Tracker v3
- MU339 **OCTAMED V2.0** 8 channel MED sequencer
- MU340 **CDTV PLAYER** Simplifies audio CD's
- MU341 **SUPERSOUND v2.1** Sound sampling
- MU342 **SOUND** Sample player
- MU343 **DESKTOP GUIDE TO ELECTRONIC MUSIC** (3 disks)
- MU344 **TAB MASTER** Music to guitar translator
- MU345 **POWERCUTS** Good sound effect samples
- MU346 **BEATS** (5 disks) Drum Samples
- MU347 **VOCALS** (5 disks) Super Samples
- MU348 **DRUM KIT SAMPLES** (3 disks) High quality
- MU349 **KORG SAMPLES** Keyboard Sounds (3 disks)
- MU350 **MUSIC MODULES** (5 disks) Large modules
- MU351 **PURE SAMPLES** (3 disks)
- MU352 **METAL MODULES** (5 disks) Heavy Metal
- MU353 **CHIPMANS SAMPLE DISK** 1-70 Samples
- MU354 **SAMPLE FACTORY** Sound effects
- MU355 **DELITRACKER** Sound player
- MU356 **POWER PLAYER v2.9** module player
- MU357 **IFF BREAKBEATS 1**
- MU358 **TECHNO MODULES 1-5** (5 disks)
- MU359 **OCTAROCK 3D** Rock + Grafix
- MU360 **OCTASTUFF** For Octamed v3 &4
- MU361 **GUITAR TUNER**

VIDEO WORK

- V 99 **CATALOGUE WORKSHOP 1**
- V100 **CATALOGUE WORKSHOP 2**
- V179 **VIDEO APPLICATION UTILS**
- V180 **VIDI FONTS 1**
- V220 **VIDEO GRAPHICS** (4 Disks)
- V236 **CHENNIMATE** Reaction anims
- V345 **VIDEO WIPES**
- V401 **INSCRIPT** Video titler
- V402 **TELE TITLER 2** Hi-res – use with V408
- V403 **VIDEO EDITORS KIT**
- V404 **CAPTIONATOR** Superb video titler
- V405 **HARLEQUIN VIDEO ART 1**
- V406 **HARLEQUIN VIDEO FONTS 1**
- V407 **HARLEQUIN VIDEO FONTS 2**
- V408 **TELESCROLL 1** Video titler
- V409 **TELETITLER 3** Lo-res – use with V408
- V410 **DESKTOP VIDEO** Add scrolling titles

A1200

- WS1-5 **WEIRD SCIENCE** S/Show & music (5 disks)
- SH1-6 **SUPER HAM PICS** (5 disks) Brill!
- AU12 **JPEG AGA IMAGES** (9 disks) Superb!
- AU13 **BAD BOYZ AGA SLIDES** (10 disks) Fab!
- AU14 **SLEEPLESS NIGHTS** – 3 utilities
- AU15 **A1200 UTILITIES** – Gif & PCX datatypes etc
- AU16 **A1200 WB HACKS**
- AU17 **ANDY'S WB3 UTILS** Brill! Fakemem, AGAtest etc
- AU18 **24 BIT UTILS** – 3 conversions progs
- AU19 **WINBLEND** Fractal generator
- AU20 **JPEG UTILS** Rend 24 convertor pics
- AU21 **HD PREP** preps hard drive
- AU22 **HDMEM** needs MMU
- AU23 **RD PREP** preps rigid disk
- AU24 **HD INSTALLER**
- AU25 **MAGIC WORKBENCH** Superb icons (HD only)
- AU26 **AGA UTILITIES 2** 256 colour icon ed etc
- AU27 **AGA UTILITIES 3** Kill aga etc
- AU28 **AGA UTILITIES 4** Blank, checkaga etc
- AU29 **AGA UTILITIES 5** Degrader, AMIGAtodouble etc
- AU30 **AGA UTILITIES 6** A4091 patch, Hamß, newpop
- AU31 **A1200 VIRUS KILLERS**
- AU32 **NEW WB3 SUPER KILLERS**
- AU33 **A1200 INTROS**
- AU34 **HDY AGA DEMO 1**
- AU35 **HDY AGA DEMO 2**
- AU36 **NIGHTRIDER** (2 disks) AGA slides
- AU37 **FERRARI AGA SLIDES**
- AU38 **CYNDSTIC SLIDES**
- AU39 **KEITH RHODES PICS** Fantasy
- AU40 **RETINA BURN AGA** Brill demo
- AU41 **PAN

GAMES

- G4 **MEGABALL** Breakout – very addictive
- G5 **STAR TREK I** (2 disks) Space (Not A1200)
- G13 **CASTLE OF DOOM** Adventure
- G14 **HOLY GRAIL** Text only adventure
- G15 **GOLDEN FLEECE** Text only adventure
- G22 **CARD GAMES** Harp, Plait, Queens etc
- G23 **SUPER TWINTRIS** Shape dropping excellent
- G29 **GAMES DISK 7** Backgammon etc
- G33 **WIZZYS QUEST** * Arcade puzzle, good graphix
- G34 **RETURN TO EARTH** Elite type
- G35 **LLAMATRON** 512K & 1Mb Shoot 'em up
- G39 **BUG BASH** Shoot 'em up
- G41 **ESCAPE FROM JOVI** Space Arcade
- G43 **DOWNHILL CHALLENGE** Tactics, ski to win
- G44 **BATTLEFORCE** Fantasy roll playing game
- G45 **DRAGON CAVE** Dungeon Master type
- G49 **MECHFIGHT RPG** Roll playing game
- G52 **GREYSLAYER** Arcade adventure
- G53 **SCUM EATERS** Shoot 'em up
- G54 **STAR TREK 2** (3 disks)Not 1200
- G55 **POM POM GUNNER** * Arcade shoot 'em up
- G56 **FRUIT MACHINE** * Excellent
- G57 **MECHFORCE** (2 Disks) RPG
- G58 **SEA LANCE** * Submarine Simulation
- G59 **KLONDIKE** Cards
- G62 **AIR ACE II** World War 2 S.E.U.
- G65 **MERIV THE MERCILESS** Platform
- G67 **TREASURE HUNT** (6-8 yrs)
- G68 **CHEAT LIST GAMES V1.0**
- G69 **WHACKO JNR IN WONDERLAND** Good for kids
- G70 **PARACHUTE JOUST** Good graphics
- G71 **CRYSTAL CAVERNS** Arcade adv.
- G72 **TREK-73** Space text adv
- G73 **ZEUS – THE GAME** Puzz tiles
- G74 **DUNGEON DELVER** (2 Disks) Mazes
- G75 **PICK UP A PUZZLE** * (2 Disks) Jigsaws
- G76 **CHAINSAW DEATH** * Futuristic maze type
- G77 **CAN YOU PICTURE IT** * (2 Disks) Jigsaw
- G78 **CROSSFIRE** * Excellent for kids
- G79 **BALLOONACY** * Bomb the skyscrapers
- G81 **DEMOLISION MISSION** * Bomber
- G82 **BLACKJACK** Card game
- G84 **PETER'S QUEST** Arcade –Rescue the Maiden
- G88 **AMIGAMAN GAMES** 10 games
- G90 **SHAPES** Very playable for kids
- G91 **GO LOOLY** S.E.U. Good graphix
- G92 **STAR TREK THE NEXT GENERATION** (Not A1200)
- G93 **BLOCKIT** Good graphix – Ace
- G94 **HACK** Text adv
- G95 **DRAGON TILES** Great tiles game
- G96 **BOARD GAMES**
- G97 **ATIK ATAK** C64 game
- G99 **BART SIMPSON** Scrolling S.E.U.
- G124 **PIPE RIDER** Space Invader S.E.U
- G125 **RAMIFY** Pairing
- G126 **RUSH HOUR** Frogger – Get across the road
- G127 **TOMTESPELET** Speed ball type
- G129 **WET BEAVER GAMES** Pong
- G130 **WIZARD WORLD** S.E.U. Platform
- G131 **WORLD OF FOOLS** Shoot em up
- G133 **CARD SHARP** 5 card games
- G134 **TOTAL WAR** Risk type
- G135 **AIRMANIA** Platform
- G136 **SKYFLYER** WWII S.E.U.
- G137 **PUGGLES** C'bert brill
- G138 **SQUATS REVENGE** Wolf clone
- G139 **PAIR IT** Shapes
- G140 **GAMES COMPILATION I** 6 games
- G141 **ATLANTIS I** Strategy
- G142 **NAPOLEONIC WAR SIMULATION** Strategy
- G143 **MISSION RAID PART II** S.E.U.
- G144 **SNAKES & LADDERS** Good
- G145 **GAMES GALORE VOL 7** For the young
- G146 **AIR WARRIOR** Flight simulation
- G151 **E-TYPE** Arcade S.E.U.
- G152 **DUNGEONS OF NADROJ** Hacktype
- G153 **QUICK & SILVER** Platform. Excellent
- G154 **MASTER OF THE TOWN** Shoot the sign posts
- G156 **ETHOS** Text adv + pics
- G157 **BATTLE CARS** 3D cars S.E.U.
- G158 **CHALLENGER** Quiz - 5 player
- G162 **CATACDMB** Graphic adv – very well done
- G163 **KINGDOM AT WAR** War games
- G164 **SMASH TV RIPOFF** S.E.U. Futuristic
- G165 **DOODY** Mario type platform
- G166 **PICK OUT** Pair it. V. good
- G167 **NU-SHOOT EM UP** Space
- G169 **STRIKE BALL** Baseball. Brill!
- G190 **PARAGON** Marble Slide
- G192 **CRAZY SUE** Platform. 1st rate
- G193 **HENRY IN PANIC** Manic Miner type
- G194 **CONCENTRATION V3.3** Pair it type
- G195 **DESTINATION MOONBASE** Thrust
- G196 **ESCAPE FROM JOVI II** Saves
- G197 **NO MANS LAND** War S.E.U.
- G198 **DOMINOES** V. Good
- G199 **RAPHAELS REVENGE** Turtle S.E.U.
- G200 **MIDNIGHT THIEF GAME** Adv
- G201 **LAMER GAME** Wolftype shoot the beasties
- G204 **GRUB GRABBER II** Help Elvin! Avoid gremlin
- G205 **SWORD OF WORLOCK** 3 disk Adv.
- G206 **A NIGHT AT THE TOP** Terrorist adv
- G208 **QUADRIX** Puzz. Excellent
- G209 **YUM YUM** * Pacman
- G210 **REVENGE MUTANT CAMELS** S.E.U.
- G211 **BATTLEMENTS** Hunchback platform
- G212 **LEMMINGOIDS** Blast them!
- G218 **KARATE WORM** Platform-cute
- G219 **SNAKE IN THE GRASS** Platform – neat
- G221 **WIZARDS DOMAIN** Graphic adv
- G222 **PIXIE KINGDOM** (2 disks)
- G223 **ARCADIA** Breakout – very popular
- G224 **PORK A PORK** Stop the foxes
- G225 **MR BRICK** – Mario type
- G226 **RAID III** S.E.U. – wicked
- G227 **SERENE III**
- G228 **WOTSITSNAME** Quiz
- G229 **TETREN** – tetris
- G230 **NUMPTY & THE ALIEN INVADERS**
- G232 **LOTHIAN** Graphic adv
- G233 **OMEGA RACE** S.E.U. Great
- G234 **MENTAL IMAGES DISK 2** 3 games
- G262 **MR & MRS** Young platform – very good
- G263 **TANX** Great 98%
- G264 **DEFENDA** Arcade 95% Brilliant conversion
- G265 **GRAND PRIX SIMULATOR** Mega
- G266 **NUMBER FUMBLER** Number puzzle
- G267 **LEMMINGOIDS** Blast away
- G268 **GROWTH**
- G270 **PROJECT 1**
- G271 **LAZER ZONE**
- G272 **LEMMINGS PACK**
- G273 **THE MAZE GAME**
- G275 **APIOYA**
- G276 **SHOOT OUT**
- G277 **SUPER SKODA CHALLENGE**
- G278 **COMPUTER CONFLICT 2**
- G279 **ANTEP & SLOT CARS GAME** RPG
- G280 **TRICKY & THE TURN GAME**
- G283 **CARD GAMES 2**
- G285 **MIND GAMES 21**
- G286 **HYPER TEXT CHEATS**
- G287 **TECHNOBAN** Puzzle game
- G289 **THE BEAST** Mission to kill
- G290 **NADILOT RUN** Cat & dog chase
- G291 **OUCH** Clobber those moles
- G292 **ABSOLUTE ADV VOL ONE**
- G293 **CHAOS STRIKES BACK** Maps etc.
- G294 **GAME TAMER v4.59** Latest
- G302 **AMOS CRICKET** Good cricket game
- G303 **ARAZNAX** 40 levels
- G304 **HELL ZONE** Elite
- G305 **FATAL MISSION** Good shoot 'em up
- G306 **GHOSTSHIP**
- G307 **CROSSMAZE/CRYPTO KING** Words
- G308 **INTERLOCK (AMOS)** 25 levels
- G309 **TANK ATTACK & MOUTHMAN**
- G311 **THRALLBOUND** Viking Adv Text
- G312 **BOUNCE AND BLAST** Platform
- G313 **SOCCER CARDS** Run the club
- G314 **CYBERNETIZE** Fast action
- G315 **STAR MIX 2** 3 games
- G316 **FLAG CATCHER** Squares puzz
- G317 **OMEGA** Adv Moria type
- G318 **TOP SECRET** Excellent graphics platform
- G319 **MADONNA** Jigsaw
- G320 **ROBOCOP GOES TO IRAQ** seu
- G321 **BACK TO THE FUTURE III** Funny
- G322 **45 CHEATS** Codes etc
- G323 **TOMCAT** F15 shoot 'em up
- G324 **SUPER QUIZ**
- G325 **POWER PONG** Boing
- G326 **MAHJONG** Tiles
- G327 **NESTER** Cards
- G328 **STARFLEET** Shoot 'em up
- G329 **EXCALIBER** Shoot 'em up
- G330 **IMPERIUM ROMANIUM** Battle
- G331 **SQUAMBLE** Very Spacey!!
- G332 **JETMAN** Good shoot em up
- G333 **MECHFORCE v 3.71** Latest update
- G334 **PROPERTY MARKET GAME** Strategy
- G335 **ROLL ON & LAMER** Pushing
- G336 **HACKLITE v 1.0** Moria & Hack
- G338 **DIE FILTH** (2 disks) Brill like Swiv
- G339 **ULTIMATE HINT KIT v1.0**
- G340 **THE ACE CHEATS DISK 2** Lots
- G341 **BATTLE OF BRITAIN** Strategy
- G342 **THE SECRET OF MONKEY ISLAND** (Demo)
- G344 **ESCAPE II** Creating games
- G345 **QUIZMASTER v 1.0** Test your knowledge
- G346 **NEBULA** Shoot-em-up fast action!
- G347 **ESCAPE** Into space!
- G348 **RUMMY** Excellent card game
- G349 **SPACE RESCUE** Super shoot 'em up
- G350 **INVADERS MARK II** Space invaders
- G371 **ERIC THE WARRIOR** Sim to Gauntlet
- G372 **KLAKTRIS** Tris type game
- G373 **CLI-TRIS** Latest TRIS
- G374 **DELUXE PACMAN**
- G375 **GALAGA 92** Shoot-em-up
- G376 **LIBERATOR GAME** Shoot-em-up
- G377 **ACK-ACK**
- G378 **CRAZY SUE 2** Latest platform
- G380 **LAST REFUGE** Invaders
- G381 **ZINGGER GAME** Karate game
- G385 **MORIA v5.4** Latest
- G386 **FRUIT MACHINE II** AMOS good
- G387 **OBLIVION** Defenda clone
- G388 **ROMS JACKY** Platform
- G390 **OTHELLO** Board game classic
- G391 **SOLITAIRE SAMPLER** Cards
- G392 **WILLY IN THE CASTLE** Excellent platform
- G393 **FRUIT SALAD** Platform. Reviewed in Format
- G394 **MARIO IN WONDERLAND** Brill clone – Mega!
- G396 **GIDDY** Great new platform game
- G398 **ATOMS** Weird!
- G399 **VECTA STORM** Brill new Tempest clone
- G400 **DIGITAL TETRIS**
- G402 **TETRIS PRO**
- G403 **SUPER PACMAN 92**
- G404 **BRIDGE**
- G405 **18th HOLE GOLF** (2 disks)
- G406 **SLIDE SQUARES** Puzzle
- G407 **THEY CAME FROM OUTER SPACE** Shoot em up
- G408 **SON OF BLAGGER** Excellent platform
- G409 **BRAINBOW** Addictive puzzle
- G410 **MYSTERY 2144 AD** Futuristic Murder adv.
- G411 **GUSH** Fab pipeline clone
- G412 **MEXICAN MASSACRE** Arcade action
- G413 **100 MEGA GAMES** (7 disks)
- G414 **BOX** Adventure game
- G415 **SLAMBALL** Future Management sim.
- G416 **MAYHEM2** Multi player manic maze.
- G417 **MUGSIE** Money making gangster adventure.
- G418 **ROULETTE + PUNTO 2** Good game (not 1.3)
- G419 **BLITZ GAMES** Worm, buzzbar, speed etc.
- G420 **SKID MARKS** Amazing driving game.
- G421 **ZOMBIE, APPOCOLIPS AND DEFENDER 2** Brill!
- G422 **BILLY BURGLAR** Just try to escape.
- G423 **OLYMPIAD** (Lemmings) (2 disks)
- G424 **CAVE FLIGHT** Dodge the obstacles.
- G425 **SERIOUS BACKGAMMON** Demo
- G426 **AIRPORT**
- G427 **EXIT-13** Puzzle
- G429 **BOW & ARROW**
- G430 **BLOAD RUNNER**
- G431 **POPEYE** Demo
- G432 **CASTLE NORRIS**
- G433 **THE RIGHT WAY** Lemmings
- G434 **PATIENCE** Cards
- G435 **PREMIERE PICKS** Football
- G436 **BOB N' FLOP**
- G437 **ROAD TO HELL** Racing brill!
- G438 **FIGHTING WARRIORS** Street Fighter 2 clone
- G439 **LEMMINGS 2** HD install
- G440 **NAPOLEONIC WARFARE** (2 Disks) Strategy
- G441 **TEXAS CHAINSAW MASSACRE**
- G443 **SCRABBLE**
- G444 **SMURF HUNT**
- G446 **THRUST DUEL** Gravity control
- G447 **EXORCISM** (2 Disks) Adv. & graphics
- G448 **CONQUEST & DOMINATION** Strategy war game
- G450 **DONKEY KONG** Platform
- G451 **OPERATION METEOR** 3D Graphics
- G452 **MR MEN OLYMPICS** (2 Disks)
- G453 **SUITCASE** (2 Disks) Adventure
- G454 **ESCAPE FROM DOOM** RPG type
- G455 **HIGH OCTANE** Overhead driving
- G456 **FATAL MISSION 2** Shoot em up
- G457 **KUNG FU CHARLIE** Platform beat em up
- G458 **GAMES GALORE 13**
- G459 **MENTAL IMAGES Vol 2**
- G460 **IRON CLADS** (2 disks) Naval battle Not 1200
- G461 **INTREPID** Rescue Dame form Evil
- G462 **QUIZ MASTER**
- G463 **QUIZ CHALLENGE**
- G464 **EYE OF BEHOLDER II** Cheats
- G465 **CHEATS** Many solutions
- G466 **PASSWORD PARADISE**
- G467 **MEGACHEATS v3.0**
- G468 **ELEVATION 2** Platform
- G469 **SCORCHED TANKS** Battle
- G470 **AMOS LOADSAMONEY** Fruit machine
- G471 **STAR TREKING TRIVIA** (2 disks)
- G472 **SUPER TOMCAT** Shoot 'em up
- G473 **LCD DREAMS** Hand held games
- G474 **SEAHORSE GAMES CHEATS**
- G475 **NOSTROMO CHEATS & SOLVES**
- G476 **ORC ATTACK**
- G477 **TANK HUNTER**
- G478 **RAID 4**
- G479 **MEGABALL 2**
- G480 **MEGABALL 3**

BOULDERDASH

Most titles now work on A500/A500+/A600/A1200/A4000

- BD 1 - FLASCHBIER I
- BD 2 - FLASCHBIER II 1.3 only
- BD 3 - BOULDERDASH COLLECTION I
- BD 4 - BOULDERDASH COLLECTION II
- BD 5 - BOULDERDASH COLLECTION III
- BD 6 - EMERALD MINE BOULDERDASH 1/2/3/4/+ Construction Kit
- BD 7 - EMERALD EAT MINE
- BD 8 - EMERALD MINE TOOL ED v 4 (2 disks)
- BD 9 - EMERALD MINES CAVE EDITOR
- BD 10 - EMERALD PRO
- BD 11 - EMERALD PRO 3
- BD 12 - EMERALD PRO 4
- BD 13 - EMERALD PRO 4 EXTRA
- BD 14 - CAVES EMERALD MINE 2
- BD 15 - EMERALD MINE TUTORIAL - 2nd Pt
- BD 16 - EMERALD MINES 2 1.3 only
- BD 17 - EMERALD MINES 3
- BD 18 - EMERALD MINES 4
- BD 19 - EMERALD MINES 10
- BD 20 - EMERALD MINES 11
- BD 21 - EMERALD MINES 12
- BD 22 - EMERALD MINES 13
- BD 23 - EMERALD MINES 14
- BD 24 - EMERALD MINES 15
- BD 25 - EMERALD MINES 18
- BD 27 - EMERALD RUNNER MINE 1
- BD 28 - EMERALD RUNNER MINE 2
- BD 29 - EMERALD EATER
- BD 30 - THE NEW EMERALD MINES 1.3 only
- BD 31 - RECYCLED EMERALD MINES 1
- BD 32 - RECYCLED EMERALD MINES 2
- BD 33 - EMERALD HEAD
- BD 34 - DANMARK II
- BD 35 - MARATHON MINES 1
- BD 36 - MARATHON MINES 2
- BD 37 - MARATHON MINES 3
- BD 38 - BOND MINES 1
- BD 39 - BOND MINES 6
- BD 40 - RUPPLE MINES
- BD 41 - EASY RUPPLE MINES
- BD 42 - RUPPLE MINES EDITOR
- BD 43 - WATER MINES
- BD 44 - ADVENTURES OF MR B - Part 2
- BD 45 - EAT MINES 1
- BD 46 - EAT MINES 2
- BD 47 - EAT MINES 3
- BD 48 - EAT MINES 10
- BD 49 - NO ONE MINES 1
- BD 50 - NO ONE MINES 2
- BD 51 - NO ONE MINES 3
- BD 52 - NO ONE MINES 5
- BD 53 - NO ONE MINES 6
- BD 54 - NO ONE MINES 7
- BD 55 - NO ONE MINES 8
- BD 56 - NO ONE MINES 9
- BD 57 - NO ONE MINES 10
- BD 58 - SPUD MINES 3
- BD 59 - ENEMY MINES 1.3 only
- BD 60 - BOBBYDASH
- BD 61 - DENMINE 1
- BD 62 - LADYBIRD MINE - KIDS
- BD 63 - INTO THE FUTURE FIELDS
- BD 64 - INTO THE FRUSTY FIELDS
- BD 65 - INTO THE COLD CAVES
- BD 66 - LABAN MINE
- BD 67 - FUN MINE 1 1.3 only
- BD 68 - ACE MINE 1
- BD 69 - SUPER AMIDASH
- BD 70 - ROCKNUTS 1 1.3 only
- BD 72 - BOULDERDASH C64
- BD 73 - PROFESSIONAL BOULDERDASH 1
- BD 74 - PROFESSIONAL BOULDERDASH 2
- BD 75 - FIRST CLASS BOULDERDASH 1.3 only
- BD 76 - BOULDERDASH CONSTRUCTION KIT 1.3 only
- BD 77 - OFFICIAL BOULDERDASH
- BD 78 - MEGA BOULDERDASH 1.3 only
- BD 79 - STONEAGE
- BD 79A- STONEAGE (PLUS COMPATIBLE)
- BD 80 - LITTLE BOULDER
- BD 81 - BOULDERS GROVE + EDITOR
- BD 82 - CAVE RUNNER
- BD 83 - DENMINE 2
- BD 84 - DENMINE 3
- BD 85 - DENMINE 4
- BD 86 - DENMINE 5
- BD 87 - DENMINE 6
- BD 88 - EMERALD EATER 1
- BD 89 - EMERALD EATER 2 1.3 only
- BD 90 - EMERALD MINE 5
- BD 91 - EMERALD MINE 6
- BD 92 - EMERALD MINE 7
- BD 93 - EMERALD MINE 8
- BD 94 - EMERALD MINE 11
- BD 95 - EMERALD MINE 16
- BD 96 - EMERALD MINE 17
- BD 97 - NO ONE MINE 4
- BD 98 - NO ONE MINE 12
- BD 99 - NO ONE MINE 13
- BD 100 - NO ONE MINE 14
- BD 101 - NO ONE MINE 15
- BD 102 - NO ONE MINE 16
- BD 103 - SUPER EMERALD MINE LAZER
- BD 104 - ADVENTURE OF MR B - Part 1
- BD 105 - RUNNER MINE 3
- BD 106 - RUNNER MINE 4
- BD 107 - BOND MINE 2
- BD 108 - BOND MINE 3
- BD 109 - BOND MINE 4
- BD 110 - BOND MINE 5
- BD 111 - BOND MINE 7.5
- BD 112 - BOND MINE 8
- BD 113 - BOND MINE 9
- BD 114 - BOND MINE 11
- BD 115 - RABOLDIX
- BD 116 - RUPPLE MINE 5
- BD 117 - RUPPLE MINE 3
- BD 118 - RUPPLE MINE 2
- BD 119 - RUPPLE MINE 4
- BD 120 - BLUE DIAMONDS 4
- BD 121 - INTO THE FRUSTY MINES
- BD 122 - SNAILMINE 1
- BD 123 - OZ MINE 1
- BD 124 - OZ MINE 2
- BD 125 - OZ MINE 3
- BD 126 - BONDMINE 10
- BD 127 - DANMARK 1
- BD 128 - EXPERT MINE 1
- BD 129 - EXPERT MINE 2
- BD 130 - ROCKNUTS 2 1.3 only
- BD 131 - EMERALD CRUNCHER
- BD 132 - EMERALD CRUNCHER 1
- BD 133 - JUNIOR ICE MINE 2
- BD 134 - RECYCLED MINES III
- BD 135 - EMERALD FREAK
- BD 136 - FREAK MINE 1
- BD 137 - FREAK MINE 2
- BD 138 - EXCEPTION 1
- BD 139 - JUNIOR 1
- BD 140 - DIAMOND MINE 1
- BD 141 - EMERALD FREAK II
- BD 142 - RUNNER MINE 5
- BD 143 - BUGMINE 1
- BD 144 - BUGMINE 2
- BD 145 - BUGMINE 3
- BD 146 - VENOM 1
- BD 147 - VENOM 2
- BD 148 - INTO THE HISTORY HOLES
- BD 149 - NORTHLIGHT MINE 1
- BD 150 - EMERALD MINE TUTORIAL
- BD 151 - EMERALD MINE TUTORIAL 3
- BD 152 - EMERALD MINE FINAL 1.3 only
- BD 153 - NEW EMERALD MINES 1.3 only

BOULDERDASH PACKS:
Any 10 = £12.50 Any 20 = £20.00
Any 50 = £47.50 Or Singly at PD Prices

DEMOS

- D110 **BUDBRAIN MEGADEMO 3**
- D143 **END OF THE CENTURY 1996** No Brain-No Pain
- M159 **PINK FLOYD - THE WALL** (6 disks, 2 drives, 1.3 only)
- M183 **SANITY - YESTERDAY** Brill!
- D201 **CRIONICS MEGADEMO**
- D207 **KEFRENS MEGA DEMO VIII** (2 disks)
- D304 **UTOPIA TOTAL CONFUSION**
- D306 **ANARCHY-SEEING IS BELIEVING**
- D307 **CRIONICS HARDWIRED** (2 disks)
- D308 **RAZOR 1911 VOYAGE**
- D310 **WACKO METAPHORPH ANIM ***
- D311 **ROBOCOP/RUNNING MAN ANIM ***
- D312 **KEFRENS DESERT DREAM 1993** (2 disks)
- D313 **JESUS ON E'S** (2 disks) 20 mins WOW!
- D317 **TECHNOLOGICAL DEATH** Like space balls Mega!
- D318 **SPACE BALLS** Brill!
- D319 **TEKNO-A-TAK MEGA RAVE**
- D321 **TROJAN TECKNO TRACKS**
- D322 **DANCE TRASH** (2 disks) Rave
- D324 **SILENTS DEMON DOWNLOAD** (2 disks)
- D326 **THE GATHERING 93** Stunning pics!
- D328 **CYCLIC ART**
- D330 **SILENTS EXPOSE** (2 disks)
- D331 **POSEIDON CEREBAL LOBOTOMY** (not 1.3)
- D332 **BATTLE OF BRITAIN** Anim
- D333 **STONEARTS ATMOSPHERE** Great!
- D334 **KEFRENS DANE** Short & Sweet!
- D336 **SPACEBALLS MOBILE**
- D342 **MAYDAY RESISTANCE** Rave & Strobes
- D343 **ANDROMEDA** (2 disks)
- D344 **VANISH WORLD OF COMMODORE**
- D345 **SANITY WORLD OF COMMODORE**
- D346 **TRIP TO DEEP SPACE** (2 disks) Mega Rave
- D347 **LEMON RINK A DINK** (not 1200) Classy
- D348 **ALCHEMY RAGE** Great (2 disks)
- D349 **ELENIUM DEVIOUS MUSIC** (2 disks) 1.3 only
- D350 **TRS** I One year on
- D351 **PSYCORE ALIEN ENCOUNTER**
- D352 **MIND RIOT ANDROMEDA**
- D353 **PENDLE EUROPA KAOS THEORY** Techno
- D354 **THUNDERBIRDS ARE GONE** Anim (2 disks)
- D355 **AKIRA AND X-MEN GLIDES**

CLR LICENCEWARE

WE STOCK THE FULL RANGE OF CLR – PLEASE SEND FOR DETAILS OR ORDER WITH APPROPRIATE NUMBER

PRICES

1 Disk Program = £3.50
2 Disk Program = £4.50
3 Disk Program = £5.50

ASSASSINS

Most now work on A500/A500+/A600/A1200

- ASI 1 Tanx, Rollerpede, Avatrix Armageddo etc!
- ASI 2 Invaders, Bally 2, Missile Command etc!
- ASI 3 Megaball & Drip Superb Gamepack!
- ASI 4 Frogger Go Moku, Cracker Jumpy etc!
- ASI 5 Raid, Go Looly & Retaliator
- ASI 6 Pacman Downhillchallenge Welltrix etc!
- ASI 7 Moonbase, Trix, Nightworks Clauderunner!
- ASI 8 Airace 2, Roall, Snakepit & Numberfumbler!
- ASI 9 Lemmings Battle Pong & Blizzard!
- ASI 10 Escape, Pipeline, Pickout & Sys!
- ASI 11 Dad, Connex, Reversi Towers & Trippin
- ASI 12 Llamatron, Car, Powerpong, XP1, Fab!
- ASI 13 Twerps, Squamble, Block it, Ball etc!
- ASI 14 China Challenge 2 & Amiga Columns!
- ASI 15 Battlecars Leftrix & Mambamove!
- ASI 16 Wastelands, Mission X, Dellemna, Pacman
- ASI 17 Lotsa Cash, Defenda, Jetman, Bugblaster
- ASI 18 Henry in Panic, Skyflyer, Omega Race!
- ASI 19 Growth, Frantic Freddy, Biplane & More! + NOT 600
- ASI 20 Microbes Hollywood Trivia Coin Drop
- ASI 21 Zeus, Tettrix, Battlements & Dragontiles
- ASI 22 Lemmingoids, Wizzys Quest, Duel Mouthman
- ASI 23 Quick Money, BIP, Interferon, Arcadia
- ASI 24 Revenge of Camels, Dux Croak, Idmaze etc!
- ASI 25 Mr Brick, Copper, Hemeroids, E Type
- ASI 26 Superpacman 92 Smashtv, Ashido System 4 etc!
- ASI 27 Addictive Card Games, Really good!
- ASI 28 Klonk, DrMario, Invaders 2, Magbomber 2
- ASI 29 DOG, Rome, Nova, B-Bal, Atax, Quadrix
- ASI 30 Bounce & Blast, Total Fire Tank Attack!
- ASI 31 Arazmaz, Crazy Pipe, Revolution etc!
- ASI 32 Blob, Sector One & Firefighter!
- ASI 33 Hyperball & War! 2 Good Games
- ASI 34 Trailblazer, Yelp, Qbic Rushour!
- ASI 35 Poing, Snakepit, Cybernetix, Jump n Roll!
- ASI 36 Mother Iode, Wonderland, Kong Tactix!
- ASI 37 Klaktris, Ghostship, Paccer etc!
- ASI 38 One on One, Baldy, Skyflyer 2, Transplant!
- ASI 39 Lots of Card Games on this disk!
- ASI 40 Disk full of sliding puzzle games!
- ASI 41 Pacman deluxe, Rollzone, Leap II etc.
- ASI 42 Galaga, Intruder Alert Dogs in Space!
- ASI 43 Interlock Roulette Octothello etc!
- ASI 44 Nibbler, Mouse Impossible, Roll on etc.
- ASI 45 Otris, Paccheese, B-Castle Teserae etc.
- ASI 46 Amiga Q, City, Checkers, Ouch etc!
- ASI 47 Elevation, Furmyre, Crave, Arena!
- ASI 48 Point to Point, Psycho Santa etc!
- ASI 49 Deathbringer in Space Sue 1+2 etc!
- ASI 50 Euphonics, Hoach Motpl, Balders Grove!
- ASI 51 Gamers, Fighting Warrior Shapes!
- ASI 52 Hockiside, Mouthman, & Nu!
- ASI 53 Venus Invaders, Mastermind etc!
- ASI 54 Serene, Serene II, & Car Wars!
- ASI 55 Pacattac & Asteroids!
- ASI 56 Stormeagle, Extreme Violence & Tiles!
- ASI 57 Poo-poo Dominoes Dizzy Diamonds Squirm
- ASI 58 Super Raid 4 Magnatron & Maiessae!
- ASI 59 Super Thrust GA200 & Leedings!
- ASI 60 Pipe Master 2, Alien Hunter & Checkers!
- ASI 61 Rattlesnake Running Chaser Scud Blaster
- ASI 62 Pipeline 2 Mazeman & Up and Down!
- ASI 63 Nautilus Frenzy & Drive III!
- ASI 64 Oblivion (tab!), Breakout con kit etc!
- ASI 65 Paranoids Chess Word Puzzle Word Search
- ASI 66 Cow Wars Asmastermind & Asokoban!
- ASI 67 Siege of the Beast, E Type II & Vektor!
- ASI 68 Demolition Mission, Bounder & Atoms!
- ASI 69 Klondike, Celestial Apoker Bridge etc!
- ASI 70 Digital Tetris, Wrangle & Tetris pro!
- ASI 71 Numenix, Battleships & Vs Tanks!
- ASI 72 Escape pre, Bouldercash (not 1200) Carll
- ASI 73 Lexess, Concentration & Challenger!
- ASI 74 Crazy Pipes II, Bombjacky & Chute!
- ASI 75 Double-squares, Colours & Diamond Thief
- ASI 76 Gnu Chess, Cubus & Gerb!
- ASI 77 Balloonacy, Cliffhanger & Descender!
- ASI 78 Little Boulder, Headgames Fruit Panic!
- ASI 79 Gray Attack, Boulderdash Collection II & Atoms!
- ASI 80 Army Miner, Flig -it, Golf The Gallows etc.
- ASI 81 Amos Defence, Thunder Tron & Gergundula!
- ASI 82 Artillervs Shuttle Run & Arcade Volleyball
- ASI 83 Loadsamoney, Pong & Spider(cards)!
- ASI 84 Enigma, Atishoo & Zerberk!
- ASI 85 Paradox pre, Matchcards Rubik & Bagitman!
- ASI 86 Smurfhunt, Lords of Host, Legend of Lothian
- ASI 87 Aztec Challenge, Jonus Fullstrand & Landmines
- ASI 88 Defender, Reliqver & Mosaic!
- ASI 89 Megaball 2.1, X fire and Cluedo!
- ASI 90 Flashbier, Startans & Minefield!
- ASI 91 Roton, Matrix & Spectrum!
- ASI 92 Bill, Oblidox & Super Jumpler!
- ASI 93 Smash Bang Wallop, Mr Munk & Alien Bash!
- ASI 94 Super Skoda Challenge, Merchamoid & Giddy!
- ASI 95 Premier Pics, Tangle, Bop & Flop & Super League Man
- ASI 96 Dungeon Flapper, Backgammon Tumble Tots Rasterbike
- ASI 97 Bunnyblast, Mutants from Mars, New Stubb City!
- ASI 98 Skychase, The Phone Company & Nestor Cards!
- ASI 99 Gribit, Paranemmix, Space Wars & Org!
- ASI 100 Bloodrunner, Patience & Monaco!
- ASI 101 Meltdown, Paragon Boomerang & Rothello!
- ASI 102 Fruit Salad, Rebound & Pacsim!
- ASI 103 The Lost Docrest, Wacky Wabbit & Megarace!
- ASI 104 Wooden Ball, Operation Meteor & Pork A Pork!
- ASI 105 Particle Man, Rummy & Desert Defender!
- ASI 106 Simon, Cosmoroids II, Willy Worm & Micro Market!
- ASI 107 Serene III, 4 Row 3D, Equilog & Yacht C!
- ASI 108 Strikeball, Ringwar, Four in a Row & Obsess!
- ASI 109 Psyco Blast, King High, Deluxe Hamburg, Thrallbound
- ASI 110 Space Rescue, Tiles Zorg & Huskerou!
- ASI 111 Karate Worm II, Stax & Billy Dragon!
- ASI 112 Thunderton II, Aliens, Tron & Step 2!
- ASI 113 White Rabbits Preview, Trek Trivia & Popeye!
- ASI 114 International Cricket, Pre Insectoids II & Yum Yum!
- ASI 115 Star Trek Shoot Up, Egyptian Run, Slime Line & Shark!
- ASI 116 Blue Diamonds 4, Tsch & Sorry!
- ASI 117 Air Warrior, Triple Yachtzee & Youpi!
- ASI 118 Zombies, Armyminnes 14 & The Last Tetris!
- ASI 119 Robouddix, Speed (cards) & Trik Trak (Backgammon)!
- ASI 121 Chainsaw Massacre, Brainbow & Worm!
- ASI 122 Boulderdash Collection, Project Buzzbars & Xenon III
- ASI 123 Artillerve II, Lamerbug & Yahtzee II
- ASI 124 Mr & Mrs, Elevator II, Fraser Backgammon!
- ASI 125 Namegame, Marbleside & Snake!
- ASI 126 Short Out, Kynaston Kid & Dodge Ems!
- ASI 127 Shanghai 93, Lazer Zone & Dod!
- ASI 128 Space Invasion, Deluxe Pacman 1.4 & Solarys Wars
- ASI 129 Boulderdash Royal, Trax & Trax Editor!
- ASI 130 Chain Reaction, Batman & Uggo!
- ASI 131 Tykkipeli, Tetron & Skeet Shooting!
- ASI 132 Firefly, Quantum & Pac Mac!
- ASI 133 2myx, Proker and Syzygy
- ASI 134 Cross Circuit, Fwuff & Circuit Wars!
- ASI 135 Gammon 1.3, Ack-Ack, Pipeline 4 & Tetrix!
- ASI 136 Hot Blox, Super Pong & Sniffbark!
- ASI 137 Blockster, Escapade & Squigo!
- ASI 138 Galactoid, Scorched Tanks & Air Hockey!
- ASI 139 The Big Game, Bat Dog & Armganoid
- ASI 140 Fatal Mission II, Chronic Hedgehog Megaworm
- ASI 141 Black Down, Reversi II & Gold Rusher!
- ASI 142 Ruedia, Galaxy 93 & Courtroom!
- ASI 143 Intense, Xatoms & Pontoon (cards)
- ASI 144 Brain Shave, Nibbly Nibble, Rejection & Cube
- ASI 145 Puzzword, Kung Fu Charlie & Super Pong!
- ASI 146 Entity, Battlecars II, Amastermind & C Solitaire
- ASI 147 Backgammon D Luxe, Tuts Tomb, Mancals & Parattack!
- ASI 148 Pollymorf, Nostalgium, Megamind
- ASI 149 Glodrick, Web II, Eric Watch Your Step
- ASI 150 O-Solve, Dot2Dot, Tactik Tank
- ASI 151 Krillian Incident, Caffeine Free Diet, Zyrad
- ASI 152 Klawz, Dictator 2, Big Will & Sticky Troll!
- ASI 153 Exit 13, Beetle
- ASI 154 Wackmen, Bob's Garden, Kaboom
- ASI 155 Megablock, Digger, Crazy Clock

ASSASSINS PACKS – Any 10 = £12.50; Any 20 = £20; Any 50 = £47.50; or singly at PD prices

DELTRAX PD (AC),
36 Bodelwyddan Ave,
Old Colwyn,
Clwyd LL29 9NP

DISK PRICES:
1-2 Disks = £2.00 each, 3-15 Disks = £1.50 each
16-24 Disks = £1.25 each, 25+ Disks = £1.00 each

Overseas orders welcome payable in sterling please.

Catalogue disk £1.00. Fast, reliable friendly service.
Make cheques/postal orders payable to "DELTRAX PD"

POSTAGE & PACKING:
UK = 60p per order;
Europe = +20p per disk; R.O.W. = +40p per disk

Note: Prices are per disk and not per set

CLIP & POST

DEPT (AC)

Name .....

Address .....

.....

..... Postcode..... Tel.....

public sector

What costs next to nothing and regularly puts the big league to shame? Public domain, shareware and licenceware, of course. Adam Phillips follows this month's bargain basement offerings

If you flick through this magazine, you'll stumble across pages made up of listings with a phone number at the bottom. Unless you're reading another kind of mag altogether, you'll see that these are the advertisements for the various PD libraries all round the country that offer excellent value for money and some of the most intriguing and interesting software on the Amiga scene. Like...

Dithell in Space

Programmed by: D Ithell

Available from: D Ithell

It's always a pleasure to give room in these pages to a product that boasts playability and professiónalism in one package. Dithell in Space is one such title which is both entertaining and addictive.

Set over 50 missions, the player takes on the role of the hero of the title, Dithell (presumably major, sergeant or other space adventuring title).

The game is a cross between Jetpac (the old Ultimate classic) and a sideways shoot-'em-up. For example, the first mission is set on the moon – aliens have invaded and you've been sent to clear the little suckers out with a large laser rifle.

Using your jetpac, move around the landscape blowing the xenomorphs to kingdom come and picking up any bonuses or power-ups along the way – the latter improve the power of your gun and so on.

On completion, you're scooped up by your spacecraft and head into an asteroid belt to blow the rocks to pieces for points with your ship.

It's this variety in gameplay that gives Dithell in Space an edge over the competition. The only real gripe is the sometimes highly sensitive controls that can send you hurtling feet first into the enemy, or an abyss.

Despite this, with the split-screen two-player game and effective use of graphics and sound as well, this is great value for money and a fun game to play.

Shoot the bad guys, in this case, aliens and make a hasty escape in Dithell in Space

Bon Appetite

Programmed by: Boris Shor

Available from: Scribble PD
Disk No U233

For connoisseurs of food who wish to bring their culinary talents into the technological age then Bon Appetite could be an ideal cooking companion.

The program is simply a database to store all your recipes on. By entering details of ingredients, their amount, a description of the cooking techniques required and any other details, an extensive computerised cookery book can be built up for easy updating and unfussy presentation.

Just think – no more risking the treasured family recipe book as it sits precariously close to the overflowing casserole dish as you add herbs and spices – simply print the database out and have no fear that the original is anywhere near the fruits of its chef's labours.

Half a ton of chutney, a donkey and one sticky bun and what have you got? Bon appetite – a cooking database as used by Charlie Chuck

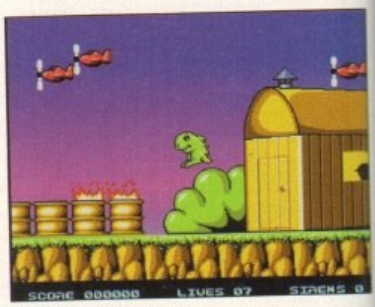
Hoi AGA Remix

Programmed by: Team Hoi

Available from: Graphic F/X
Disk No AA 046

One of three platform-based games on offer this month, Hoi is by far the most attractive and enjoyable. Originally released as a full-priced game, it has now been given an AGA facelift and presented to the buyer as a five-leveller.

Featuring a dino in the lead role, the player must move around the varied and interesting landscapes picking up diamonds and generally avoid being stung by bees or cut into pieces by propellers and other varying hazards. Each of the levels is



Smooth graphics and smoother game play make Hoi a must-purchase – a superior professional PD product

MUSIC DEMO of the MONTH

Neural Assault

Produced by: Rage

Available from: PD-Soft
Disk No 3636

I have been swamped, nay, marooned by music demos this month. After ploughing through all of them, I came to the conclusion that most are not worth the punters' money and, more to the point, lack any individual imagination.

Enter Neural Attack from Rage and the

quite different – one takes you under water, the other through a forest and one through a lethal construction site.

The penultimate level consists of the dino strapping on a jetpac and blasting anything that gets in the way, and the final stage sees your Jurassic dude rushing through a various obstacles too reach the end as everything begins to fall to pieces around him, threatening to whisk him off down into an abyss.

The only negative that I managed to stumble across was the irritating law of gravity that seemed to plague the game – make your fall too large and it's bronto burger time as your character dies (the death effects are excellence as well). The problem is that you don't have to fall very far at all.

Despite this shortcoming, Hoi AGA is a charming title which will appeal to adults and kids alike. Recommended.

Techno Merda II

Produced by: RamJam

Available from: PD-Soft
Disk No 3638

Italy is known for its passion and pasta. Never before have I seen a music player program on the PD that can be described as so... errr... individual.

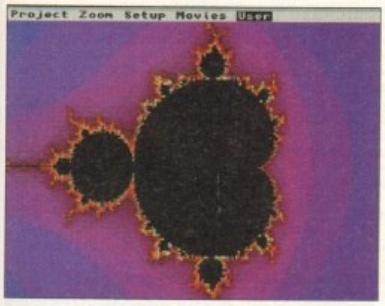
Coming on strong on two disks, Techno Merda II consists of four "songs" and accompanying (in some cases, graphic) images. On playing the first, three simply-drawn faces peer back at you from the screen, opening their mouths to sing the words that appear, karaoke-style, at the bottom of the picture.

This is so bad it's good... this particular picture turns potentially highly offensive after a couple of short minutes

A mixture of incomprehensible Italian flashes up with the only two English words being particularly well used by the likes of Ice-T, Ice Cube, Cute-E and so on.

This is all funny stuff as a whole – one song that might wipe the grin/cringe/smirk off the viewer's face is the final track where you are shown a very basic drawing of a singer at a karaoke competition who certainly looks female but after a couple of minutes, turns out explicitly not to be... I'll leave you to work it out (this program isn't for kids and could also understandably be highly offensive to some of our readers).

A prime example of Euro-trash, Techno Medra II is a relatively harmless and often amusing title simply due to the badness of the whole proceedings. Recommended only if you are a glutton for punishment.



Create and manipulate fractals in this easy to use and effective utility

Mand 2000

Programmed by: Cygnus Software

Available from: Scribble PD
Disk No V239

Call me cynical but I've never seen much point in fractals as part of computer entertainment. One pretty much looks the same as another and there is only so much you can do with them – take hard drugs and look at the screen for half an hour.

Mand 2000 stands out from the usual fractal crowd due to its ease of use and many features. Presented with a simple pre-generated image, the user is able to choose from many different facilities provided by the large selection of pull-down menus.

If you want to zoom in for more detail, simply double click on the area you want blown up. On the other hand, choose from one of the many zoom options which include "blob" and "awesome" to see what the computer can come up with.

The computer will redraw the fractal and fill in the details. It takes a little time but considering the logistics involved, it's understandable.

For those pop video directors among you who like the look of a good fractal or two pulsating on the screen, a Movie Record option has been kindly included.

You can view the sequence back and cycle through the colours or alternatively, change the palette for differing effects. While there may not be much point to the proceedings, this is surprisingly fun and satisfying to use. I am a cynic no more.

Calling all PD libraries...

...and individuals with anything remotely worth my while having a peek at. If you want something released as PD, or you're a library with stacks of hot new stuff that you haven't seen reviewed in these pages yet, why not drop me a line with a copy, full documentation and everything clearly labelled? I promise I'll at least look at your work.

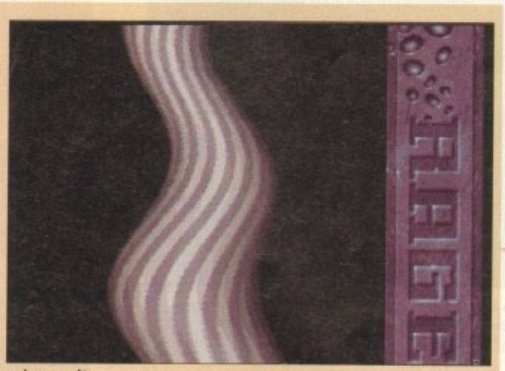
Adam Phillips, PD submissions,
Amiga Computing,
Europa House, Adlington Park,
Macclesfield SK10 4NP

Sonic Attack

Produced by: Dual Crew Shining

Available from: PD-Soft
Disk No 3645

Sonic 3 is upon us – well, if you've got a Mega Drive. Otherwise the blue-skinned character who can boast being recognised 99 times out of a 100 by the public at large has become unofficially involved with this music player, courtesy of Dual Crew



A disk crammed full of effects and routines that on the whole stand out from the usual

user is offered a wide selection of interesting stills, anims and 3D ray-tracing, all presented with professional style and flair.

There are precious few computer clichés such as spinning cubes and others – in fact, these have been replaced with spinning Amigas, keyboards and a BP sign, which is an improvement.

While a couple of sections are on the weak side (the fractal piccy as an example), some the others are positively begging for a law suit. The anim featuring Darth Vader as the head of BP isn't exactly good PR for the company that claims to help the world, but freedom of the PD is everything.

Overall, the producers of this demo seem to have looked around and sussed out what works and what doesn't... other less observant programmers, take note.

Shining. Booting up the first disk of several presents the viewer with some visually appealing images and relatively sound piece of music.

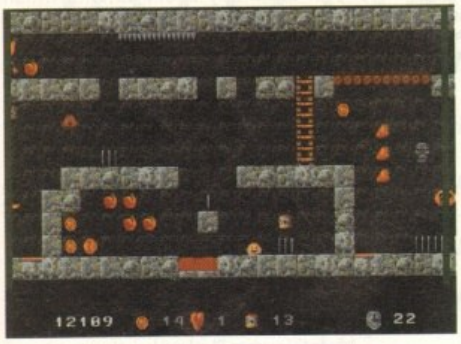
Sonic is apparent in most screens and is well rendered if a little inaccurate in places. The first feature for you to interact with is the mix-e-load program which allows you to mix your own beats, rhythms and bass from a large selection in memory.

This is actually pretty good fun and to be honest, is the best part of the package. Eventually, you'll find yourself confronted with a large list of music tracks to play and listen to.

These are all pretty average unfortunately but Sonic, the raver, dances his way around the screen to add to the frivolity.

Despite the lack of musical greatness, Sonic Attack does offer enough to while away the time with its good looks and slick programming.

That blue ball of spikes gets about everywhere from spaghetti and comics to computer games and rave music. This guy is hip – not



Guide your little blob all over the screen and collect the letters to spell EXIT

Rocky

Programmed by: Michael Pratt

Available from: Michael Pratt

Another epic story makes an appearance on the humble pages of this ever-so-modest computer magazine. No, this title isn't about boxing or how many sequels you can make before punters stop paying the cinema entrance fee – it's about something far more important, something that reflects the true heroism of the renaissance, post modern, new age... Blob?

That's right, a tiny planet many large and ridiculously huge light years away sits quite inconspicuously, called Blob. Aliens have turned up and wish to conquer this humble planet, with a modest population of estate agents and interior designers.

But, no, wait, yet a-bloody-gain there is another upstart who can save the day, who can clutch the reins of honour and courage – Rocky...

It's presented in sideways scrolling platformer with graphics akin to those found in The Fury of the Furries (reviewed in this mag a couple of months ago). The player must move Rocky round the screen collecting letters that make up the word EXIT. On doing so, a portal will open and you move on to the next level.

The adventure begin in the dungeons where the hero of all heroes is being kept. This prison must be escaped from to move into the alien's lair where the enemy computer must be switched off permanently and the end of game baddie destroyed.

There are 17 stages in all and the title is difficult from the word go with various traps and other cunning devices blocking your way. The controls aren't great – they feel a little unresponsive when it comes to jumping exactly the way you want to. On a couple of occasions, I dreaded some obstacles because it felt a little too luck driven.

Overall though, Rocky is a challenging game with good sound effects and reasonable graphics. There are enough novelties and skill testing to make it a worthy purchase (the price of a disk and two stamps). Recommended.

Dynamic Skies

Programmed by: Patrick Debaumarche

Available from: PD Soft
Disk No V1265

Dynamic Skies is a trip into the world of astronomy where us humans realise how mortal and rather small we really are compared to the rest of the known galaxy.

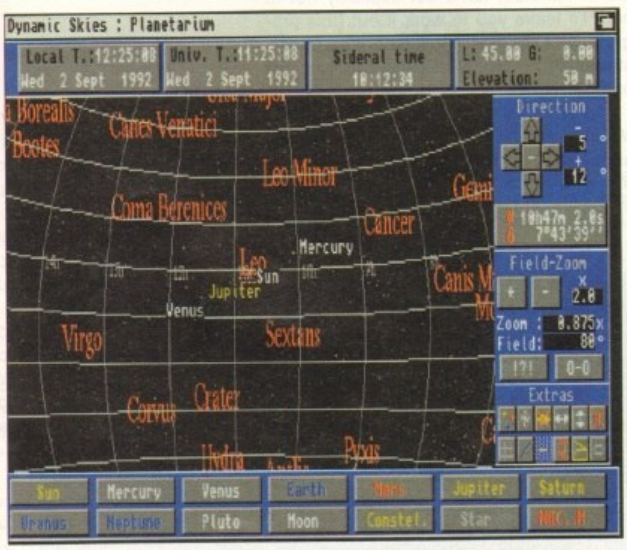
This program is a highly useful toolbox that gives details to the differing planets, nebulae and stars within a rather large range of this planet. Provided are a myriad of options and features to help you with your astral studies.

Suppose you have an urge in the middle of the night to take a closer look at that hulking sphere, Jupiter, from the comfort of your own window. Enter Dynamic Skies to show the rise/set times of Jupiter. With a click of a button, you'll be presented with a simulated sky at the designated time.

If you're still not happy, it's possible to animate the proceedings to see exactly what time is ideal to see the planet in all its full glory.

The package is easy to use if a little dull visually to the untrained eye. The update is rather slow when zooming in and out on a particular point even on the A1200, which can lead to much drumming of the fingers in impatience. The good points by far outweigh the weak elements though. This for beginner and expert alike.

It's a great program and deserves the attention of your eyes and your wallet.



The universe is the limit with Dynamic Skies, a comprehensive toolbox to aid you with your star watching

lay your hands on me

Graphic F/X, PO Box 69, Manchester M21 2BN
061-860 4292

PD Soft, 1 Bryant Avenue Southend-on-Sea SS1 2YD
0702 466933

Michael Pratt, 10 Rivers Road, Yeovil BA21 5RJ
Send a blank disk and SAE

Scribble PD, 2 Hillside Cottages, Burstall IP8 3DY 0473 652588

D Ithell, 36 Portia Avenue, Bebington, Wirral L63 5LF
Make cheques payable to Dithell. £3.99 for full game. Requires 1Mb.

FIVE STAR

QUALITY PD & SHAREWARE: WE STOCK OVER 4000+ DISKS

New catalogue v7 is now available. 300+ new listings + 101 high quality colour clip art, 100A6A only, 26 CG font, colour Font etc.
All previous customers please return catalogue disk for update.

All titles are compatible with all Amiga (Unless stated)

99p per disk

We also stock:

FRED-FISH	1-890
T-BAGS	1-57
L.S.D. docS	1-45
* SCOPES	1-220
ASSASSIN	1-141
GlamourS etc.	

* Please order a disk catalogue

UTILITIES

U001 +A-GENE program helps you trace your family tree
U002 +AMIGA SYSTEM TESTER C.L.I. base tester
U088 LABEL DESIGNER Good labels designer
U101 DATA BASE WORKSHOP (2 disks) Database compilation
U144 AMIGA FOX D.T.P. Desk Top Publishing for the Amiga
U145 XCOPY PROFESSIONAL Very easy & powerful disk copy
U146 C-MANUAL II (4 disks) Teach you how to program C
U160 600 BUSINESS LETTER ready type business letter
U169 PAINT AND ANIMATE Tool to paint and animate
U170 BIORHYTHMS v4
U195 AMIBASE-PRO II regarded the best & easy to use
U220 AMOS PAINT Easier to use than D-paint
U233 SPEECH TOY Make your Amiga speech more human
U242 IMPLODER 4.0 Make more programs fit on one disk
U250 +VIDEO TOOL (3) Lot of Video titler & programs
U284 COPY & CRACK TOOLS large collection disk copier
U287 P.C. PASCAL (2) Good Pascal language (not A1200)
U300 MESSY SID II read/write PC/MAC etc files
U331 POWER-MENUS Very easy to use menu program
U334 EMULATOR COLLECTION II A64, PC, Mac, PC task, QL etc emulator (300 1.3 only)
U335 FREE COPY V1.8 Copy some commercial games
U343 LITTLE OFFICE Our best seller yet. Collection of the best of Wordprocessor, database & spreadsheet
U352 DESK TOP VIDEO 1 & 2 Video tool (titler)
U360 R.P.G. & ADVENTURE GAMES creator (2 disks)
U377 NCOMM III Latest in Modem software & cruncher
U383 LYAPVNOU GENERATOR Create lovely space scenery
U384 MED v3.2 The best & latest music writer program
U390 DATA BASE COMPILATION Three very good databases
U401 PLUS ISSUE 1-14 (WB 2/3) Collection of useful utilities for the A500+, A600, A1200 only
U427 PRINTER-STUDIO Improve print out text or graphic
U431 VIDEO APPLICATION (2 disks) Video titler utilities
U480 HARD DISK CLICK (2 disks) Utilities and Menu system for hard disk user
U507 DCOPY III PROFESSIONAL The latest and regarded the best in disk copiers
U572 CLUMSY ICON + CREATOR TOOL (4 disks) Pack with Icons & Icon creator program
U581 MAGNETIC PAGES Excellent disk magazine creator
U582 GATOR GRAPHIC TUTOR Get the most out of your Dpaint (not A1200)
U599 PRINTER TOOL Make the most of your printer
U601 DISKSALV II + ABACKUP Regarded two of the best HD & floppy disk backup & salvage
U609 MICRO-BBC A/B EMULATOR Fully emulate the BBC computer + tutorial
U621 HOW TO CODE IN C (2 disks) Teach you how to Code in C (machine code)
U622 ACTION REPLAY (V1.5 or V4) Our best seller to date, copy, rip etc. (V4 is for A1200 other Amiga use V1.5)
U630 LOCKPICK 2 Remove copy protection & provide cheats for over 450 games. Recommended
U637 DISK REPAIR KIT 2 Repair, salvage & copy disk
U645 PC EMULATOR V2.11 (1200 only) 256 colour VGA
U650 COPY & CRACK TOOL 2 Latest copying tools
U651 C MANUAL 3 (12 disks) This is the big one, the latest in C manual. Ideal for learning C
U670 RS DEMO MAKER 2 (2 Meg) (not A500 1.3)
U677 MAGIC WB Improve your workbench environment
U681 TEXT ENGINES V4.1 the latest with 36,000 word spellchecker. Totally recommended
U682 ASTRO 22 V3 (new) Calculate star/sun position & star sign etc. Very accurate to 38 minutes
U683 DOS FILE PROTECTOR protect any text
U685 DISK MANAGER V3 catalogue file on your disk
U686 VIC-20 EMULATOR (new) games available soon
U689 FORCASTER V2 horse racing prediction game
U690 ASSASSIN COPIER collection of 9 copiers
U694 SUPER DUPER III very fast copier
U700 ANIMATION CONSTRUCTION KIT V1.2+
U702 V MORPH V2+ Create Terminator 2 effect
U703 POOL TOOLS 2L (new) horse racing prediction
U705 TRONI-CAD Create circuit boards, few examples include a sound sampler & modem etc.
U707 GAME TAMER V4 For even more games cheat
U712 EDWORD v5 PROFESSIONAL the best wordprocessor
U713 CDTVv2 PLAYER Lets you play CD while in WB
U718 MAGNUM 1.7 Latest in disk magazine creators
U721 FONT FARM V3 font + brilliant IFF font viewer
U722 EASYCAL+ sheet available yet with tons of features eg print & with max 92583 cell available
U724 PARNET SET UP WB (2 DISK)
U726 PARNET CABLE MAKER INSTRUCTION
U731 A-Z CHEAT 529 different games cheats

GAMES

G096 POPEYE LCD C64 classic conversion
G112 CUBULUS puzzle games based on a RUBIK CUBE
G222 MEGA 21 GAMES collection of 21 game packs
G235 DRAGON CAVE The best animated 3D puzzle game ever. Very similar to Dungeon & Dragon type games
G237 SCRABBLE high quality board games conversion. Up to 4 player or play with computer. (not A1200)
G256 INSIDER CLUB buy/sell Stock Exchange games. Share objective of the games is making money
G272 TANK BATTLE Brilliant 2 player game
G274 MR DUG Arcade conversion (few years back)
G329 MADONNA NUDE PUZZLES 15 puzzles (jigsaw game)
G330 TOP SECRET Brilliant platform games similar to OCEAN RAINBOW & PARASOL (not A1200)
G333 CYBER-NETIC regarded the best defender type games with all usual powerup. Recommended
G334 DONKEY KONG Rescue your girlfriend (not A1200)
G335 CRAZY SUE 2 cute platform games. Brilliant graphics
G356 WONDERLAND brilliant Mario Brother games clone
G362 DELUXE PACMAN Still the best Pacman ever released
G366 BINGO CALLER Amaze your gran with this fully speech bingo caller
G373 AIR ACE II Very playable ZENON 3 shoot games
G389 CASINO GAMES Lots of casino type games
G390 TETREN tetrix clone (90% mark in AMIGA FORMAT)
G393 BUBBLE GHOST Game boy conversion & very playable
G400 FIGHTING WARRIOR PD version of Street Fighter 2 amazing large graphic & it is £23.99 cheaper
G410 FATAL MISSION Nemesis clone with 1 or 2 player
G417 FIVE STAR 22 PUZZLE PACK Amazing collection of 22 puzzle type games, our top seller
G422 SERENE 3 similar to the commercial game ZENON
G435 ROULETTE the best Casino roulette simulation yet
G438 TRAILBLAZER conversion of the C64 classic game
G441 E TYPE 2 the best asteroid clone ever
G443 OLYMPIAD DISK (2 disk) Sport even with Lemmings as the star (very good)
G460 WIBBLE WORLD GIDDY Brilliant platform game with very large & cute graphics similar to the DIZZY series
G470 BALL LIGHTNING 1 or 2 player multi level platform
G490 MEGA BALL 2 new & highly playable breakout
G500 TRANSPLANT Voted the best game of 93, brilliant E-TYPE clone but much better, loads of power up & level
G502 DRAGON FIRE Excellent graphics (A500 only)
G519 LABYRINTH II Very good text only adventure.
G520 FATAL MISSION 2 (new set G410)
G521 FRUIT SALAD VG collect/ platform type games
G530 MAD FIGHTER (A1200 only) Superb street fighter 2 clone with very large well animated characters
G531 OPERATION FIRE STORM detailed graphic platform games with lots of action/shooting element. Brilliant
G532 AGA KLONDIKE (A1200 only) (3 disks) the best card games yet & each card has different glamour girls pic
G535 BLACK DAWN the best RGP games yet similar to HIRES GUN, very highly rated in most Amiga magazines
G540 ORK ATTACK Very bloody shooting games with large & detailed graphics
G545 KUNG FU CHARLIES Very cute & playable kung fu games with platform
G560 IMPERIAL WALKER Take control of an X wing fighter in this 3D game
G567 STAR BASE 13 (2 DISKS) Brilliant graphic Epic adventure like Monkey Island 2. Recommended
G568 MONACO Fast furious racing games
G569 SUPERIX Birds eye view Formula 1 racing games
G525 GRAND PRIX MANAGER 93 Very good management type games, use point & click system, good
G526 MENTAL IMAGE 1 contains 3 games
G527 MENTAL IMAGE 2 contains 3 games
G528 MICRO MARKET well presented stock market games
G529 SKID MARK extremely realistic & very playable 4 x 4 of road racing games
G534 CASTLE KUMQUAT Very good overhead (like Alien Breed) games puzzle with lot of inter connect level
G542 ROAD TO HELL Brilliant 1 or 2 player overhead view car racing games with engine upgrade option etc.
G544 SUPERTOM CAT New sertical shoot em up games
G546 RAID 4 more refined vertical shoot em up
G657 AMOS LOADSA MONEY another very good fruit machine simulation with exceptionally large reel
G659 SLAM BALL Manage your own futuristic team
G660 L.C.D. DREAM Straight conversion of 4 LCD games including Octopus, Parachute, Fire Attack, Oil Panic
G661 POP QUIZ Answer by click on A, B or C box

More games compilations see the ASSASSIN collection

EDUCATION

E001 KIDS PAINT Paint package designed for kids
E002 COLOUR KIT Colour book for kids
E003 TREASURE SEARCH Find the hidden treasure
E004 LEARN & PLAY 1 (not A1200) Maths & games
E005 LEARN & PLAY II for kids (order together)
E006 SPANISH TRANSLATOR (English to Spanish)
E008 MR MEN (A500 only) Story adventure
E009 ASTRONOMY tutorial on solar, star system
E010 SIMON & SPACE MATHS Maths & Simon games
E011 EDUCATION PACK 1 (5 disks) Lots of education programs range from Maths to games. We recommend you buy this collection
E019 DINOSAURS Explains what is a dinosaur
E021 STORY LAND II Interact puzzle game with 4 worlds to visit & solve (buy it....recommended)
E022 LANGUAGE TUTOR 4 languages
E023 TALKING COLOURING BOOK Very good Art/Paint package that talks
E024 EASY SPELL II Improve on their spelling
E025 SCRABBLE (not A1200) board game
E026 WORDS Can help you solve crosswords
E027 OSWALD large cartoon game kids will love
E31 IQ TEST + IQ GAMES Great to test your IQ
E33 +KEYCLICK II Good typing tutor
E35 CHESS HELPER chess tutor program
E38 AMIGA TUTORIAL explains about AMIGA
E39 COMPUTER CARE
E40 +GUIDE TO LOWER BACK PAIN Tutorial on the spine & how to avoid back pain
E42 +FRACTION & SILQUEST 2 good Maths programs
E44 STEAM ENGINE V2 Cut away animation of the Steam Engine
E45 PETROL ENGINE Cut away animation of the petrol engine
E46 GAS TURBINE ENGINE Cut away animation of the gas turbine engine
E54 DEMOLITION MISSION Simple game for kids, destroy buildings
E57 APPLE CATCHER Good graphics easy to play
E58 CROSS MAZE & CRYPTOKING
E59 VERB QUIZ Testing you or your child the word & it related
E61 KING JAMES BIBLE (4 disks) A complete bible on 4 disks fully menu driven
E70 +MATHS DRILLS Help kids improve maths etc
E071 +ERROR INFO Gives info on error guru message
E074 +AMIGA BEGINNER GUIDE
E075 +WORLD WAR 2 2nd World War with maps/pics
E076 SCIENCE (4 disks) Excellent mix of physics, chemistry & science programs. Recommended
E080 KIDPRIX New paint package specially for kids
E081 ASTRONOMY (4 disks) Plot sun location, find star, solar position etc
E090 KID D.T.P. Easy desktop publishing for kids
E092 SING ALONG RHYMES o Jack & Jill V GOOD
E094 HIGHWAY CODE TUTOR - QUESTION 7 ANSWER Teach you all the highway code signs
E096 READ & LEARN With the 3 little piggy story
E097 BACK TO SCHOOL 1, 2 & 3 (3 disks) Lots of games and educational programs for kids, recommended
E100 LITTLE TRAVELLER Info on world wide places
E101 WORLD GEOGRAPHY map of the world & Britain
E103 DISCOVERY OF THE ATOM (2 disks) tutorial
E104 DESK TOP GUIDE TO MUSIC (3 disks) Massive tutorial guide to making music, recommended
E107 TRUMPTY FIREWORK ALPHABET Very entertaining way to teach your child the alphabet, fully animated
E109 MR MEN OLYMPIC (2 disks) large Mr Men characters as the stars even for this Olympic. Recommended
E110 CULT TV DATABASE (2 disks) info on early TV films
E115 ELECTRONIC WORLDS (3 disks) new K. James bibles
E116 HOW THE EARTH BEGAN Info on the Big Bang

More education software in catalogue disk

GRAPEVINE No. 18 (3 disks)
DISK MAGAZINE

ALL our disks come with...

- ☐ professional print colour labels
- ☐ Only use top quality disks
- ☐ print order form with every order

ALL ORDERS SAME DAY DESPATCH

DEMOS

D011 MULTITASKING Demo of what is multitasking
D016 DEAD DANCE THRASH good dance music based demo
D050 PINK FLOYD THE WALL (6 disks) Massive music & demo lasts a long time (requires 2 disk drives)
D091 STAR WARS DEMO (2 disks and A500 only) Super starwar demo, lots of X wing anim
D107 ODDYSEE (5 disk & A500 only) Incredible 40 minute space epic journey movies. Recommended
D118 STAR TREK MEGA DEMO A (A500, A1200)
D120 1911 VOYAGE Brilliant demo lot of fill vector
D152 THE ELECTRIC TOUCH Multi scroll vector etc
D174 ACID MIX 5 brilliant aid track
D261 FONTIER Incredible Elite 2 demo animation
D251 MANGA WORLD Brilliant manga slideshow
D252 JAPANESE LANG Learn how to speak Japanese
D253 SUNTEAM GG ESWAT Eswat games
D254 AKIRA DEMO Akira Manga demo
D255 TROOP JUGERNORT 1 Story & games
D256 MANGA WORLD 2 More Manga slide show
D257 SUNTEAM QUIZ Quiz
D258 MAKE IT SO EASY Guess

A1200 ONLY

AGA001 EXTENSION DEMO Stunning demo with fast landscape anim and a rotating city, receive 90% in CU
AGA002 FRACTAL GENERATOR(NEW) Create stunning fractal in 256 colour
AGA003 WORKBENCH HACK Load of hack/toy/blanker etc
AGA006 NEW SUPERKILLER Know & kill 316 types of virus, well recommended
AGA007 MINDWARP one of the very first demo for the A1200
AGA011 SLEEPLESS NIGHT 3
AGA012 PLANET GROOVE release by Team Hoi
AGA013 MOTOR INVADER 2 (2 Disks) Very playable INVADER clone set. Recommended
AGA015 POINT OF SCALE Stunning vector demo came direct from France
AGA016 CHROMA good demo
AGA017 WORLD OF MANGA AGA (4 disks) Load of cute Manga chic slide show in stunning 256 colours
AGA021 MAGIC WORKBENCH Improve the look & add extra command to your Workbench (HD required)
AGA023 U-CHESS the best chess program so far, stunning graphic but requires 4 megabytes
AGA024 WORKBENCH 3 SCREEN Great back drop for A1200 (not for beginners)
AGA41 GIF BEAUTIES VOL 1-10 Available each disk auto boot & contain loads of stunning pics of raunchy women. Note fully compatible with any Amiga
AGA062 BODY SHOP VOL 1-7 Available (2 disks each) See description above (A1200 only) & order with volume number 1 to 7 (2 disks per volume)
AGA080 FIT CHICK VOL 1-5 Available (2 disks each) see description above (A1200 only)
AGA90 ASSASSIN FIX DISK 1 brilliant collection of degrade utilities for running non compatible software, we recommended you get this 2 disk now
AGA91 ASSASSIN FIX DISK 2 (new) latest contained more degrade utility (see above) Recommended
SEE GAMES, UTIL ETC. FOR MORE A1200 SOFTWARE

ANIMATION

A013 SPACE PROBE search for alien lifeform
A022 LUXO TEENAGERS Incredible ray trace animation
A072 LIFE A BITCH (18+) We all know life's a bitch
A179 THE LIVING WORLD SLIDESHOW
A187 PERIL OF THE DEEP (2 disks) Incredible slideshow of very big sea creatures
A193 NEMESIS COMIC Animate comic set in space
A215 MADONNA 3 (3 disks) Madonna fans, get this, a must!
A231 ALIENS The best Alien slideshow & demo
A293 MANGA COMIC Cute, chic and robot slide
A302 CAT SLIDESHOW For all cat lovers
A336 FAST CAR (Not A1200) 8 expensive car slide show

MUSIC

M001 BEASTY BOYS Good , We Want Some Pussy songs
M002 MICHAEL JACKSON Brilliant song of "BAD"
M005 +100 C64 TUNES 100 C64 Games Music
M072 +MADONNA songs from the hanky panky album
M076 POPEYE meet the Beast Boy, very good
M156 +CD PLAYER Simulate a CD player
M160 +I AM TOO SEXY (2 disks) full song
M194 JESUS ON E'S (2 disks) Super music disk
M262 A-Z TUNES (4 disks) hundreds of C64 games music

ZX SPECTRUM 48k

& 50+ original Specy Games Packs

This is the Very latest version (1.7) now run much faster & include sound. You can even program it like the original ZX SPECTRUM 48k - BRILLIANT. This pack also comes with large collection of original specy games like ELITE, Wheelie, Skooldaze, FinderKeeper etc.

ONLY...£4.99 ALL AMIGAS (please state)

Extra game disk available (4-8) 99p each

101 Games compilations pack only ~~£9.99~~

Super values 101 of great games pack include CRAZY SUE, INVADER II, TETRIZ, ELECTRIC TRAIN, MONOPOLY and 96 more great games etc.

Suitable for all ages & for all Amigas

NOW ONLY £10.99

ASSASSIN GAMES PACKS Vol 1-141

We stock the entire collection of Assassin games pack. For games list please order a catalogue disk. All Assassin disks are still only 99p per disk

NEW 101 GAMES

Brand new collection of 101 games pack. This games pack is ideal for all games fans with enough variation to keep even the most games fan playing for a long time (Come on large number of disks). Suitable for all ages.

SUITABLE FOR ALL AMIGAS
ONLY £14.99

EDUCATION & 21 GAMES

Our best seller. Best of education & 21 games
5 disks For all Amigas
ONLY £4.99

RS DEMO MAKER 1&2

5 disk set. The best demo maker yet (A500 1.3 only)
ONLY £4.95
Extra font & logo disk available

NEW PROFESSIONAL COLOUR CLIPART

WE NOW STOCK A LARGE COLLECTION VERY HIGH QUALITY CLIP ART IN FULL COLOUR

WORLD MAP

CCA01 AFGHANISTAN - BOTSWANA
CCA02 BRAZIL - CZECHOSLOVAKIA
CCA03 DENMARK - GRENADA
CCA04 GUADEL - ILLINOIS
CCA05 INDIA - LUXEMBOURG
CCA07 MACAO - MISSISSIPPI
CCA08 OHIO - S. DAKOTA
CCA09 SENEGAL - TUAM
CCA10 TEXAS - ZIMBABWE

GENERAL INTEREST

CCA11 REPTILES
CCA12 ACTORS (2)
CCA14 AIRCRAFTS (2)
CCA17 CARS
CCA18-26 BARDS (8)
CCA27 CATS
CCA28-35 DOG (8)
CCA36 EXPLORERS
CCA37 FISH (4)
CCA41-51 FLOWER (11)
CCA56 HORSE (2)
CCA57 FRUIT (2)
CCA55 FRONTIER
CCA58-62 INSECTS (4)
CCA62-63 INVENTORS (2)
CCA64-77 MAMMALS (9)
CCA73-74 INSTRUMENT (2)
CCA75-76 MILITARY (2)
CCA77-78 PRE HISTORY (2)
CCA79-83 PEOPLE (4)
CCA84-85 PRESIDENT (3)
CCA86-88 REPTILES (3)
CCA89 SHIPS
CCA90 SPORTMAN
CCA92-97 TREES (6)
CCA98-101 VEGETABLES

LIST OF SAMPLER SUB DISK CATALOGUE
all the colour clip art are in ham or 32 colour. When ordering please state required ham or 32 colour

SPECIAL PACK...FOR ALL AMIGA

MANGA ARIKA (6 disk) NEW...only £5.50
Brilliant MANGA games, anim, demo (6 disk)

D-PAINT FONTS Pack 1,2 or 3..only £4.95
150+ quality IFF font. 4 disks per pack

FS LOGO FONTS Pack 1,2 or 3 only £4.95
Ideal for logo headlines. 4 disks per pack

QUALITY D.T.P. CLIP ART (5 disk)..only £4.95
1000s of high quality images (5 disks)

PAGESTREAM FONTS (6 disks) ..only £5.95
Why pay more for quality fonts

C.G. FONTS for all major DTP (7disks) ..£6.95
Another 7 disks of quality C.G. fonts

48 HIGH QUALITY PAGESTREAM CLIPART
only 99p per disk. Load in to P.storems.

D.T.P. CLIP ART (ANY PAINT OR DTP) £4.95
hundreds & hundreds of quality clip art (5 disks)

ABOVE IS ONLY A SMALL LIST OF TITLES AVAILABLE - PLEASE ORDER A CATALOGUE DISK

PRICE & HOW TO ORDER

Prices.....99p per disk
Please add 70p for postage per order (UK)
Latest catalogue disk please add 70p
(Europe add 25p per disk for P&P)
(Worldwide add 50p per disk P&P)

MAKE P.O. or Cheque payable to: FIVE STAR PD
send to:

FIVE-STAR
(Dept AC9)
48 Nemesia
Amington
Tamworth
B77 4EL
Tel: 0827 68496
We open 7 days a week
& all orders same day despatch

FIVE STAR SOFTWARE
EASTER SPECIAL
FREE DISK
BUY 10+ PD DISK AND GET 1 DISK FREE
Please cut and return this Token for 1 free disk with 10 or more title orders. (Offer only applies with this token

18+ DEMOS

D001 +Showering Girl 5 (A)
D003 +Bodytalk (2) (A)
D006 +Viz Calendar 1990 (A)
D007 +NIGHTBREED (A)
D009 +Maria Whittaker (A)
D024 +Sabrina Special (A)
D025 +Ole Filkinger (A)
D026 +Madonna Early Days
D028 Kathy Lloyd+
D030 +Mega Male* (A)
D031 +Calendar Girls (A)
D032 +Mayfair (A)
D033 +Utopia (A)
D045 +Girls of Sport (A)
D049 +Page 3 Girl (A)
D070 +Son Son Girls (A)
D071 +Tina Small (A)

FONTS

F001 +PS Font (1-5)
F015 +Deluxe Paint Font 1
F016 +Deluxe Paint Font 2
F017 +Deluxe Paint Font 3
F018 +Deluxe Paint Font 4
F020 +Halc Font (3)
F023 +Computer Eye Font 1
F024 +Computer Eye Font 2
F025 +Fancy Font Volume 1
F040 +Digi Font Volume 1
F045 +Mega Font Volume 1
F050 +PS Logo Font (1-9)
F050 +C.G. Font (1-7)
F070 +Pagestream Font (1-6)

OUT NOW

ØSCAR

DANGEROUS STREETS

SURF NINJAS

WHEN THE GOING GETS TOUGH THE GANGS HEAD FOR THE **DANGEROUS STREETS** – THE NEW BREED OF FIGHTING GAME. WITH EIGHT OF THE BIGGEST AND BEST FIGHTERS FROM THE NEW YORK BRONX, 256 COLOURS WITH SUPER SMOOTH SCROLL, **DANGEROUS STREETS** IS THE GAME WHICH LEAVES OTHER BEAT EM UPS IN THE UNDERWORLD SHADOWS. DON'T MISS IT!

IT'S HERE AT LAST! THE GAME YOU'VE ALL BEEN WAITING FOR – **OSCAR** – THE ARCADE GAME OF THE YEAR. EXPLORE THE WORLD OF THE CINEMA AND PLAY THE STAR ROLE AS **OSCAR** CHANGES HIS DISGUISES TO TAKE PART IN EACH MOVIE HE VISITS. THE PLATFORMER OF ALL PLATFORMERS, REVIEWS SAY IT ALL – **READ THEM & BUY IT – YOU WONT BE DISAPPOINTED!**

FLAIR SOFTWARE

EVERYTHING WE DO – IS PLAYED BY YOU

MICROVALUE/FLAIR · MEADOWFIELD · PONTELAND · NEWCASTLE NE20 9SD · ENGLAND. TEL: 44-661-860260. FAX: 44-661-860270. SURF NINJAS© NEW LINE CINEMA CORP.

SYSTEM

Fantastic Voyage

Psygnosis's high-tech shoot-em-up, Microcosm, infects the CD32

SYSTEM PREVIEW

148 TFX

150 Benefactor

SYSTEM ANALYSIS

130 The Advertising Game
Product placing in games – saints or sinners?

134 Fantasy Football
Stockport County FC go for goal in our round-up

142 Better by Design
An in-depth look at Core Design

Under the system spotlight this month

124 K240

126 Innocent Until Caught

128 Legacy of Sorasil

138 Ryder Cup Golf

140 Maelstrom

On guard!

Acid Software, the team behind the highly popular Skidmarks, have a new release lined up to arrive this summer. Guardian is a fast action 3D shoot-'em-up which will be available on the CD32 and A1200.

It features some very smooth and fast 3D polygons and borrows heavily from the Super Nintendo classic, StarWing. Guardian will let the playe,r fly wherever they want and have the ability to see the action from any viewpoint.

A zooming camera will enable the game to be viewed from any angle and from any distance. This feature is almost certain to make it onto the CD32 version, but is unlikely to find its way onto the A1200 version.

Guardian has only been in production for six months and is nearing completion. Expect a lengthy preview in System very soon.

Guardian – a fast action 3D shoot-'em-up comming so on the A1200 and CD32

system online

What is going on in the ultra-fast-moving computer industry? Well, that's what these pages are for – to keep you up-to-date on what, where and why

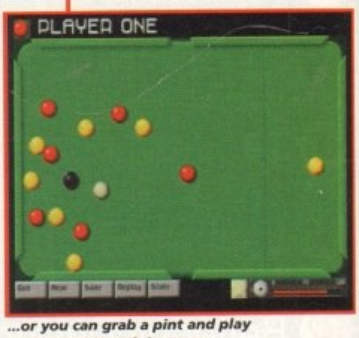
Team 17 rack 'em up

Not a company to rest on their laurels, Team 17 are back with a brand new budget game. Following their recent success with revamped classics like Alien Breed and Project X, as well as original products such as Qwak and F17 Challenge, Team 17 are about to release Arcade Pool.

It is, of course, a pool simulator for one or more players, which features excellent animation, smooth movement of the balls plus authentic digitised pool sounds and crowd applause effects. Options include the chance to play eight-ball, nine-ball and speed pool.

One outstanding feature of Arcade Pool is that it will detect and use the AGA chipset for an enhanced display during play. At a price of just £9.99, Arcade Pool offers tremendous value for money, especially when it has been in development a lot longer than your average full-priced game.

In Team 17's Arcade Pool, you can play US pool



...or you can grab a pint and play the UK version of the game

Ultimate Body Blows

Alien Breed: Special edition

Twice as nice at half the price

Team 17 have always given gamers a grand deal when it comes to the pricing of their games, and their forthcoming CD releases are no different. Two brilliant value-for-money game packs should be in the shops by the time you read this.

The first pack contains Alien Breed: Special Edition, the fantastic arcade style blast-'em-up, and Qwak, the superb one or two-player arcade platform romp. The second pack incorporates Project X, the award-winning classic shoot-'em-up, and F17 Challenge, the fast-paced budget racer.

Both packs are available at the superb price of only £24.99. CD32 owners who've been whinging about the lack of decent games for their machine can now stop worrying and start buying.

Also coming up from Team 17 is Body Blows, and it's going to hit the CD32 in some style. Entitled, Ultimate Body Blows, this enhanced version of the beat-'em-up classic will sport stunning new background graphics, improved gameplay, superb 16-track digital music and 23 characters in total. What looks like being the definitive Amiga beat-'em-up should be available now at £29.99.

Bargain Daze

This April, Daze Marketing release two new Silmarils games – Ishar 3 and Robinson's Requiem. The Ishar series has attracted an extraordinary following over the last two years. Neither Ishar or Transarctica has been released as budgets yet.

They are still full-priced games, in full-priced boxes, but Daze are offering them direct to System readers for just £4.99 each. Daze realise that there are people out there who still haven't seen the RPGs that Silmarils make, and reckon that once they've seen these two games, gamers will be coming back for more.

The offer is only available direct from Daze Marketing. The games are currently priced at £25 in the shops, so if you haven't got either of these Silmarils products then this is one opportunity you can't afford to miss out on.

To receive your games, simply send a cheque or postal order to Daze Marketing at 2 Canfield Place, London NW6 3BT.

Richard from Daze Marketing is the man who is offering you classic Amiga games at the low price of £4.99

System Technology

This section of the news will keep you up to date on forthcoming games technology from the major players in the computer industry

● The hype about Sega and their new 32-bit Saturn machine is continuing to rise. The Saturn was expected to be a CD-ROM-based system with the possibility of a cartridge port.

Not only have Sega decided to include this cartridge port, but a second, cartridge-only machine code-named Jupiter will also appear and will be released in Japan at the same time as the Saturn in November – although Jupiter has still not been officially announced.

● Atari's Jaguar has got off to a slow start in the UK. The company had hoped to ship in several thousand consoles back in December, but only managed to actually obtain a few hundred machines, thus leaving customers who placed advance orders disappointed.

The reason for this predicament was that Atari had received too much good publicity and found themselves surrounded by consumer demand three months before the actual launch. The official UK launch is now scheduled for June.

● Sony have now entered the video game market with the PS-X (Playstation X), a CD-only multimedia station powered by a 32-bit Risc chip, aided by a custom graphics chip called 3DGE (3D Graphic Engine).

The PS-X is reported as being more powerful than Panasonic's 3DO machine, capable of handling 360,000 polygons simultaneously with access to 4,000 hardware sprites. It's scheduled for release in Japan at Christmas.

Into the next Millennium

After the success of Diggers and Brutal Sports Football, Cambridge-based software house Millennium have released details of their forthcoming products for late 1994.

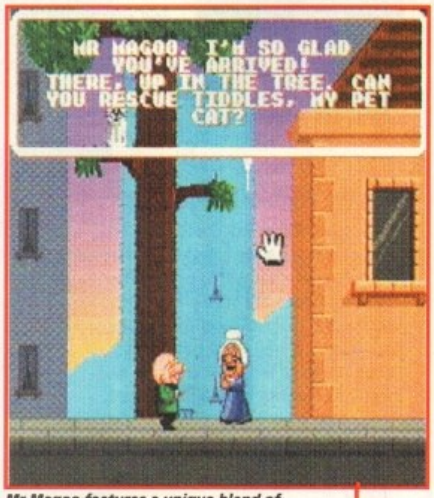
The first one to hit the shelves will be Mr Magoo. This licence was acquired from United Pictures of America and promises to be extremely faithful to the cartoons. The unique blend of cartoon animation and platform action is planned for release in September.

The sequel to the smash hit Brutal Sports Football is marked down for release in October. Entitled Brutal Soccer, this sports sim will feature sly punches, blatant kicks and, according to a Millennium spokesman, is "guaranteed to make Graham Taylor's vocabulary seem appropriate for a vicar's tea party".

Also scheduled for an October release is Neural World. Essentially a PC product, this will appear on the Amiga and will demonstrate that a computer can duplicate a basic brain. Your task is to teach creatures born underground how to survive.

Unlike previous products, the characters in the game will actually learn, and you can see their brains working to prove it. Their mission is to travel around the world visiting strange new regions, which are all based on styles drawn from art masterpieces.

Millennium's Pinkie and James Pond 3 are now nearing completion and should be available in June/July. All in all, Millennium look as though they'll have their hands full through the year right up to Christmas.



Mr Magoo features a unique blend of cartoon animation and platform action and is coming your way in September

System Selections

In this section of the news we list the pieces of software that have been doing the business for us over the last few months, and tell you why they should be in your games collection

Settlers

This wonderful "God" game from Blue Byte could well go down as a classic. While it contains elements that liken it to Populous, it's not a clone. Settlers stands up on its own two feet because it has great playability coupled with neat graphics and an especially user-friendly game system.

Cannon Fodder

I love Cannon Fodder and so should you. If you still haven't bought it then I must stand up and question your state of mind. Sensible Software seem to go on from strength to strength; Cannon Fodder is one of the most playable games ever and also one of the most fun. A fast moving shoot-'em-up of the highest order.

Skidmarks

Acid Software's racer has got gorgeous graphics, superb sound, is highly playable and unbelievably addictive. It's a very polished racer that totally destroys all of its competitors. I could go on for hours praising this game, but I really only need say two words – buy it.

Simon the Sorcerer

Adventure Soft's game is cram-packed with puzzles, funny quips and silly asides. While it's a title that you're not meant to take too seriously, it will give you plenty to think about if you're to complete it. Simon the Sorcerer is a very large, well thought-out graphical adventure that'll keep you happy and out of harm's way in the land of giants, fairies and dwarves.

Man Utd Premier League Champions

I've thrown away my copies of Sensible Soccer and Goal because Krisalis have created an ultimately more satisfying football game that will appeal to the true football fan.

The graphics are nicely presented and highly realistic. Couple this with its level of playability and addiction and you've got a hell of a game on your hands. Goal and Sensible Soccer fans will want to have this game's babies. Buy it and float to football heaven.

Labyrinth of Time

The bottom line is that Labyrinth is a superb addition to the adventure genre. It has amazing stylised graphics and a level of depth and playability seldom found in computer games these days.

It's great news for punters who've put faith in Commodore and the CD32 because this is a title which starts to truly show a little of the machine's capability.

The scores on the doors

Our brand new and revolutionary System score system explained

As part of the new look and feel of the software section we have taken a fresh look at the way we score our reviews. In our opinion, review scores have lost their context as percentages; some products have been receiving scores which were only a few percentage points short of perfection, when in truth the products were only marginally above average.

OK, so the scores might seem unnaturally low at first, but that's only because other scoring systems tend to be on the high side and perhaps not as comprehensive or honest as they could be.

In the long run you'll receive a more concise and reader-oriented review that's geared towards the consumer.

0-20 .....This is given to the lowest of the low

21-30.....An all-round poor game that may have a single saving grace

31-40 .....Just below the average, perhaps let down by a few indiscretions.

41-55.....Games of this score are roughly average with 50 being a perfectly average score.

56-66 .....This is an above average game and is worth buying. For this reason it would be awarded the BRONZE award.

67-77.....A game of high quality that we have no reservation in recommending. Anything of this ilk would be given the SILVER award.

78-89.....A brilliant title. Definitely worth buying and almost the definitive of its kind. This standard of game would receive the GOLD award.

90-100 The best in its genre. This benchmark title receives the PLATINUM title.

GENESIA

Genesia - a game of creation and power for 1 to 3 players.

The owner of a small land, you must expand and develop your population to become the most significant in the world of Genesia. In 5 worlds, each requiring unique strategies, you must manage everything, from food and water to employment and taxes.

Will you conquer the lands of your 2 opponents, or form an alliance with them in an attempt to recover the seven missing jewels?

Only with a strong economy, powerful army and new technology will you fulfil your ambitions.

90% - TILT

90% - JOYSTICK MEGASTAR

89% - GENERATION 4

AVAILABLE FOR: PC & 100% COMPATIBLES, AMIGA

MICROÏDS

MINDSCAPE

Mindscape International Ltd.,
Priority House, Charles Avenue,
Maltings Park, Burgess Hill,
West Sussex RH15 9PQ
Tel: 0444 246333
Fax: 0444 248996

© 1993 Microids. All Rights Reserved.

INTRODUCTION

Since 1984, when Pysgnosis first became a reality, they've provided the video game player with some benchmark products. A quick glance back into the annals of time and names like Shadow of the Beast and the Lemmings titles come into focus.

More recently they've thrilled us with titles like Hired Guns and the very accomplished Combat Air Patrol. In-between times the company has undergone radical change, with the Sony Corporation becoming heavily involved in Pysgnosis's major developments.

To this end the company have always managed to stay at the sharp end of technology. Indeed, while most were wondering which way a CD went into the machine, this Liverpool-based outfit were busy unlocking the secrets of the compact disc.

The first fruit of their labours is Microcosm, a strange montage of an arcade shoot-'em-up, and the movies Inner Space and Fantastic Voyage.

Microcosm

After three years of development, Psygnosis unveil their first title in the CD revolution. Simon Clays looks inwardly at the miniaturised world of Microcosm

STORYLINE

Set on a harsh, dark, future world called Bodor, Microcosm traces the underworld activities of two rival corporations.

Both Cybertech Inc and Axiom are at the centre of practically everything that occurs on the planet. They both have large mining concerns which dig further into the belly of the planet, systematically raping her of anything precious.

The majority of the planet is uninhabitable, with a high proportion of the population living in a very confined space. Poisonous gases belch forth from the bowels of the earth, a deadly by-product of cut-throat mining operations.

Life is cheap under the corporation regime with little concern for social conditions. In fact, the only thing that matters to the corporations is the title of Corp1.

Just recently, Cybertech's grip has tightened around the prestigious title, and little by little Axiom are falling by the wayside.

President of Axiom, Argon Stark, is desperate to re-address this disappointing situation, and investigates some rather aggressive methods of correcting matters.

It's only following a meeting with one of Stark's right-hand men that a more subtle means of ending the regime is formulated. Stark is introduced to a doctor, who has for some time been experimenting with miniaturisation. He claims that he can send a human being inside of another using his breakthrough in technology.

So the seed of an idea is set. Infiltrate Cybertech's headquarters and inject their president with a mind-controlling virus called greyM.

This would have a back-up system of designer viruses which would attack the vital organs if Cybertech try to meddle with GreyM.

The plan is successfully implemented, but during its inception Cybertech become suspicious, and realise that Axiom have sent an intruder into their President.

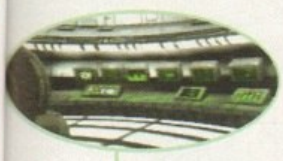
A decision has to be taken immediately. After a frantic meeting, Cybertech executives decide to inject a craft with which to fight the assassin viruses.

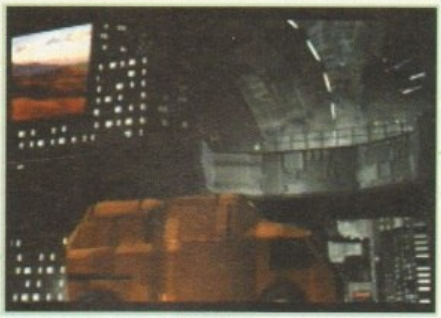
A panoramic view of the city

A view of your pod preparing for the next bout of action

A ray-traced robot lumbers through the confusion as Cybertech's HQ is infiltrated

Publisher: Psygnosis
Developer: In-house
CDs: 1
Price: £44.99
Genre: Shoot-'em-up
Hard Disk Install: N/A
Control System: Joypad
Supports: CD32
Recommended: N/A





This sequence contained a massive 241 models

Softimage allowed the programmers to achieve depth of field

Pysgnosis used blue screen technique to merge live action and computer graphics

SILICON CINEMA

Before the CD32 laser scanner can wink an optical eye at the gameplay, Microcosm launches itself into six minutes and 40 seconds of stunning introduction.

This *Bladerunner*-inspired sequence is probably the most sophisticated, cinematic piece of computer animation to emerge on a machine for the home.

The idea for the introduction was the brainchild of lead visualiser Jim Bowers. Following a brainstorming session, the nucleus of an idea was born. Loosely based on the "inside the body" films like *Inner Space* and *Fantastic Voyage*, the team started initial design work on the Amiga. Then transferred everything across to Silicon Graphics machines.

Using £10,000+ Indego systems, they set about creating the world of Botor. As the footage rolls, the first thing to greet the eye is a street scene.

This incredible section of animation, which features a futuristic truck rolling by and lasts under ten seconds, features 241 models, seven different light sources and over 85, 331 polygons.

Running Softimage on the Indego, a 3D model starts its life as a wireframe skeleton which can be manipulated and animated to ensure that routines are correct.

The next step is to fill the object and show that it has three dimensions. From here the image has textures and added detail like symbols or camouflage applied.

At this point we have a textured 3D image that has no shadow or light source, so these are applied, and from here the image can be pasted onto another image.

Much of the game involves live action sequences Mike Simpson of Pysgnosis explained the technique employed: "The live actors were filmed against a blue screen and then into modelled scenes. For example, in the lab scene in the intro only the actors are real – the whole lab is computer generated."

Using the same technology as used in *Lawnmower Man*, Microcosm had to be reworked from its original FM Towns format. As Mike told me: "The game had to be completely re-written, new and seriously clever code had to be developed to exploit the CD32 hardware."

Much of this technology also went into the reproduction of the game interiors, like the vein walls. Mike was on hand with the biology lesson:

"A tunnel was modelled from polygons and a vein texture wrapped onto the surface. Lamps were set behind the point of view so the scene would be lit in the foreground and fade away into the darkness."

After eight months of re-coding Microcosm for the CD32, work has started on follow up projects, Mike showed me the direction Psygnosis are going in:

"This is an ongoing process for us now. We've learned a lot since Microcosm. Scavenger 4 (which is initially on the FM Towns machine, but will undoubtedly be released on the CD32) is more interactive. The third game in the series will be even more interactive."

The future certainly looks much brighter for Pysgnosis's CD plans than the grim world they portray in Microcosm. Indeed, when I asked Mike about the future of games storage systems, he had this to say about their cartridge counterparts: "CDs are the way forward, and besides, you can't get 500Mb on a cart!"

GRAPHICS

Microcosm is probably the most impressive-looking piece of software ever to grace any Commodore machine. The first thing that greets you when you insert the disc is a 400-second introduction sequence. Rendered on Silicon Graphics machines and featuring a cinematic sequence of ray-traced images, Microcosm is a joy to watch.

The combination of CD sound and superbly constructed images really does put you in mind of a sci-fi movie. Shifting from moody street scenes to hi-tech robotic automatons and helicopters, it's totally absorbing.

The intro also combines real live action sequences which run alongside computer graphics, and add an extra dimension of realism to the piece.

Once into the game you'll find that the play area graphics are of the highest standard too. As you journey around the internal organs via vein systems, you'll be treated to a ray-traced version of Gray's Anatomy.

After the completion of each level you'll see more animated sequences, again rendered using Silicon Graphics and Amiga technology. Even the different craft that you guide through the body have been rendered and texture mapped to add that extra edge.

On a visual level, Microcosm is second to none and, its state-of-the-art look puts it in pole position in the graphical race.

88%

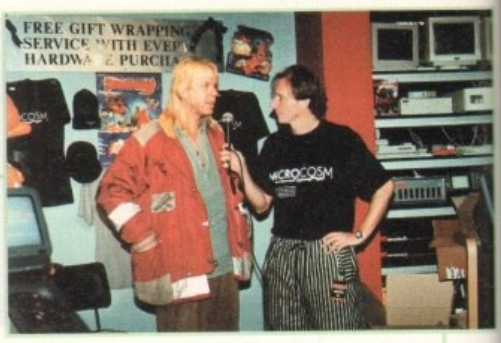
SOUND

When it comes to aural stimulation, Pysgnosis left nothing to chance, and, wanting to utilise the power of CD, enlisted the talent of ex-Yes keyboard player Rick Wakeman.

As with the graphics, the noise that emanates from the CD32 is indeed something to behold. Personally, I don't remember a time when I've heard such a quality soundtrack from a title.

A montage of ambient riffs and beefy dance beats, the Microcosm soundtrack is a pulsating and interesting departure from the norm.

80%



Ray-traced animation at its finest

ADDITIONAL INFO

A virus is an infectious particle consisting of nucleic acid (DNA or RNA) enclosed in a protein shell.

Viruses are acellular and able to function and reproduce only if they can invade a living cell to use the cell's system to replicate themselves.

The healthy human body responds by producing an antiviral protein, interferon, which prevents the infection spreading to adjacent cells.

Viruses are most commonly found in seas and lakes, with between five and ten million per millilitre at most sites tested, with up to 250 million per millilitre in a polluted lake. Among the more common viruses are canine distemper, chickenpox and yellow fever.

Discovered in 1971, viroids are even smaller than viruses, and consist of one single strand of nucleic acid. They cause such things as stunted growth in plants and some rare diseases in animals and humans.

The origin of the virus is still unclear, but it is generally believed that they are degenerate forms of life, derived from nucleic acid that has broken away from higher organisms.

Even the game play area is graphically beautiful

Before your imminent destruction, you'll witness the face of death

OPINION 66%

Pysgnosis's first full CD title is a very tricky product to measure or assess. This is because there are two separate entities that exist around each other throughout the entirety of play.

On the one hand you have the cinematic introduction sequence and the sections that roll around the actual play (like level completion or death of your craft), and on the other the gameplay itself.

The first thing to say is that as far as ray-traced sequences are concerned, then Microcosm definitely has it. That's all very well for the first couple of times you turn the CD on, or want to show off to friends.

But, once this has worn off and you start jumping into the play, what are you left with? The answer, again, isn't that cut and dried.

As you first start your epic journey around the body, you are indeed craving for more of those colourful artery walls, and it's even fun watching your own submersible split into a thousand pieces (causing the man you're trying to save massive internal bleeding).

However, humans being humans, we become accustomed to things very quickly. So, once we've witnessed some spectacular visuals, the euphoria doesn't last for long and we need stimulation from the playability.

Microcosm is hard, in fact it's very hard. At times it's too tough, and becomes infuriating when you keep getting stuck at the same point. But that's shoot-'em-ups for you.

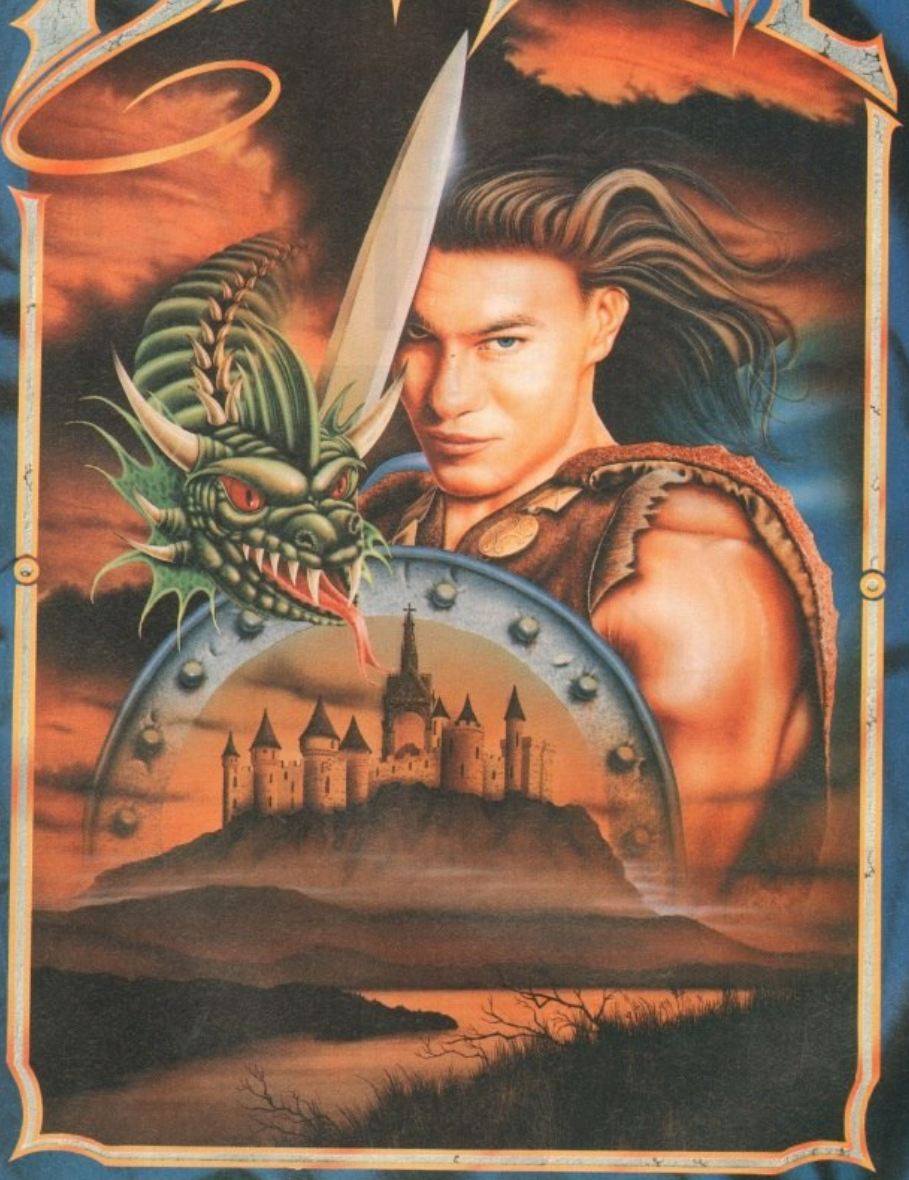
As a game, it plays adequately enough, with plenty of blasting action to keep you happy. If I had criticisms, they would be that Microcosm had more power-ups and weapons to choose, and that the internal walls that you guide your ship around had a collision detector.

In terms of product for the CD32, Microcosm is unmissable. It's not incredible, and it's not going to go down as a benchmark title. But in comparison to what else is available for Commodore's new console, it's streets ahead.

As a footnote, it's worth mentioning that as reviewers, we get to see a lot of product, and tend to get a little blasé about software. As an experiment we left the CD32 and Microcosm with some unwitting (normal) people, and they absolutely loved it.

THE NIGHTMARE IS ABOUT TO BEGIN ....

DARKMERE



In this 3D isometric adventure you play the role of Ebryn.
As heir to the throne, your dying father gives you the sword with which he slayed the mighty dragon.
Journey through three extensive levels of atmospheric gameplay in your quest to uncover the mysterious curse of the Darkmere and avenge the people of the village - this time for ever.

True Rôle-Playing Game

•

Over 600 Different Screens

•

Lasting Game Longevity And Playability

DARKMERE

Compatible with all Amiga formats (1 meg only)

CORE DESIGN LIMITED

Tradewinds House

69/71A Ashbourne Road

Derby DE22 3FS

Telephone (0332) 297797

Facsimile (0332) 381511

INTRODUCTION

Over the years we humans have slowly claimed planet Earth for ourselves. Pieces of land have been fought for and defended. The population is now increasing at an extremely dangerous rate and soon there won't be enough room left for the masses.

Where can the human race go from here? Up is one answer. Up into space where we will discover and colonise old and new planets. But what if someone is out there already? That answer is simple... we fight.

This whole scenario can be lived and played out in K240, Gremlin's sequel to their award winning and critically acclaimed "god" game, Utopia.

Ever wanted to experience the benefits of space exploration and asteroid mining? Well, grab your pick and shovel and join Jonathan Maddock as he ventures forth into the final frontier

K240

Before you start you must choose your alien opponent. In this case I've chosen the Rigellion Confederation and I probably won't last long!

The start of the actual adventure. With only one asteroid in your possession you don't exactly look like you'll conquer the universe

STORYLINE

The Terran Empire governs a vast area of space. Over 1,000 worlds have been inhabited and are home to countless billions of humans, as well as a minor population of alien races discovered during the great expansion in the 23rd Century.

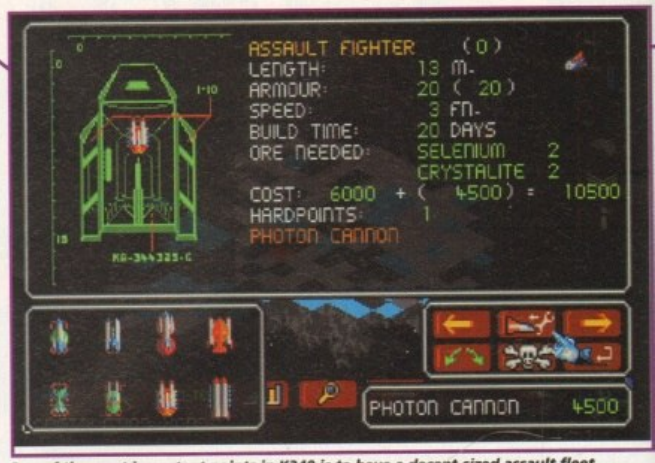
A large imperial company called Tetracorp started out in 2221 manufacturing scout ships and sensory equipment for the Imperial fleet. Its assets grew and it soon realised the potential of space exploration and asteroid mining.

It began developing new techniques for extracting and transporting rare ores mined in the depths of space, which were so successful that by the year 2280 it had grown to own and fill the entire industrial world of Barnard Five.

By the middle of the 24th Century it had cornered the market in mining franchises. It offered packages to anyone with the ambition to take over one of the asteroid fields, known as fragmented sectors, being discovered every year on the frontier of the Empire.

In the year 2380, Sector K240 was made available for colonisation by Tetracorp. K240 is one of the fragmented sectors and occupies a cube of space 50 light years across. As a Tetracorp franchise holder, you have claimed a section of K240 and are ready to begin your mining operations in the asteroid fields.

> How many goodly creatures are there here! How beauteous mankind is ! O brave new world, that has such people in't
>
> *The Tempest, William Shakespeare*



One of the most important points in K240 is to have a decent-sized assault fleet because otherwise you'll get hammered by the opposing alien forces

SOUND

K240 is a fairly sparse in the sonics department. There are several bleeps and bloops occurring every so often to keep your ears active. The best sounds are the smatterings of female sampled speech, which are triggered when an event occurs.

The only moment where the sound goes into overdrive is when you fight against your alien opponent, and World War III explodes across your speakers. But as with the graphics, K240 doesn't really require unbelievable sound effects due to its nature – although a few more effects might not have gone amiss.

56%

Publisher: Gremlin
Developer: In-house
Disks: 3
Price: £25.99
Genre: Strategy
Hard disk Install: Yes
Control System: Mouse/keyboard
Supports: A500/A600/A1200/A4000
Recommended: 68000 upwards

ADDITIONAL INFO

There are thousands of Asteroid, composed of rock and iron, orbiting the Sun. Most lie in a belt between the orbits of Mars and Jupiter, and are thought to be fragments left over from the formation of the solar system.

About 100,000 may exist, but their total mass is only a few hundredths of the mass of the Moon. Asteroids of note include Ceres, the largest known asteroid (9,400km in diameter) and Vesta, which is the brightest as seen from Earth.

The first asteroid was discovered by the Italian astronomer Guiseppe Piazzi at the Palermo Observatory, Sicily, on new year's day in 1801.

FLASHBACK

Trying to find a game to compare K240 to is quite hard. You could in effect call it a "god" game and compare it to Sim City, but that's not set in space. I suppose it would be stupid of me not to compare it to its predecessor, Utopia, but the gameplay does differ slightly.

Utopia was reviewed way back in November 1991 and received a stupendous score of 93 per cent and a bright and shiny Gamer Gold award. The game is pitched in-between Populous and Sim City, fighting an opponent while you attempt to develop a viable city with all its attendant problems of taxation, population control and crime.

K240 is different in the sense that you have to build up a colony and simply destroy your opponent to win the game.

If you can't see what buildings you've constructed then press a key and you'll be presented with an information grid

The second main screen you'll use is the asteroid field screen which displays all the asteroids when your scout ships discover them

GRAPHICS

The type of game that K240 is doesn't really demand state-of-the-art graphics and to be honest it works a lot better with basic sprites and backgrounds.

There are two main screens which you flick between when playing. The first is the main asteroid view screen. When you begin the game you are presented with a 3D representation of your asteroid, showing rocky terrain and the sole building in your colony.

As you start to build your colony up, scaffolding will appear and eventually, depending on the size of what you're building, will turn into structures. These structures are all presented in a basic colour scheme, but any futurist would be proud of the actual shape of the constructions.

Your colony looks rather pale and flat when compared to that of your alien opponents who tend to have much more extravagant constructions, but that's not really important when you're obsessed with completely destroying them in the first place.

The second view is the asteroid field screen which provides you with a map of all the asteroids. The map, at first, is predominately grey. Somewhere on the screen will be your asteroid and around it will be a black circle. This circle is "known" space and as you progress and explore, the grey map will gradually turn black.

60%

OPINION 77%

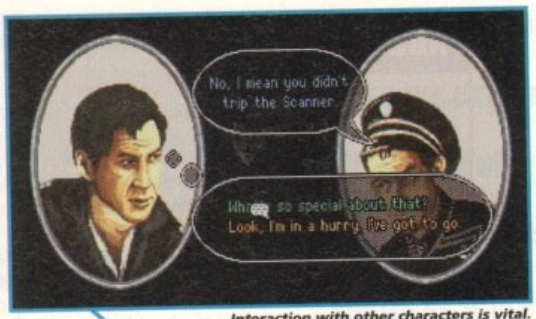
This is a damn fine space strategy game and a lot better than its predecessor, Utopia. The controls and buttons don't take long to learn and before you know it you're transported to a world of asteroids, mining, space battles and destruction.

OK, so it might not have spectacular graphics or sound, but it has it where it counts and that is in the gameplay and addiction departments. As first it all seems too easy, but after you've captured a couple of asteroids you'll need all your brainpower to cope with the forthcoming problems and events.

I'm finding it really hard to fault K240, but I suppose if you play enough it will eventually get a bit unvaried. This will take a long time to happen because the later aliens are incredibly tough and will demand a lot of experience to beat.

Gremlin's space strategy is a truly engrossing game that will keep you awake until the early hours and I heartily recommend it as this month's game to get your mitts on.

Psygnosis have joined the recent throng of adventure releases with this offering. Tina Hackett goes on the trail of Innocent until Caught's anti-hero, Jack T Ladd



Interaction with other characters is vital. Click on the reply you wish to use

Publisher: Psygnosis
Developer: Divide by Zero
Disks: 10
Price: £34.99
Genre: Adventure
Hard disk install: Yes
Control system: Mouse/keyboard
Supports: A500/A600/A1200
Recommended: 68000 upwards

Innocent Caught

INTRODUCTION

Adventure games are a popular genre and many titles are released constantly, all clamouring for a place in our collections. Psygnosis, however, are relatively new to the adventure game scene, their only other similar offering being the excellent Hired Guns, a 3D, horizontal parallax effort, set from a first-person perspective.

Developers DMA Design were the brawn behind Psygnosis's first attempt but for this release they've called upon the skills of Divide by Zero. A two-man development team, Divide By Zero have tried to create a game inspired by a more theatrical view point but with total player involvement.

Some of the items found can be used on each other, such as silver foil used on a coin will produce a fake token needed to travel the Subway

The control panel, notice how cluttered the inventory gets

STORYLINE

We find ourselves in the future, on the planet Tayte taking on the character of Jack T Ladd. His name actually gives you a good idea as to the main theme to the game.

As an average Jack the lad, his character traits are all those that you would find in your stereotypical lad, plus, in this case, tax evasion and all manner of misdemeanours against the state.

His indiscretions have been spotted by the IRDS (the Interstellar Revenue Decimation Service – a corrupt and powerful federation department) who are none too pleased with Mr Ladd's activities and give him 28 days to come up with the money to compensate for his wrong-doings.

Punishment for failing to do this results in some unpleasant form of torture, so Jack heads for the nearest bar planet to drown his sorrows, armed only with his tax demand. You, taking on the role of Jack, need to visit all manner of locations and interact with the various characters to raise the necessary cash.

FLASHBACK

As Innocent until Caught is your typical point 'n' click adventure it is inevitably going to be compared to releases like Monkey Island and its sequel. The game does to some extent try to emulate this title in that humour is incorporated at every available opportunity, but while Monkey Island was witty, Innocent is at times crude.

First impressions seem to suggest that you're embarking on the thinking man's Leisure Suit Larry, with its seedy locations and style of humour, but whereas Leisure Suit Larry was a title designed for the odd giggle, this one seems to try to hide its blatant double entendre-ridden street humour under the guise of a serious, atmospheric adventure.

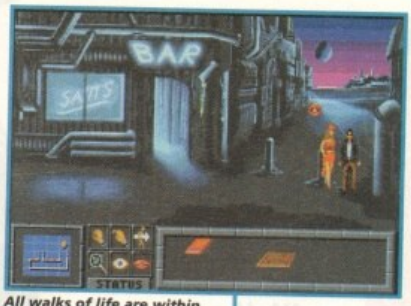
The jokes such as "Are you over 21? – What, years or centimetres?" wear a little thin after a while. The recent hit Simon the Sorcerer wins over Innocent both graphically and in humour, and Beneath the Steel Sky compares more favourably in both its atmosphere and its puzzles, which require a lot more thought than Innocent until Caught's rather linear approach.

SOUND

The soundtrack has obviously been composed to complement the gloomy, futuristic atmosphere and does to some extent do this. However, it is so lacking in appeal that reaching for the volume control is the only viable option.

It soon becomes disappointingly apparent that the game lacks any sound effects. The game would have benefited enormously from the inclusion of some form of effects rather than the dire accompanying tune.

30%



All walks of life are within this game. Ladies of the night may help or hinder you

ADDITIONAL INFO

A storyline based around tax evasion is certainly a novel one for a computer game but throughout history the notorious stories of tax-related problems and evasion are in abundance.

Tracing it right back to the tales of Robin Hood, one of the oldest cases of taxation problems occurred when King John charged his peasant subjects over the odds in tax.

Modern times are also ripe with cases of tax evasion, especially those of the rich and famous. More recently you may remember the entertainer Ken Dodd was in the headlines for allegedly defrauding the Inland Revenue. He was acquitted in July1989.

Others have not been so fortunate. Lester Piggott, the successful British Jockey, was jailed for three years in October 1987, after admitting a huge £3.1 million tax evasion swindle. Innocents' theme plays on our fears of the future, of misuse of governmental powers and on a topic that affects us all, rich or poor.

until

The scan icon allows you to look around the screen quickly

GRAPHICS

Innocent until Caught is a visually stunning game and a great deal of detail has gone into the backdrops. The graphics are in a style that rather than trying to create total realism opts for a more stylised, sketched look.

This works well in creating the futuristic feel of the game. The layout of the screen is clearly presented and so vital action is never missed. The auto-mapper screen becomes a very useful feature especially when you need to make a hasty exit.

However, the inventory screen has been badly designed in that you simply place all collected objects on the panel. After a while the panel becomes very cluttered and some of the objects become obscured so it is easy to miss some of your inventory.

The screen alsoupdates at a painfully slow rate at certain points in the game which spoils the flow and becomes frustrating.

65%

The status screen will give information on your progress

Try your charm on characters at first... they may respond better

OPINION 45%

While Innocent until Caught is in the main a blatantly mediocre adventure game, the many locations and film-based style of story add interest to this title. The sub-plots and episodic style of the game work well and provide some variety.

Its longevity is marred by the puzzle element which is a little too straightforward. For example, a character will tell you an object they want, you will find it and then be rewarded with an object another character wants.

The control system also leaves a lot to be desired. The mouse pointer needs to be placed very precisely before it will let you carry out any actions. It is also very slow to recognise what you wish to click on. The style of humour, although an unusual novelty at first, becomes rather tedious and verges on the immature.

The interaction with other characters is at times a little predictable and slow. Innocent, although not highly original in its approach or gameplay, does have its worthwhile moments and does evoke some feeling of excitement when you think you're on the verge of discovering another clue.

INTRODUCTION

Back in the late '80s, Hasbro's Hero Quest board game series bridged the gap between traditional die-rolling gaming and the more surreal world of the role player.

Hero Quest combined a complicated system of rules with the more contemporary board game philosophies. This fusion proved to be an instant success, and Gremlin Graphics of Sheffield seized the opportunity to produce a computer version.

An exact replica, the computer variation set you on a series of missions, but rather than a "dungeon master" negotiating your fate, the computer handled your 3D isometric decisions.

Data disks were added and awards were collected, but then everything went quiet on the fantasy front. Now, after two years in development, a whole new series of adventures with a totally revised play system are set for launch, the first being the Legacy of Sorasil.

After a series of successful board game conversions, Gremlin are back with the second in the Hero Quest series. Here Simon Clays enters the fantasy world of the Legacy of Sorasil

Legacy

Each character has 20 action points to exhaust if they wish to

Combat is implemented by clicking on the sword icon, and then on the character you wish to attack

Further action points are expended if you decide to carry out a search

GRAPHICS

Like its predecessor, Legacy of Sorasil is viewed from a 3D isometric perspective. This method of display is not only effective for employing the game's Dungeons and Dragons style rules, but also gives it that extra edge in appearance.

The animation is well handled using clearly defined character sprites which leaves the user in no doubt as to who is who. While they're a rather clichéd set of extras from a Tolkien book, the style suits the mood of the plot.

Each scenario places you in a different location, so you'll never find the landscapes repetitious or boring. For example, the first level places you in the gloom of a vampire's barrow, as opposed to further challenges which find you in forests, marshes and castles.

The legions of darkness are also in vast abundance and like the scrolling backdrops, vary from location to location. Likewise, all the varying denizens of evil have different combat animations.

Apart from physical combat animations, Legacy of Sorasil features a whole host of animations for use of magic. While limited in the early levels, as you progress to the higher stages the screen comes alive with various spells, both from your battle-weary characters and the foes you face.

64%

STORYLINE

The once great empire of Rhia lies dying under a vicious stranglehold of evil. The land is overrun with corruption and pestilence; harvests have failed, livestock lies diseased and dying, and even the most arcane of magics has failed to halt the spread of evil.

In a bid to stop the malignant curse which haunts the land, Alamon the Mystic, noble sage of Rhia, uses his skills and detects the source of power that is the root cause.

While unable to pinpoint its exact emanation, Alamon comes to the realisation that the evil can be eradicated, but it will take the power of several long lost artefacts which are rich in power.

Beyond the Shadow Mountains lies the land of Kolchoth. Once a place where sultans and demi-gods resided in palatial splendour, the land lies in decadent ruin, a sad reflection of its former magnificence.

This once royal country was home to two ancient talismans, each of which is capable of reversing some of the evil. Beyond Kolchoth, in the land of Garathor, lies the amulet of Tambor-Rin, a powerful healing tool and necessary for Alamons' plan.

To defeat the evil powers he also requires the might of the Oracle Stone. Legend has it that even deeper into the lands of darkness, in Iron-Wood Forest, the stone lies.

Alamon realises the task in hand is no easy one, and sets out to find warriors and mages capable of overcoming such hardship.

After searching the length and breadth of the country, Alamon finds eight brave folk. However, only four can be selected to embark on the perilous journey.

There are three stores where you can buy and sell booty

Publisher: Gremlin
Developer: In-house
Disks: 3
Price: £25.99
Genre: Adventure
Hard disk install: No
Control system: Mouse
Supports: A500/A600/A1200/A4000
Recommended: 68000 upwards

One of the sub-plots places you in a boggy marsh, trying to negotiate your way through its murky depths, fight and uncover a hidden relic

# of Sorasil

FLASHBACK

While there aren't too many titles that have employed this 3D isometric viewpoint, a few software houses have attempted this style, some more effectively than others.

Probably the definitive title in this category is Krisalis's Shadowlands (*Amiga Computing* April '92) which was given the old Gamer Gold award. Others include the fairly average Legend and the outstanding Cadaver from the Bitmap Brothers.

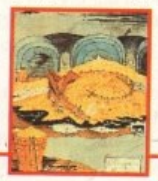
ADDITIONAL INFO

Many of the influences in titles of this nature come from the original ideas of J R Tolkien. John Ronald Tolkien was an English writer born in 1892.

He created the fictional world of Middle Earth which featured two major works, his 1937 classic, *The Hobbit*, and his epic trilogy *The Lord of the Rings* written from 1954 to 1955.

His lands were populated by strange peoples like hobbits, dwarves and goblins. Tolkien's works developed to cult status in the '60s, and due to his popularity he had many imitators.

At Oxford University he was professor of Anglo Saxon from 1924-45, and Merton Professor of English until 1959. Tolkien died in 1973, without really knowing the full extent he would have on the worlds of role-playing and video gaming.



SOUND

Legacy of Sorasil contains two very different ways in which the sound can be utilised. You can play to the accompaniment of a rustic tune or choose to use the FX option.

While the tune has a very dire dowdy edge to it, it does contain a great deal of atmosphere and mood that offsets the visual aspect of the game very nicely.

Conversely, you can opt to use the sound effects which give that extra dimension of reality to combat, as swords clash with a samples crunch and spells boom as they rain down on the recipient. Both aspects of the sonics within Legacy of Sorasil are very strong and work extremely well within their context.

While it's not a major criticism, it's my personal opinion that the sound would have been that bit more special if the programmers could have involved the two elements together.

However, this Utopian ideal may fall flat on its face as the standard of sound and sample independently is very high.

It's worth remembering that because of memory restrictions, had the two been integrated then the standard that has been reached may have dropped drastically.

67%

SYSTEM SILVER AWARD

OPINION 67%

This first venture in the Hero Quest Masters series is leaps and bounds ahead of its older brother, the original Hero Quest. The most obvious major improvement is the combat system.

In the original title when you're involved in a fight to the death the scene cut to a special combat screen. Now, when you're attacked or choose to fight a foe, the action continues in the environment you are exploring. This might seem trivial, but adds both continuity and atmosphere.

Really, there are that many changes from the original that the two are beyond comparison, and you can certainly tell that it's been in development for two years.

Although Legacy of Sorasil is split down into ten different adventures, each one relates to an overall plot. This works exceptionally well, as your characters develop and are awarded extra points to their various attributes.

Legacy is also very easy to pick up, using a point-and-click system in conjunction with the mouse. This is typical of every aspect of Sorasil – generally it's easy to use and even easier to find yourself absorbed within.

This combination of D&D style rules blended in with the visual aspects of combat and spell-casting will make Hero Quest Masters an instant success to RPG lovers.

Playing the system

analysis

Companies have been quick to exploit the unique advertising medium of the computer game. Simon Clays investigates the issues surrounding this newest method of selling your products

Advertising is everywhere, in every corner of all of our lives. In an average day your senses will be assaulted constantly as you make your way through what some would consider a minefield.

If you walk down any high street in practically any town in Britain today, you can expect to be bombarded from every direction. The most obvious advertisements will be visual stimulation from posters, screens and displays featuring attractive icons and slogans that stick.

In all probability this visual attraction will be supplemented by sounds formed into jingles or tunes that clamp themselves to your consciousness. The bottom line is that if people remember a particular tune or picture and associate it with a product, then this can be deemed a success.

This is the more obvious form of advertising on the street, but there are other ways of penetrating the senses. Supermarkets and fast food chains now use smells to stimulate a purchase. For example, a supermarket without an on-site bakery might deliberately waft an artificially-manufactured smell of fresh bread into the street to get people into the aisles.

However, this is nothing new. Ever since man has had goods to trade he has competed with the next trader to sell them; it is the nature of the beast to advertise in a free market.

Perhaps the biggest innovation for the advertising world was the mass production of the television set. While the cinema had been a large vehicle for advertisers, it still didn't grant access to the home.

Once established in the home, TV advertising grew and became a multi-million pound industry, with a product's success and failure not down to its quality, but down to the exposure and success of its advertising campaign.

This has now reached such an intense level that companies now even sponsor programmes that fit the image of their particular product. For example, the ale-drinking CAMRA member Inspector Morse is funded by Beamish, the stout manufacturer, whereas programmes such as the weather have sponsorship from companies like Powergen.

But as well as advertising's merits of making people aware of new innovations and products, there is also a darker side.

Such things as misleading product claims and brand stereotyping are two examples of practices that the advertising world's governing bodies, The Advertising Standards Authority (ASA) and the Committee of Advertising Practice (CAP) co-ordinate the fight against.

Together they instigate the British Code of Advertising Practice and have gained legislation to rid us of brainwashing techniques like flash advertising.

Banned because of its frighteningly effective method of persuading customers to buy products, this subliminal method places an engram-like image in the brain leaving the customer little or no alternative but to buy.

However, as technology has expanded through the home, so has the advertising potential. Perhaps the greatest growth expansion has been in the home computer market. Here in just short of a decade, prices have crashed as technology has gone through the ceiling.

Graphics, sound and memory chips are now so powerful that complicated images can be rendered and accurate sounds manufactured very quickly and economically.

One of the largest growth areas is in the computer game market, where both youth culture and adults alike sit in front of screens interacting and involved with on-screen sprites. It seems that this audience is a captive market and one which can be targeted extremely accurately using a relatively cheap form of advertising.

One of the first people to spot such potential was Danny Bobroff, whose company Microtime Media are now at the forefront of licence tie-ins and product placing in computer games.

The idea came some years back when Danny, who's a computer games enthusiast himself, was sat glued to a monitor screen.

"One night I was playing Kick Off. I was a Kick Off freak, and it came to me: There should be proper ads on such things as the side hoardings of the pitch, after that the idea just grew and grew.

"At the time I was working in advertising, and I'd spent a number of years working in the industry examining and developing new mediums to advertise in."

At first, although Danny was completely convinced of the concept, both software houses and manufacturers were dismissive.

"Although I never doubted that computer games would be a successful medium to advertise in, I never knew if I could survive long enough before the idea took off, but I knew someone would succeed."

DISCUSSIONS

The first success Microtime Media achieved was between United Biscuits and Millennium Interactive Software. After discussions with brand management for the Penguin biscuit and managing director of Millennium Michael Hayward, a deal was struck.

In the game, one of the objects of your Pond character is to walk over penguins which lie around the levels, and there are also loading animations which feature a selection of the aquatic biscuits.

At the time Millennium were a relatively small developer, and involvement with a strong brand added promotional weight and a larger audience to Millennium's James Pond Robocod character.

Keith Smith of Millennium explains how the tie-up came into being. "The initial idea was given to us by Danny Bobroff of Microtime Media. He'd lined up United Biscuits and told us that they were interested in reaching a certain age group via a games medium. James Pond just happened to be reaching exactly that same targeted group."

Being the first game ever to feature a product tie-in, James Pond 2 was an experiment that was under the microscope not only of the companies involved, but the whole of the fast-moving consumer goods and software industries alike.

Fortunately for both Millennium and United Biscuits, Pond was a tremendous success, having now reached the million sales mark over just about every format conceivable.

This all sounds extremely straightforward, but there were slight hitches and compromises during production on both sides, as Keith explains.

"Once the tie-up had been agreed, the graphics had to added. This meant that certain demands from the client were not possible, due to the complexity of the programming."

However, compromises were found and it materi-

advertising game

alised that as a promotional idea for the Penguin brand, United Biscuits were extremely happy.

The benefits to a company that spends vast quantities of money researching its consumers were that this method of below-the-line advertising allowed them to reach a finely targeted audience.

A measure of the success has been the number of subsequent developments which feature licence tie-ups. Certainly companies like Microtime Media and Danny Bobroff don't have the same problems convincing manufacturers of the massive potential of advertising within this framework.

Since the birth of the idea with the Robocod concept, there have been many follow up tie-ins, quite a few the brainchild of Mr Bobroff.

Most of the major players in the software industry have now had games which feature some form of advertising tie-up. Although Microtime Media haven't been responsible for all of the tie-ins, there's quite a few famous games which Danny has been responsible for the advertising aspect of.

United Biscuits featured again in Olympic Gold; Pepsico and Duckhams Oil featured in Formula 1 Grand Prix; and perhaps the most famous of all is the Chupa-Chups lollipop tie in with Gremlin's Zool. Although only the sweet level featured advertising for the lollipop company, it worked extremely well.

So successful was the Zool and Chupa-Chups relationship that plans are afoot for some heavyweight promotions. As Gremlin's Steve McKevitt told me:

"It worked so well that Chupa-Chups European promotion for 1994 will incorporate Zool and Zool world as a key element. As we speak retail and consumer promotions are now being planned."

Another one of Microtime's successes was the Ocean and Walkers Crisps tie up. Using the Quavers brand and the Colin Curly character, Ocean devised two complete puzzle games.

Both Pushover and its younger brother One Step Beyond put the crisp-loving Colin on a quest for his favourite snack, and as Danny states: "It was a whole new games engine that carefully wrapped puzzle play with advertising as Colin attempted to reach the Quaver zone."

Since this advertising revolution, software houses themselves have been quick to approach manufacturers with ideas for tie-ups.

One of the most successful direct tie-ups is Gremlin's Lotus trilogy. This slick, scrolling racing game featured two of Lotus's most prestigious cars. While Gremlin had a very fast, detailed set of codes, they felt the game needed more, as Steve McKevitt explained:

HIGH PERFORMANCE

"It was our idea to link the product with Lotus, we felt it would benefit from the involvement of a real high performance car manufacturer, and let's face it, if Lotus 2 had been called split-screen racer, people wouldn't have identified with it."

The tie in with Lotus enabled Gremlin to use imagery and artwork of real cars as well as being able to use useful information regarding performance.

As part of the deal, Lotus supplied promotions featuring the actual cars, and in return Gremlin had to follow a few stipulations.

As Steve told me: "The only parameters Lotus laid down was that they did not want the cars to be smashed up during play. So in this game if a car leaves the track it bounces back into play, rather than exploding."

Others who have previously majored their attentions on film and television advertising have been quick to spot the potential that computer games offer.

As Richard Robson, director of JAC Publicity and Marketing, points out: "The major FMCG companies now recognise this area as an important new medium, ➤

Tied up in knots?

Goal • Virgin
Features Adidas logo and ball

Bill's Tomato Game • Psygnosis
Features Heinz tomato ketchup and included a free sachet

Global Gladiators • Virgin
Included lots of gratuitous McDonalds style tie-ins

McDonaldland • Virgin
Speaks for itself!

Cool Spot • Virgin
Tie-in with 7-Up logo

Jaguar XJ220 • Core Design
Arcade Racer using Jaguar's state-of-the art auto

International Champ Golf • Ocean
Tie-in with Pringle golf sweaters

Soccer Kid • Krysalis
Tie-in with Golden Grahams breakfast cereal on Soccer Kid's football top

➤

that is, a great way of targeting a specific market."

Like a great many of us, you're probably not only questioning some of the ethics involved, but also, what's actually in it for the games player. But the software houses, and companies like Microtime Media and JAC, are quick to respond to both of the aforementioned notions.

They all believe very strongly that the concept of advertising in computer titles is a healthy idea and good for the industry.

As Keith Smith says: "I can't see why people should think of it as an immoral practice. Young people are being subjected to more advertising messages than ever before.

"This is not a bad thing, it's just progress. If games are to be singled out, then once they've been torn to shreds the spotlight will fall on the likes of Take That or Jurassic Park."

Martyn Brown of Team 17, the company responsible for Superfrog and its tie-up with Lucozade reiterated the point.

"I don't think it does anybody any harm as long as the advertising isn't detrimental to the game."

MULTI-NATIONALS

The industry is adamant that games players can only benefit from tie-ups and sponsorship from large multi-nationals. Involvement with such companies brings in much-needed development money which brings a higher standard of software to the player.

Danny Robroff explained some of the benefits to the games player: "Each campaign always features some benefit to the consumer. For example, in One Step Beyond a whole new engine was designed for the game, and it was still launched at the reduced price of £19.99, about ten pounds cheaper than most software.

"Penguin Biscuits featured such things as free Mega Drives and free copies of Pond, and also on-pack offers giving gamers £10 off software titles."

On the opposite side of the fence is the notion that games players are being exposed to a high level of advertising when they boot up their computers.

In television, people are exposed to short sharp explosions of hard-sell advertising; in computer games the sell is a lot softer. This is because the player very often sits at a monitor for over two hours and can therefore be subjected to much more subtle messages.

One of the key dangers are the false claims element of advertising. For example, in a game such as Superfrog, when our green friend walks over Lucozade bottles he has his energy restored to its full status. Although the product does make similar claims, this potentially could lead children into believing such a notion is completely true.

This, however, is the tip of the iceberg in comparison to the prospects the future brings. Technological breakthroughs such as compact disc – with the ability to run such things as full motion video – open up new dangers for use by the unscrupulous.

At the moment in the United Kingdom there is absolutely no legislation regarding computer games. This means that techniques such as flash/subliminal photography, which was banned as an advertising medium on television years ago, can still be legally used within the framework of such things as computer games.

Although no-one has yet to test the authorities, Richard Robson admits it's just a question of time: "It's highly possible that some unscrupulous operator will do it at some time."

Indeed, such is the concern of advertising's governing bodies, that they have set up Project 2000. The main aim of this commission is to investigate all areas of new technology media, but included in this bracket is computer software.

Following a meeting with advertising's governing bodies, software houses and companies such as Microtime Media, it was decided that while there is no immediate dissatisfaction, the industry needs a code of practice to cover the future.

As Fionnuala Tennyson of the Advertising Association said of the software industry: "Legislation at the moment is not good enough with the strong element of advertising that is developing."

In the immediate future it's highly likely that products such as word processors and art packages will pick up advertisers from companies manufacturing items like pens and paper.

Reaching further forward into the realms of virtual reality and neural networks, like those written about in books such as William Gibson's *Neuromancer*, then a totally new can of worms opens up.

VIRTUAL REALITY

The potential within this new electronic society for advertising is huge, and the day of VR worlds isn't as distant as you may imagine.

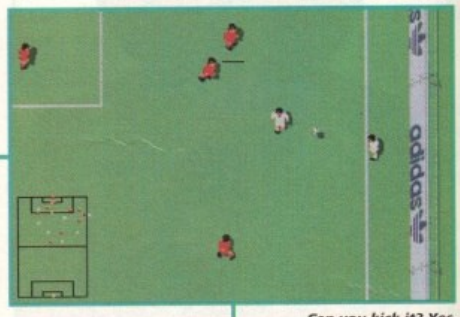
Soon, you'll don your headgear and journey into a new world within your front room. A world where electronic ad hoardings will beat out their neon messages, across the hum of a chip-controlled neural city.

This could be a world full of possibilities, but also is likely to be crammed to the brink with just as many messages as your everyday high street, with every sense interfaced and interfered with.

This doesn't mean we're necessarily heading for some Orwellian nightmare, because the advertising world, the software industry and companies like Microtime Media all want to see a code of practice introduced.

But as in so many other areas, technology is out-running the law, posing new moral questions which demand rapid sorting out and translation into workable legislation, before the damage has already been done.

Performace statistics are an advertiser's dream when selling a sports cart



Can you kick it? Yes you can. But not in goal you can't

It's an ad, ad, ad, ad, ad world

Zool • Gremlin

Features the popular lollypop Chupa Chups on the sweetie level. Promotions have free lollipops on mags, and such was the success of the tie-up that the whole of the Chupa Chups European promotion for 94 will feature Zool.

James Pond: Robocod • Millennium

The first game ever to carry advertising has now sold over a million copies across all formats. The deal featured a tie-up with United Biscuits and their Penguin product. During play you use your Pond character to rescue various penguins across the multitude of levels.

Lotus Trilogy • Gremlin

Gremlin needed a strong brand to launch their racing title, and so approached Lotus. Such was the success that a total of three games have raced into pole position in the public eye. Gremlin benefited from promotional support such as Lotus cars at trade shows and high speed test drives.

Formula 1 Grand Prix • MicroProse

This tie-up featured both the PepsiCo company and Duckhams Motor Oil. Though not featured directly in play, the game includes some screens that feature the products.

Superfrog • Team 17

The Superfrog tie-in was the brainchild of Team 17. They approached Smithkline Beecham who manufacture Lucozade, the idea being that the magic potion that Superfrog drinks is similar to Smithkline's best-selling product

Pushover/One Step Beyond • Ocean

These two games feature the Walkers Crisps advertising character Colin Curly. During play your objective is to guide Colin through a set of puzzles until he reaches the Quaver zone.

WMC PD

ALL DISKS GUARANTEED VIRUS FREE

24 HOUR TURNAROUND

TELEPHONE SUPPORT/ADVICE LINE

GAMES

BLACK DAWN +Y Alien Breed meets Dungeon Master

CRAZY SUE 2 +Y One of the best PD platformers around

CYBERNETIX +Y Excellent space shoot 'em up

EXTREME VIOLENCE V6.0 +Y Blast your opponent

GAMES GALORE Nos 1-10 +Y 1 disk each, tons of games

JIGSAW +Y Tricky teaser with a twist. EXCELLENT!

MOOSE DRIVE +Y Great car racing game, very slick

MOTOROLA INVADERS 2 Y (2) Space Invaders in your 'puter

MR MEN OLYMPICS +Y (2) Five fun sporting events

NEIGHBOURS +Y (2) Great adventure game

ORC ATTACK +Y Gory! Stone the orcs to save the castle

ROBOULDIX +Y Boulderdash clone, the best yet!

STARBASE 13 +Y (2) Best PD game ever. GET IT!

STAR TREK (ALL NEW) +Y (2) To boldly trek . . .

WIBBLE WORLD GIDDY +Y Excellent "Dizzy" clone

UTILITIES

ASSASSINS DISK CRUNCHERS +Y 60 crunchers

D-COPY V3.1 +Y Latest version. Very fast & simple to use

EASY BENCH +Y Workbench replacement, many extras

FREECOPY V1.8 +Y Make backups of commercial games

GAME CHEATS +Y Over 1000 cheats for commercial games

INSCRIPT +Y Video titler, works with or without Genlock

KICK 1 +Y Use A500 only games on all Amigas

LITTLE OFFICE +Y Integrated WP, database & spreadsheet

MAGNETIC PAGES V1.3 +Y Create your own disk magazine

MASTER VIRUS KILLER V2.1 +Y

MULTIFAX 6 +Y Send & receive faxes with your modem

NOTEBOOK +Y Puts text files into book form

PLASMA CLOUDS 256 +Y

PROTRACKER V3.1 +Y Excellent music editor and player

TEXT ENGINE V4.0 +Y Best PD wordprocessor

VIDEOBASE +Y Keep a record of all your videos

18+

BACK FROM THE BEACH +Y (2 Meg)

BEYOND FORCE +Y (2)

BORDELLO BEAUTIES 1 +Y

CELEBRITY SPECIAL 1 +Y

CLASSIC GIRLS 1 +Y

DIE FICKINGER +Y

FANTASY SLIDESHOW +Y

FIT CHIX 2 AGA +Y

GIRLS OF SPORT +Y

GON GON GIRLS +Y

MADONNA +Y

MADONNA - SEX +Y

MEGA MAID +Y

NAKED DREAMS +Y

PARADISE PICTURE SHOW +Y

* If ordering from this section, please sign to say you are over 18.

LICENCEWARE

BEAT ARTISTS Disk Mags Issues 2, 3 & 4

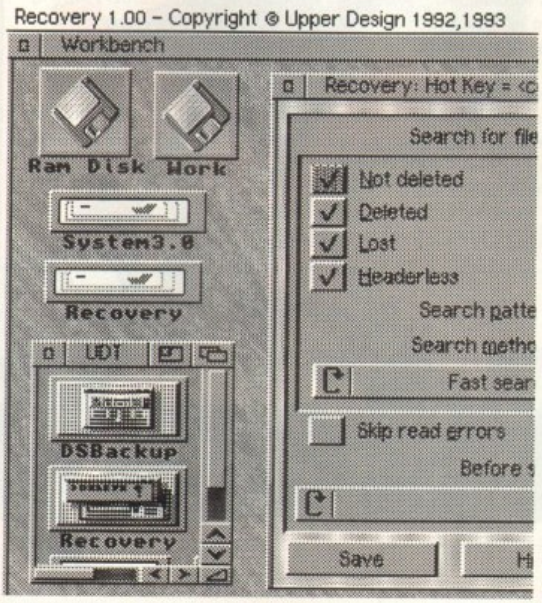
JIGSAW - Full version £5 Even more mind-bending!

DITHELL IN SPACE £3.99 The full 70 levels

These are only a small sample of our vast selection of PD titles.
We stock the full range of Fred Fish, Scope and Assassins.
We can supply any PD disk advertised in this magazine.

All titles compatible with all machines
Prices: 1-9 disks = £1.20 each. 10-19 disks = £1.00 each. 20+ disks = 90p each
Postage: UK = 50p per order. Europe = +10p/disk. World = +20p/disk.
Write or phone for free catalogue disk
Cheques/POs payable to:

WMC, 5 Tai Arthur, Penisarwaen, Gwynedd LL55 3PN
Tel/Fax: 0286 871815



Upper Disk Tools

Recovery (part of Upper Disk Tools) :

* Very fast retrieval of files from AmigaDOS disks including damaged or corrupted ones. Both from hard and floppy disks.
* Supports the reading of "File Systems" up to those new to AmigaDOS 3.1 (even under AmigaDOS 2.04)
* Requires AmigaDOS 2.04 or greater. Runs as a Device & Commodity

Upper Disk Tools is £19.95 (Access/VISA/Switch) & available from . .

Brian Fowler Computers Limited Tel: 0392 499 755
and Blittersoft Tel/Fax: 0908 220196

Or from the Distributor by UK cheque (p&p included for Europe, £1 extra elsewhere): Wheelbarrow Software Limited. Broad Oak, Two Tree Hill, Henley-on-Thames, Oxon, RG9 1RQ. (no callers please)

Introduction

The popularity of football has meant that it affects most people's lives in some way. Loathe it, or love it there's no way of escaping it – especially now, when it's brought to our homes via the technology of home computers.

There are an abundance of football games from the management/strategy types to the arcade/simulations. Both are becoming increasingly popular with your average gamesplayer which inevitably means hungry software house trying to cash in.

All manner of football games are continually released as the software companies compete for your cash, resulting in vastly differing standards from the good, to the bad, to the very ugly.

As a multitude of football simulations have been released, stretching back into the distant and murky past, it would be hard to give a full, comprehensive guide to every sim ever released, so we've picked out some of the best and most acclaimed of more recent times. Dini and Dini Productions and Sensible Software brought us the two most acclaimed titles that led to the battle of the giants – namely the heated competition between Sensible Soccer and Kick Off – in their quest to be the definitive football sim.

Other contenders in the fight were Krisalis's licensed releases, the Manchester United games, and it wasn't long before Ocean got in on the act too with their offering European Champions. All boasted playability, dozens of options, and fine graphics.

Not to be outdone by each other, sequel after sequel hit our shelves, along with many updated versions and data disks. It became more complicated for the average gamer to find what he wanted from a football game.

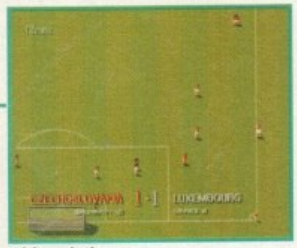
Life, far from becoming easier, is set to confuse even more with many of the promised forthcoming releases so we've separated the best from the rest from the past, present and future and rounded them up for your deliberation.

Part one of our feature deals with what is currently on offer and next month we'll be looking at forthcoming releases.

system analysis

Tina Hackett and Adam Phillips go football crazy, football mad to bring you the biggest and most comprehensive football feature around

Fantasy



Although the sprites are relatively small, they are easy to control

Sensible Soccer (Renegade)

Sensible Soccer came on the scene to challenge the Kick Off releases. The games world was amazed by the wide range of options and the authentic atmosphere.

Samples of crowd chants, gasps and boos along with sirens and drums create that all-important football atmosphere. The game is viewed from a slightly elevated position so there is no need for a radar or scanner. There are many options to choose from in Sensible Soccer, such as seasonal weather, match length and fully changeable teams. The sprites, although smaller than the norm, are still very detailed and easy to control. The game's appeal lies in its sheer playability and immediate controllability.

The game plays at a reasonable pace too, giving the player more time to plan shots, and thus giving a greater feeling of control.

Football

The pitch options in Kick Off 2 include normal, soggy, wet and artificial

Kick Off/Kick Off 2/Goal (Anco/Virgin)

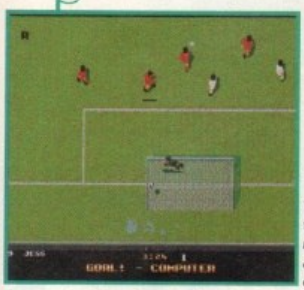
Dino Dini is the man behind the Kick Off series. The first offering set new standards in football gaming as we know it. The second went on only to better this and wowed many a games player with its sheer controllability.

Things went from good to very good for Dino Dini with a third Kick Off in the making, but with Dino parting company with Anco, publishers of the previous Kick Offs, the licence was taken up by Virgin and the game given the new moniker Goal.

Goal impressed with its improved graphics, enhanced sound effects and frantic gameplay. View of the pitch can be switched between a close up or conventional overhead view.

Match atmosphere is generated through 100k of sound effects such as supporters responding to the play, for example, cheering, if a player takes a shot on goal.

Although Goal is at first not as easy to control as Sensible Soccer, once mastered you can produce some very rewarding moves. Being able to "trap" the ball and then kick it in the required direction needs practice but results in spectacular accuracy.



The variation in the keeper's reaction speed and accuracy can be altered

The tactical element can be adjusted via the Tactics Editor screen

View your goals through the Video Replay mode

European Champions (Ocean)

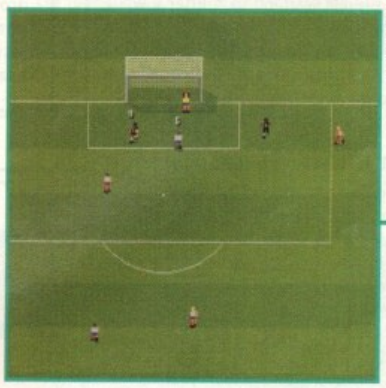
Recently released is this third Krisalis Manchester United licence, and from the looks of things it promises to surpass its predecessors. Changes made include switching the game view from side to above and adding a great strategy/management angle to it.

A tacti-grid allows you to decide where and how your squad should play. Decide on a formation and your players will stick to it.

The game is also made highly realistic in that players have their own defined skill levels. Although inspired by Sensible Soccer, MUPLC has more clearly defined sprites and the whole game is well presented.

Details such as the replay function and being able to make informed substitution decisions because the computer will tell you what state your player is in, makes the game stand out from its counterpart.

The game looks set to be a huge hit and the interactive element coupled with the great playability will be a more than worrying challenger for games already on the shelves and those to be released.



The sprite are noticeably smaller than its predecessor

Relive your goals through the replay feature

Man Utd Premier League Champions (Krisalis)

Recently released is this third Krisalis Manchester United licence, and from the looks of things it promises to surpass its predecessors. Changes made include changing the game view from side to above and adding a great strategy/management angle to it.

A tacti-grid allows you to decide where and how your squad should play. Decide on a formation and your players will stick to it.

The game is also highly realistic in that players have their own defined skill levels. Although inspired by Sensible Soccer, MUPLC has more clearly defined sprites and the whole thing is well presented.

Details, such as the replay function and being able to make informed substitution decisions because the computer will tell you what state your player is in, makes the game stand out from its counterpart.

This looks set to be a huge hit and the interactive element coupled with the great playability will be a more than worrying challenger for games already on the shelves and those to be released.

Stockport County fantasy football

Who better to give their football insights on some of the better footy titles to grace our screens than the lads who play the game for a living?

Stockport County Football Club is a team that can boast several trips to Wembley and the tallest player in the football league – a healthy six foot seven inches.

With this in mind, the *Amiga Computing* team made their way with head held high (about six foot) to the grounds for the ensuing tournament.

Before plunging into this clash of the titans and to give the players a warm up, we presented them with four titles from the current crop of football games to flex the hand muscles with.

Goal!

The latest offering from Dino Dini only managed to stir an "it's all right" from Lee Todd, Stocky's right back. The players warmed to it after a while though, as Darren Ryan, right/left wing, claimed that he preferred Goal to everyone's favourite Sensible Soccer, and Lee came to the conclusion that the graphics were the best of the bunch.

Manchester United Europe

After the hissing and catcalls had subsided and the Amiga had been safely saved from being thrown out of the window, Neil Edwards, goalkeeper, and Darren settled down for a play on this Man Utd-sponsored game from Krisalis.

Even after several minutes of play, the consensus of opinion was that the controls weren't up to much and that the gameplay was so slow that "even Linford Christie couldn't play this one".

The rather tame sound effects were subject to a barrage of laughter as the ball bounced off the goal post with a rather limp ping. All in all, not a game that was met with thumbs up.

Manchester United Pro League Champion

After fetching the Amiga from outside of the club room's broken window and saving the disks from injury time, Lee Todd and Andy Preece, striker, had a quick game on Krisalis' Sensi-like title.

Comments made suggested that everything moves so fast that it's difficult to see what is actually going on, and struggling to control what was going on was even more of a problem.

Sensible Soccer

The majority of players found this classic their favourite as a fun, action packed and easy-to-get-into footy experience and without further ado, the title was selected to be used in the final tournament..

The Tournament

After this brief reviewing session, the Tournament began in earnest. Lee Todd and Darren Ryan stepped forward to take on the *AC* team in a vicious game of Sensible Soccer. Match tension was high – with fingers flexed and focus at maximum, Stockport prepared themselves for the first semi-final.

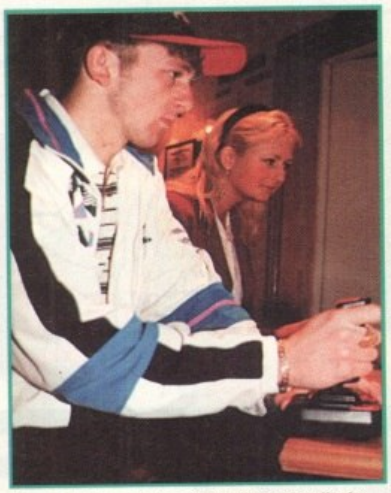
The *AC* team in the meantime put on a brave face while fumbling for Valium and Beta Blockers in a vain attempt to hold themselves together for the first match...

Lee Todd, SCFC vs Tina "The" Hackett, *AC* Team

Lee made his intentions clear from the beginning – after a close call at Hackett's goal right from the off, he had the control of the ball for the majority of the game.

In the meantime, Hackett resorted to fouling at every given opportunity. Despite this, Todd had the ball in the back of the net by the end of the first half with a sharp crossover from the left that left Hackett blushing in shame.

The second half held few surprises – although *AC* did manage to take a few pot shots at the goal, Stockport drove the ball in to the net once again, bearing an unarguable result... 2 – 0. Todd was into the final.



Tina, AC writer and Lee, footballer extroadinaire, meet head-to-head in the semi-finals

Lee Todd gives his approval of Sensible Soccer

League tables

To make life easier, finer details of the games and the different options available are contained within our league table.

	SENSIBLE SOCCER
Publisher:	Renegade
Developer:	Sensible Software
Match:	cup/league/euro/friendly league/cup
Skill settings:	N/A
Save game:	highlights/data
Players:	1-2 player
Sprites:	small but clear
Sound effects:	crowd chants/boos
Weather:	Seasonal on/off
Pitch:	icy/mud/soft/normdry/hard/random/
Duration:	3/5/7/10/mins
Goalie:	computer
Tactics:	formations/subs
Statistics:	no
Referee:	preset
Pitch view:	overhead
Extra Moves:	lift+bend
Radar:	no
Auto replay:	goals on/off
Other features:	custom teams+data
Score:	92%

Darren Rhine is blown away by the professional quality of Amiga Computing

Darren Ryan, SCFC
vs
Adam Phillips, *AC* Team

A game of unrealised promise. A barrage of attacks at the goal from *AC*'s finest were constantly unsuccessful. Ryan's attempts were ferocious but by half time, there were no goals, just frustration.

Into the second half and the attack continued with the added element of Ryan talking throughout trying to throw his opponent off guard. "What a save!", "ahh, you're wasting time!" and assorted expletives.

This all proved too much for the young man from the Europress offices as the ball squeezed past his goalie in the last second of play. 1 – 0... Stockport were into the final, the *AC* team merely commentating.

GOAL!

Lee Todd, SCFC
vs
Darren Ryan, SCFC

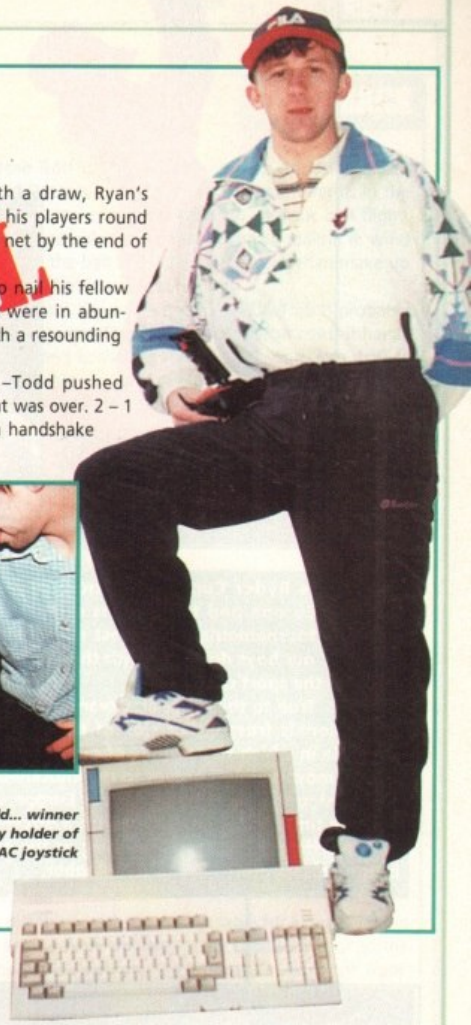
After proclaiming that he'd be happy with a draw, Ryan's dream was shattered by Todd as he carved his players round the field, putting the ball in the back of the net by the end of the first half.

Ryan fought back in desperate attempt to nail his fellow player into the wall. Yellow and red cards were in abundance and Ryan has his moment of glory with a resounding goal scored from a corner.

But all this hard work was to no avail –Todd pushed another one into the net and the tournament was over. 2 – 1 to Lee Todd, the winner... it was time for a handshake and the photocall.

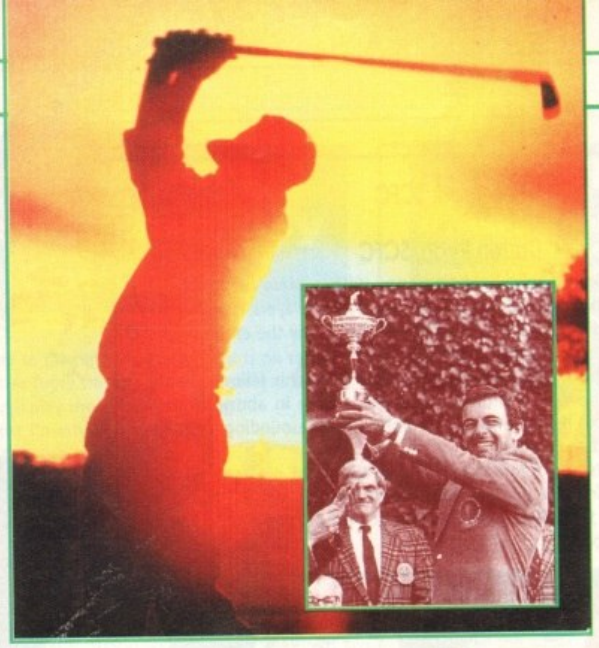
FINAL

The winner and loser shake hands after a match well played



Lee Todd... winner and lucky holder of the AC joystick

EUROPEAN CHAMPIONS	GOAL	MAN UTD
Ocean	Virgin	Krisalis
Audiogenic	Dini and Dini	In-house
practice/euro	FA+Coca Cola Cup practice/league	all English league/FA Cup/Coca Cola Cup
individual/team/1-10 level	Speed, novice to ace	according to division
replays/data	replays/auto/data	data/
1-2 player	1-2 player	up to 4
large,detailed	animated	small,well defined
music/sfx	crowd react to events	crowd
wind, none to strong	wind,on/off	Seasonal
norm/hard/mud/astro/wet	norm/wet/mudwembley/random	usual+fog/frost
4/8/16/20/40/90	1/3/5/10/20	preset
computer	computer,med/easy/hard	computer
player attributes/editor	formations/transfers	huge strategy element/tacti-grid
running commentary	match report	no
lenient/average/strict	different personalities	preset
side/overhead	overhead-vertical + horizontal with zoom	overhead
autoshoot/ping pass/pointpass	scissor kick/trap ball/aftertouch	no
yes	yes,various size/position	no
on/off video replay	replays, fast forward/rewind	rewind/slow motion/opposite viewpoint
auto corner/throw in	arcade challenge	state of player info
90%	93%	92%



If you can bear to re-live Bernhard Langer's infamous fluffed putt, or think you can do better, Ocean's latest sports game is a good way to raise that blood pressure, as Stevie Kennedy discovered

Ryder Cup

INTRODUCTION

The Ryder Cup competition, played between Europe and the USA, is one of the few golf tournaments to interest many non-golfers, as our boys do battle with the Yanks for one of the most prestigious trophies the sport can offer.

True to the original, Ocean's game puts the player in charge of the 12 best professionals from either side of the Atlantic, playing over a gruelling three-day schedule in which five rounds of golf and the elusive 14.5 points winning total will stretch most people's nerves to the knuckle-biting stage.

Choosing to play either as USA or Europe, and in the shoes of up to four golfers at any one time, the player's skill with a driver and a spot of deft team selection could be the difference between finishing as the grinning Tony Jacklin, or the crushed and bitterly disappointed Bernard Gallagher.

Team play gives the game a great deal more depth and playability

The initial yardage reading is the only distance gauge available

GRAPHICS

Ocean have made full use of the A1200's 256-colour mode to make Ryder Cup Golf easily the best looking golf game on the Amiga. The game's four courses (which include the Belfry and the Village, Ohio) are beautifully drawn, from the trees to the shaded fairways.

By stacking the various graphics in layers, a certain amount of parallax effect is achieved, and the most distant objects are faded into the sky to give the appearance of depth. Static screens are every bit as good, particularly those which are accessed during play, and the attention to detail is gratifyingly high.

There are a few bad points, though, and a few extra touches here and there wouldn't have been out of place. As in most golf games, for instance, the golfer sprite, his swing action, and the club he is apparently holding remain unchanged whether he's belting out a 300-yard drive or attempting a tricky wedge shot, and the shading could benefit from more attention.

Polygons aren't used on fairways or greens, so the shading is the player's only way of guessing the lie of the land, and as this is often a little too subtle, it can be very difficult to judge which way the ball will bounce or roll. A grid can be superimposed on the greens, but iron shots are unaided by any such technique.

Overall, though, there can be few gripes over graphics, which are definitely the game's greatest strength.

80%

SOUND

Reasonable but sparse more or less sums it up as far as sound goes. The sampled cheers from the crowd when a hole is won are suitably rewarding, but they begin very clumsily without any fade-in and end almost as abruptly.

The odd tweeting bird, splashes when your ball lands in water, and a great sample of the ball landing in the cup when a putt goes down are the only spot effects except for the awful white noise used to indicate that you've hit a tree.

55%

Publisher: Ocean Software
Developers: R.I.S.C.
Disks: 3
Price: £25.99
Genre: Sports
HD Install: A1200 version only
Control system: Mouse
Supports: A1200, A4000; requires KickStart rev 40.3
Recommended: 68020, 2Mb RAM

Golf

ADDITIONAL INFO

The Ryder Cup was first officially played in 1927 at Worcester, Massachusetts, when Ted Ray's British team went down 9.5 to 2.5 points at the hands of the great Walter Hagen. Twelve months earlier, the unofficial precursor to the cup competition had seen the British destroy the Americans at Wentworth.

Abe Mitchell, the captain of that first unofficial team, was shortly to be immortalised as the figure you can see on the top of the trophy, donated by British businessman Samuel Ryder, which the teams have competed for ever since.

Great Britain's first official Ryder Cup win came two years later at the Moortown course, and every two years since then, war permitting, the cup has provided one of golf's most enthralling competitions.

Despite a British win in 1957 and a draw in 1969, the Americans dominated the Ryder Cup until 1979, when the beleaguered British enlisted the help of the continent to form a European team for the first time.

Matches became closer and closer until, in 1985, Tony Jacklin's team finally won the cup back when Sam Torrance sunk his memorable putt and prompted a flood of joyful tears from all present.

The recent resurgence of European golfing strength, thanks to players such as Ian Woosnam, Nick Faldo, Seve Ballesteros and Bernhard Langer, has made the Ryder Cup one of the most popular TV sporting events of all, and millions of viewers tune in every two years to watch what has become a string of incredibly close-fought contests.

FLASHBACK

Microprose Golf is the touchstone for simulation excellence, and Ocean's attempt comes nowhere near it. In the Microprose game, contoured fairways, realistic ball flight, challenging gameplay and an attention to realism in wind effects, lie of the ball and other areas more than make up for ordinary graphics and poor sound.

Of the graphically-inclined games, PGA Tour is probably the only real contender, and Ryder Cup Golf beats it hands down. We won't bother to include Links, as it is so slow as to be unplayable, so Ocean have managed to place themselves somewhere in the middle.

SIMULATION

Ryder Cup's most damaging weakness has to be the poor quality of the simulation itself. The flight of the ball is nothing like a real golf ball, and the avid real world golfer will be disappointed.

In addition, the hole previews do not offer a yardage gauge, making it almost impossible to decide whether to lay up before a stream or attempt to clear it with a good drive.

Ocean wouldn't be spoiling the player by offering some sort of yardage indicator, as all pros these days have almost Ordinance Survey-like information supplied by their caddies who walk the course several times before his nibs steps out on the first tee.

Three different methods are available for actually taking a shot, ranging from the easy-peasy combined shot to the trickier hook/slice method. The latter is similar to the traditional power bar as used by most games, while the combined shot method uses a click selector for power and a moving sniper's sight which you click to stop at the desired part of the ball.

This is fairly easy, so the player can elect to introduce wobble to make stopping the sight at the correct spot a lot harder. The third method is the chip/punch screen from which you select how much loft you require then choose from five types of chip and punch. Around the greens and when stuck under a tree, this method comes into its own.

On the whole, Ryder Cup Golf never really feels like golf. The poor ball flight mechanics, a nagging suspicion that those fairways are actually completely flat, and the seeming lack of effect of the wind on the ball rob an otherwise neat play system of realism.

45%

Shot mechanics can be as tricky or as simple as the player chooses

Hole previews are handy, but maps should be larger

OPINION 65%

Ocean have produced a golf game which refuses to be categorised in the normal way. In terms of its simulation, the game is badly flawed, but the variety of shots on offer gives Ryder Cup Golf a flexibility in gameplay which many will find attractive.

Probably the game's best element is that it is a team event, and it is here that the drama of the Ryder Cup is at least partly reconstructed in pixel form.

Choosing from the last European or USA team (you can play on either side), the player has the job of selecting who plays who and in what order, making the role of captain one of the most important.

There's no point in putting your best players against the other side's weakest in the hope of quick points, because your own weakest players will take a real trouncing when their turn comes up, and as each player performs in a similar fashion to his real world counterpart, the golfing fans among us will have a much easier time of it.

As the three-day event unfolded, I found myself skipping from match to match in an attempt to bolster flagging rounds. Faldo and Woosnam can usually be left to their own devices, but some of the other players, if left under computer control, will be less predictable, and the game aids team play immensely by enabling the player to change the golfers he has under his control at the end of each hole.

This makes it possible to stay on your favourite hole and play each match as it comes through, and I managed to win four in a row doing just that.

On the other hand, the warm glow at winning a hole can quickly dissipate when the score board comes up showing that the other matches are losing ground.

The extra challenge of team play in an intensive three-day tournament lifts what is otherwise a very average game with good graphics, and had the golfing simulation been better, Ryder Cup Golf might have been a very good game indeed.

Come with me on a journey into space to play the Syd Mead-inspired strategy war/mining simulation that is Maelstrom. Jonathan Maddock grabs his gun and shovel and heads off to war

Publisher: Empire
Developer: PAS Systems
Disks: 6
Price: £34.99
Genre: Strategy
Hard disk Install: Yes
Control System: Mouse
Supports: A500/A600/A1200/A4000
Recommended: 68000 upwards

Maelstrom

INTRODUCTION

Look at the state of this country, and the government is to blame for it all! Now it's not like me to start a political rant at the beginning of a review, but I have my reasons for this outburst. How many times have you thought that you could run the country better than some of today's hapless politicians?

Well, now you can get first-hand experience of running not only a country, but a whole planet, courtesy of Maelstrom, Empire's brand new simulation.

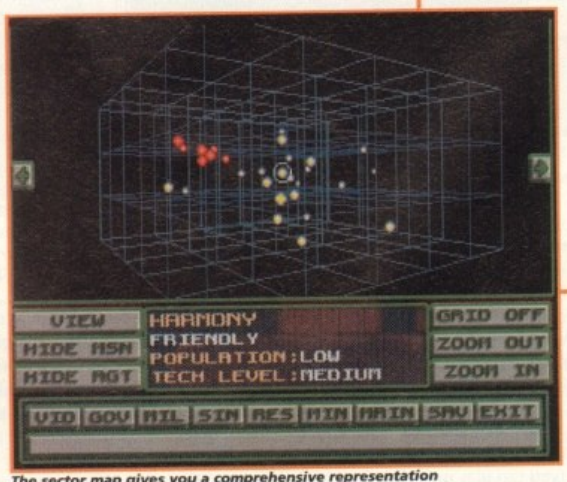
PAS Systems have spent the last two years developing Maelstrom and have tried to achieve maximum realism not only in terms of the mechanics of running a government and fighting a foe, but also in terms of the interaction between people and factors in the game.

As in real life, Maelstrom features a galaxy that is never constant: its characters have moods, its technology is fallible, its leaders are whimsical, and its masses unpredictable.

Maelstrom provides you with all the tools for interacting with an entire galaxy while controlling your military, secret intelligence network, research and mining operations.

As Overlord, you need to suggest where on Harmony to survey, and based on survey reports, where to mine

One of those fantastic animation sequences which doesn't actually add anything to the game whatsoever!



The sector map gives you a comprehensive representation of the entire galaxy, all lovingly presented inside a 3D grid

The start of your quest and your helpful and intelligent assistant is there on the Televid to answer any questions you might have

STORYLINE

You were once an officer of rank in the Syndicate forces. You were given a one-man mission to investigate the planet Harmony for a possible take-over. Knowing the explosive composition of Harmony's surface, you were looking for a means of take-over other than a space-ground assault.

During the flight, second thoughts entered your mind. Though you were not of the highest rank, your knowledge of the Syndicate's methods of colonisation turned you against them.

Harmony is a peaceful mining community and it bothered you that you were helping the Syndicate usurp the government, as this would've meant killing innocent miners and their families. When you reached Harmony, you defected and joined the people of the planet.

The people, pleased with this transition, appointed you to the position of Overlord. This puts you in charge of all operations. You must stop the Syndicate before they capture Harmony and change the galaxy into a ruthless dictatorship.

SOUND

If you're looking for an orchestral atmospheric sweeping soundtrack, layered with ear-enlightening sound effects, then don't buy Maelstrom because the sound is virtually non-existent.

I'm not saying that Maelstrom particularly needs amazing sound, but a slight touch of music here and there would've gone a long way to improving the game and giving it that much needed shot of atmosphere.

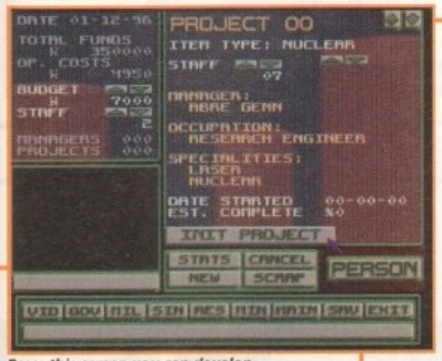
The only sound effects you'll hear are a few beeps and bangs and even they aren't exactly awe-inspiring. If you want good sounds, then you'll just have to go somewhere else I'm afraid.

30%

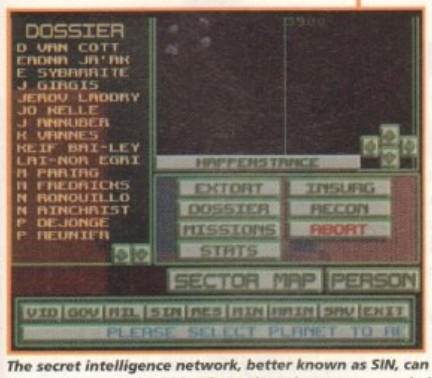
ADDITIONAL INFO

Syd Mead is the man who inspired Maelstrom. Syd is a world-renowned industrial designer and futurist and is perhaps best known for his participation in designing *Blade Runner*. Mead has also been a major contributor to other feature films including *2010, Aliens, Star Trek: The Motion Picture* and the Disney classic *Tron*.

This is not Syd's first game though, because back in October 1993 he had a hand in producing CyberRace on the PC and Macintosh for Cyberdreams, the company behind the highly successful Dark Seed.



From this screen you can develop inventions, ranging from better mining equipment to an improved plumbing system for all of Harmony



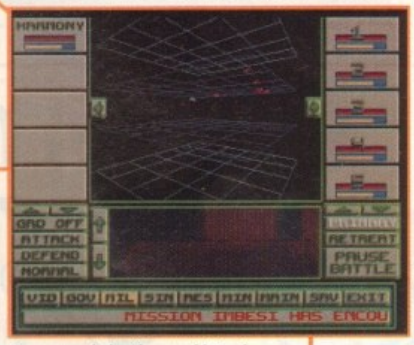
The secret intelligence network, better known as SIN, can be used to unearth hidden facts about important people in the galaxy, and in some cases extort money from them

FLASHBACK

It's quite a hard task to find a game that you can compare Maelstrom to, as it contains a lot of different gaming elements. The closest game that I can think of is Virgin's Dune 2, which received 81 per cent back in September 1993 and was highly acclaimed by critics and punters alike.

The gameplay consisted of constructing new buildings, repairing any existing and damaged buildings, scouting out new areas of land, mining and destroying the opposing forces.

Dune 2 is one of those games that grows on you, if you stick at it. There's plenty of depth and challenge in Virgin's strategy game and it's quite well executed. Dune 2 was a good attempt at a difficult genre to succeed with.



Your armada has bumped into the enemy and battle has commenced. From this point you get to command the action and decide your fate

GRAPHICS

Maelstrom isn't the sort of game that requires state-of-the-art graphics and most of the time the screen is full of words and figures for you to interpret to decide what you're going to do next.

The only section where you get lots of visuals is when you're talking to various people through the Televid screen. This is used for contact with all the important people in the galaxy, including your cabinet on Harmony. In addition to talking to these people, you can also view their personal files for background information.

I suppose the only section of graphics worth mentioning is when you select the sector map or when an event occurs and you get a short animation. The sector map gives you a comprehensive representation of the entire galaxy, all presented inside a 3D grid.

It's handy for finding those planets, but once you've found them there isn't a lot more the map feature can do, so it seems that this is quite a superficial addition that really isn't necessary.

The animations are quite nice, but they're definitely not integral to the gameplay and seem to have been put in Maelstrom so that you forget about all the other "basic" graphics.

45%

OPINION 48%

Maelstrom is an incredibly in-depth strategy game and one which seems to have more bad points than good. For instance, because it is so open-ended you don't actually have much idea of what you must do.

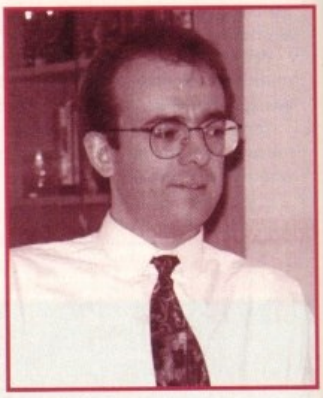
When things like battles and the event animations do start to happen it does get slightly more interesting, but these events won't hold your attention for long. The game is supposedly very realistic in terms of interaction between people and factors, but total realism isn't always a good thing in computer games.

If you are a fan of this genre then you will definitely need a hard drive unless you've got the patience of a saint. It all comes on six disks and has loads of annoying swaps which constantly interrupt the game.

For a product that has taken two years to develop, I expected to get a lot more. Maelstrom is just so in-depth that it actually makes playing the game not very exciting, not very entertaining and not much fun.

If you're looking for a decent strategy game then take a look at the excellent K240 or Dune 2, but I would only recommend Maelstrom to the die-hard strategy fan.

Guy Miller
Product manager/game designer



system analysis

Better

Up against morbid mercenaries and sword-wielding adventurers, Jonathan Maddock quivered in a corner as System zoomed down to Derby to check out what's coming soon from Core Design

Deep in deepest Derby a sets of brains are ticking away. They are thinking thoughts about mass destruction and big guns. The brains in question belong to posse of game developers, and they might all have psychopathic tendencies, but as far as game design goes this is not such a bad thing.

Cutesy, fluffy and cuddly game characters are out – this is 1994 and gun-toting, hyper-hi-tech, Exo-skeleton wearing, morbid mercenaries are in. The game developers I'm talking about all work for Core Design and their latest project is Skeleton Krew – a blastfest from hell.

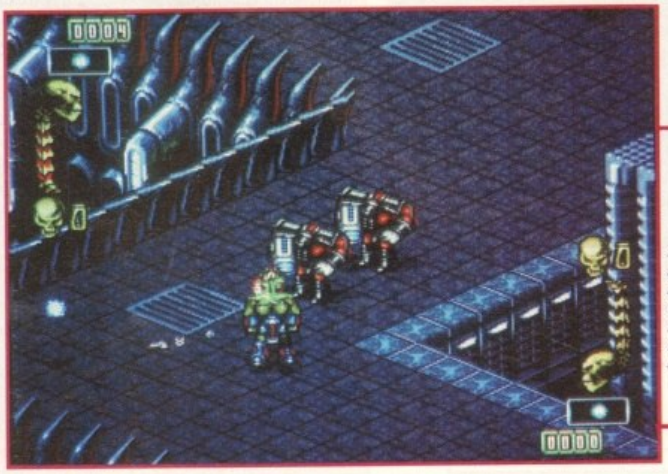
Core's blast-'em-up is a story about some awful cryogenic mutations known as Psykogenix who have overrun an entire city while under the command of an evil ex-mortician and erstwhile cryogenics experimenter called Moribund Kadaver.

News that Moribund has created a terrible Psyko Machine reaches the headquarters of the Military Assertainment Department. In desperation, the MAD call upon the services of a team of morbid mercenaries called the Skeleton Krew.

You can choose from three characters, Spine, Joint and Rib, with the fourth member of the Krew, Skulker the operations vehicle, appearing in a computer-controlled advisory capacity during between-level scene-setting sequences.

The action takes place in an eight-way scrolling isometric environment, with the main on-screen characters split into upper and lower sprites, thus allowing them eight-way directional movement and an eight-way field of fire.

System talked to three of the development "krew" to get the low-down on what looks like becoming one of the greatest 3D isometric games ever to appear the Amiga.



Skeleton Krew is still a few month's away from completion, but as you can see it's looking sexy indeed

Q ***What did you do before you started work at Core Design?***

A I joined Rare Ltd (a company better known as Ultimate Play The Game, creators of Knightlore and Underwurlde) in Twycross in the 80s, first as a graphic artist and then as their creative designer – putting together storyboards for a variety of games on the Nintendo Entertainment System. The most successful of these (in the US, at least) was Battletoads.

Q ***How did you come up with the idea for Skeleton Krew?***

A Chris Long, the Mega Drive programmer, had the idea of doing a two-player, 3D isometric shoot-'em-up. I then got together with James Ryman and we came up with the idea of the 'Krew, a bunch of psychotic anti-heroes with sexy exo-skeletons and big guns, battling against evil ex-mortician and cryogenic experimenter Moribund Kadaver – and his army of deadly Psykogenix – across six levels of morbid mayhem!

Q ***Three-dimensional isometric shoot-'em-ups are few and far between in the Amiga games world. Why did you choose to use 3D over the standard 2D view?***

A Mainly because of the fact that 3D isometric shoot-'em-ups are a rare beast on any games platform. We just thought it would be great to have a 3D environment to blast about in.

I personally get more out of playing a game where you've got 3D depth and more freedom of movement rather than moving in a single, sideways direction through a flat 2D environment.

Q ***What makes Skeleton Krew different from every other blast-'em-up? Are there any unique features?***

A Well, it's got a 3D isometric viewpoint for starters! Mix that with the best graphics and animation you're likely to see this year, the best characters, the biggest and best explosions, more gore than a gorefest, a stompin' soundtrack, more action than a Steven Seagal movie, lastability, playability and blastability – we think we've got a shoot-'em-up that'll put all others to shame.

Q ***Skeleton Krew is a major league blast-'em-up, but just how much violence is in the game?***

A Violence? Loadsaviolence. So much, in fact, that you'll have to keep telling yourself "it's only a game", but that's what it is – a game. This is cartoon violence we're talking about here. It isn't real. Nobody really gets hurt. Only pixels and they don't feel a thing.

by design

Jason Gosling

Programmer

Q ***What did you do before you started work at Core Design?***

A Life before Core was spent producing rave flyers for a venue in Mansfield – a far cry from programming. For eight years before I came to Core, programming was a major hobby, though.

Q ***Skeleton Krew will only appear on the A1200 and CD32. Why isn't there going to be a A500/600 version?***

A When we first started this project, the A500/600 was thought to be too limited for what we wanted to produce in speed, colours and so on. However, we haven't completely written-off an A500/600 scaled-down version of the game.

Q ***What "amazing" features can the A1200/CD32 owner expect to see?***

A Well, it'll be fast and the sprites will be much larger than most people are used to. Joint, for example, is 58 pixels wide and 48 pixels high – and that's big! There'll also be 2,000 colours on-screen at any one time and a full-screen isometric viewpoint.

Q **What do you think of the new CD-based technology?**

A I think it's a very good for what it is – a huge storage medium and high-quality music system. Its full potential as a games medium is really up to individual game designers.

Q ***This is apparently your first major games programming job. How are you finding things in the big scary world of game making?***

A Very down-to-earth. It's really not what most people imagine – nobody gets rich overnight, for example, and most people don't drive expensive sports cars. But money isn't everything and the work is very satisfying – when things go rights!

Q ***The sprites in Skeleton Krew are a bit on the large size. What are the advantages and disadvantages of using such big sprites?***

A The main advantage is that bigger sprites make it easier for the player to see what's happening and it's more fun to take control of a big character than a tiny little thing. The disadvantage is that there's a difficulty in keeping the speed up.

Q ***Apparently the game's characters can rotate their bodies a full 360 degrees, allowing them to fire in one direction while walking in another. How difficult was it to implement this control method?***

A This was one of the most difficult phases of the project. There are over 120 frames to Joint alone, all sequenced according to several factors, including direction and whether he is shooting or jumping. The control will have to be customisable, ie a one button controller and keyboard or a multi-button controller.

James Ryman
Production Designer

Q What did you do before you started work at Core Design?

A Like Guy, I'm a Rare escapee. Jeremy Smith (Core Design's MD) made us an offer we couldn't refuse. I'm glad I accepted. Core's a great, truly creative company to work for. Unlike some others I could name.

Q How did you come up with the idea for Skeleton Krew?

A Guy and myself got together and used our warped minds to invent a warped world filled with warped characters to give warped thrills to warped people like us.

Q Explain the processes involved in designing a game, from simple sketches to finished product

A The first thing to do is get the initial idea. In this case, Chris Long decided it would be great to do a two-player, 3D isometric shoot-'em-up. Then Guy and I fleshed out the concept and storyline, while Jason Gosling and Chris worked on the initial code.

Meanwhile, I'm sketching like crazy, wasting loads of trees on game ideas and character designs, while Guy works up the storyboard/game design/map designs for presentation to the powers that be. This gets the go-ahead and it's game on...

Q As a rule most shoot-'em-ups slowly become tedious. How will you solve this problem with Skeleton Krew?

A By the inclusion of secret rooms, power-ups, traps and the like, and a very basic strategy/puzzle element throughout the game – basic as in shooting one thing to make another thing appear and then shooting at that.

Q You're responsible for drawing graphics for the Mega Drive version. How are you finding it working in a 3D isometric view?

A My true role is as production designer, which means that I am responsible for the graphical look and feel, character designs and atmosphere in all versions (A1200, CD32 and Mega Drive) of the game.

Three-dimensional work has its own problems, but then so do other types of game. Hey, I'm a professional, I can overcome any problem!

The start of the adventure and Ebryn finds himself lost and confused on the dark and desperate streets

The hero of Core's forthcoming 3D isometric RPG unsheaths his sword and makes light work of one of the many enemies that he will face on his quest

DARKMERE

There hasn't been a really good 3D isometric adventure on the Amiga since the Bitmap Brothers released Cadaver, so I think it's about time for another. In Core Design's forthcoming role player, you play the role of Ebryn, the son of an Elven king known as Gildorn.

For many years the villagers of Darkmere were terrorised by the mighty dragon, Enywas. The Elven Council refused to help the villagers with their fire-breathing predicament, but Gildorn couldn't condone this form of non-action, and with sword and a scrying crystal in hand he set off to slay the dragon.

The battle was long and hard, but Gildorn succeeded. Years later when he was old and weak, his son Ebryn had become a brave fighter. But due to neglect and disinterest, the land was once more becoming a magnet for evil.

Then one day, the skies grew dark and the wrath of the demons was cast down upon the village. Ebryn was given his father's sword, the one with which he had slain the mighty dragon.

As heir to the throne, it was Ebryn's quest to uncover the mysterious curse of Darkmere and avenge the people of the village – but this time for ever.

Darkmere promises to be a true role-playing game with an interactive style of play. Graphics-wise it's by far the best looking adventure that I've ever clapped eyes on.

There will be animated backgrounds on each of the 600 screens, plus exceptional graphics and animations including on-screen combat.

Darkmere features three massive levels, each with over 150 isometric 3D locations. Atmosphere is provided by over 100k of sampled sound in each level.

If what System has seen so far is anything to go by, Darkmere could well be challenging for our adventure game of the year..

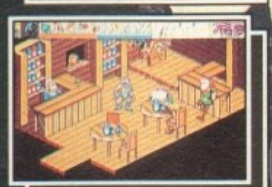
Not all creatures are your enemies. Chop up these rabbits and you can eat them to replenish your energy stores

Wandering around Level 2, and Ebryn comes up against a skeleton with an attitude problem

And so it was that during the age of Ragnarok, Heimdall, beloved of the Gods, came to Earth from Valhalla to find the pieces of a Sacred Amulet - the power of which would banish the evil Loki from the viking lands.

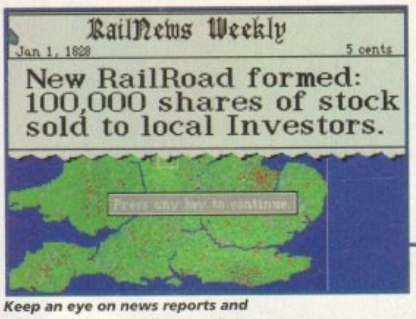
It came to pass that Heimdall's quest was revealed in the mighty saga that is....

Heimdall 2



COMMODORE AMIGA (1 MEG ONLY)
A1200 ENHANCED VERSION
AMIGA CD32

CORE DESIGN LIMITED TRADEWINDS HOUSE 69/71A ASHBOURNE ROAD DERBY DE22 3FS TEL: (0332) 297797 FAX: (0332) 381551



Keep an eye on news reports and what your opponents are up to

Publisher: Action Sixteen
Developer: MicroProse
Disks: 2
Price: £12.99
Genre: Simulation
Hard disk install: Yes
Control system: mouse/keyboard
Supports: A500, A1200, A4000.
Recommended: 68000

Railroad Tycoon

Building railways is a highly unusual concept for a computer game and not surprisingly it may raise an eyebrow or two. However, MicroProse have taken a potentially dull subject and released an original and fun simulation in Railroad Tycoon.

Brought to you by the author behind many a good strategy game such as the well renowned Civilization, Sid Meier aims to capture in Railroad the essence of building an empire.

As an entrepreneur in the 1800s, you need to develop your empire by building railways. Although this sounds relatively easy, you're not the only one who sees opportunities for wealth in the railway industry. You will need to develop a competent strategy to see off your rivals.

To start the game you choose which one of the four countries you wish play in, each one having its own significant place in railway history, and its own economy.

For example, play in England around 1828 and you will need to consider that cotton used in the mills around Manchester needs to be transported from the harbours of Liverpool.

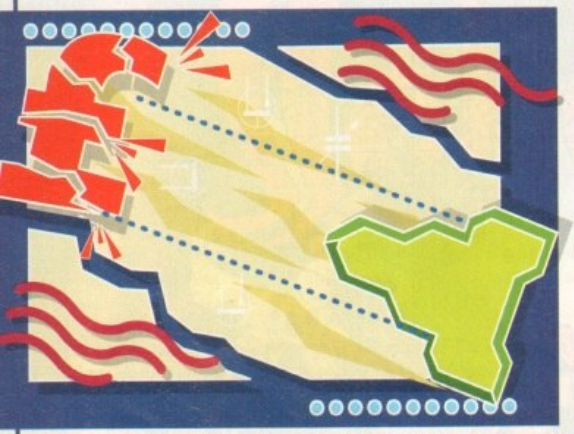
You have to keep a close eye on your funds; careful handling of limited finances is essential, so you'll find yourself having to decide between buying more trains or adding more facilities or stock purchases, for instance.

Decisions as to where to lay track, what types of train to use and when to schedule them lie in your hands. Your ultimate aim is to build the most profitable railway so you can retire to a prestigious position.

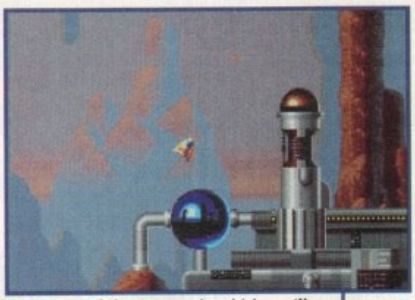
This is a very original game and darn good fun to boot! Definitely worth a look at this budget price.

58%

system essentials



Each month System will bring you the latest budget games for both the Amiga and the CD32. This issue, Tina Hackett explores Railroad Tycoon and flies into the future to the gravity space world of Fly Harder



Here's one of the reactors in which you'll need to guide the energy spheres

Publisher: Krisalis
Developer: In-house
Disks: 1
Price: £14.99
Genre: Gravity
Hard disk install: N/A
Control system: Control pad
Supports: CD32
Recommended: N/A

Fly Harder

Our second low-priced offering is an Amiga port-over for the CD32 via Krisalis' budget label, Buzz.

As a mixture between a blast-'em-up and a gravity-'em-up (let's call it a blastivity-'em-up for the sake of argument), the aim of Fly Harder is to find and collect energy spheres and drop them onto reactors.

The gravity element provides the difficulty here, and you're going to have to be pretty quick with the controls to manipulate your spaceship close to the spheres and then guide the spheres to the reactor. Having dropped all of the spheres onto the reactor, you progress to the next level. The story behind Fly Harder is that you are on an interstellar spaceship heading towards the planet Zarkow when you are informed that the Targoid insect people have installed powerful reactors in the planet's cavern system – reactors which will drain the planet's energy supplies and raw materials.

This is where your help is needed. As one of the ship's finest pilots you are sent to try and save the planet. And as if life wasn't difficult enough, the Targoids have invented a complex security system which you will need to get past before you can destroy the reactors.

The Targoids will try and block your attempts with laser barriers, for instance, which you must try and switch off to pass unhindered. The difficulty level of the game can be set. Degrees of Targoid aggression can be altered, as can the amount of gravity that affects you, so the game is accessible to the novice player while retaining a fair amount of longevity, even for the expert. The password system is helpful, as even though the game becomes highly addictive, it would be extremely annoying starting from the beginning every time – especially as the life meter isn't exactly over-generous.

Visually, Fly Harder is impressive. Backdrops are clear and detailed and give a feeling of depth and realism. The game clearly benefits from the CD's quick loading abilities and enhanced sound, too, with smooth scrolling making for great playability, and the sound effects adding much atmosphere.

Fly Harder is a good example of the direction in which the CD game should be going in terms of gameplay and scrolling, but does not really show off the machine to its full potential, probably because it is merely a port-over.

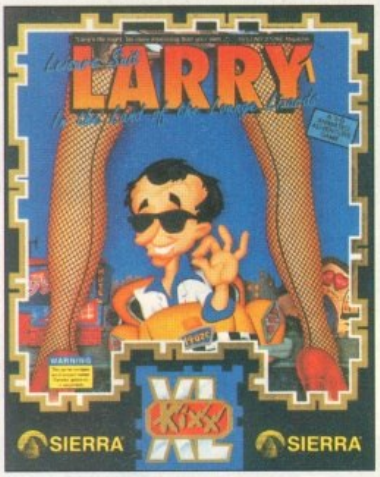
But it is a highly playable and addictive game. Although a relatively unusual title, it can be likened somewhat to Thrust. It's rather difficult to get the hang of at first, but will keep you glued to your screen for a good while.

63%

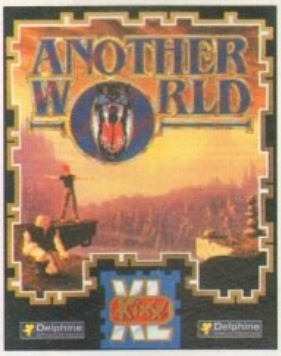
Make the ConneXion

▲ Eye of the Beholder
CBM Amiga, PC & Compatibles 3.5"
RRP £16.99

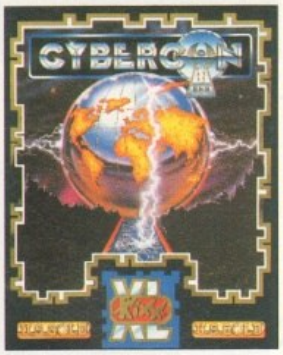
▲ Winter Gold
C64 disk, Atari ST, CBM Amiga, PC & Compatibles 3.5" RRP £14.99



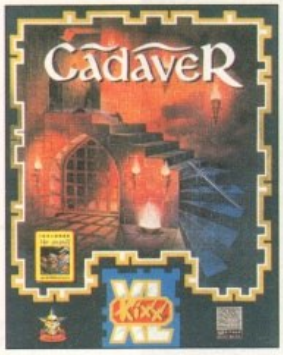
▲ Leisure Suit Larry 1™
Atari ST, CBM Amiga, PC & Compatibles 3.5". Also available Leisure Suit Larry 2™
RRP £14.99



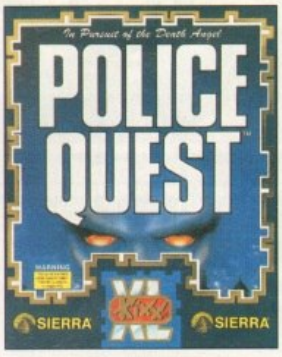
▲ Another World
Atari ST, CBM Amiga, PC & Compatibles 3.5" RRP £14.99



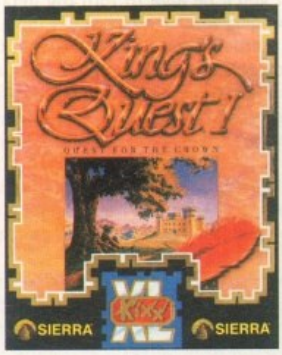
▲ Cybercon III
Atari ST, CBM Amiga, PC & Compatibles 3.5" RRP £12.99



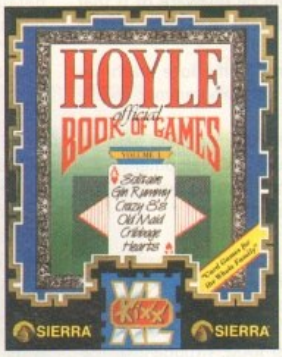
▲ Cadaver/Payoff
Atari ST, CBM Amiga, PC & Compatibles 3.5" RRP £14.99



▲ Police Quest 1™
Atari ST, CBM Amiga, PC & Compatibles 3.5" RRP £16.99



▲ King's Quest® I
Atari ST, CBM Amiga, PC & Compatibles 3.5" RRP £14.99
Also available King's Quest® II
RRP £12.99



▲ Hoyle® Book of Games Vol. 1
Atari ST, CBM Amiga, PC & Compatibles 3.5". Also available Hoyle® Book of Games Vol.2
RRP £12.99

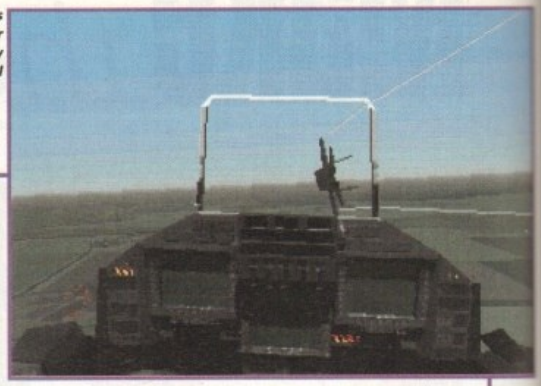
▲ Space Quest® 1
Atari ST, CBM Amiga, PC & Compatibles 3.5" RRP £16.99

KIXX, Units 2/3 Holford Way, Holford, Birmingham, B6 7AX. Tel: 021 625 3311
Fax: 021 625 3312

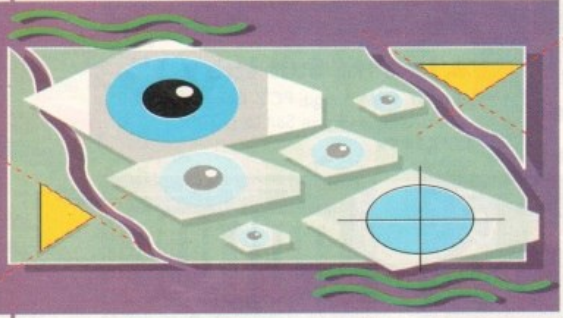
All trademarks are acknowledged as the property of their respective owners.

Even the night missions will have that edge in the realism stakes

Turning on to his six, the TFX fighter follows enemy vapour trail



system preview



After an impressive take-off on the PC, Digital Image Design are busy putting the finishing touches to the Commodore versions of TFX. Simon Clays takes a peek behind the hangar door with DID's chief Amiga coder, Charlie Wallace

Landing at night will require your ILS system

TFX

Digital Image Design have teamed up with Ocean Software on numerous occasions, Epic, F-29 Retaliator and RoboCop 3 being the most infamous. Unfortunately, RoboCop 3 aside, these previous efforts have achieved notoriety for the wrong reasons. While most would have to admit that they were all tremendously ambitious projects, they were let down by rushed schedules and poor bug testing.

But, these initial hiccups did not dampen the enthusiasm of DID, who rather than consolidating their losses, have set about proving themselves to any doubting Thomases.

Ever since its inception some 18 months ago, TFX (Tactical Fighter Experiment) has attracted a great deal of attention. Its formal unveiling came at last September's European Computer Trade Show, where it completely stole the limelight and left the crowd gobsmacked.

It was released to rave reviews on the PC and has to date sold 70,000 copies. Meanwhile, back in Runcorn, the Amiga version is busily being polished pending its imminent release. Although TFX was released on the PC first, what most people will be unaware of is that the majority of the development was done on the Amiga.

However, creating TFX on Commodore machines didn't come problem free, as lead programmer Charlie Wallis explained:

"Using the A4000 was great, but the main problem we found was the lack of quality development software. The only way around this situation was to devise our own compilers, and code around them."

LAVISH

This wasn't the only problem Charlie faced though. TFX is an absolutely huge title, and the PC version is bathed lavishly in ground and structure detail.

The A1200, with its 2Mb of RAM, struggles to handle this quantity of detail, and is left feeling rather insignificant in comparison to the processing power of a modern PC.

However, Charlie is quite confident that the A1200 version will have everything that its PC counterpart boasts: "It'll have the same amount of colour, same detail, but you'll be able to turn the detail up and down, depending which machine you're using.

"It'll be a little slower on the A1200, but the A4000 should be capable of moving polygons very quickly."

While the A1200 version should appear on about ten disks and sounds a likely candidate for the hard drive, Charlie has tried to prioritise the disks for ease of access.

"TFX is huge, in fact the PC version boasts 13Mb of information, so to make disk accessing easier on the Amiga, we separated all the campaign disks and prioritised them all to the relevant regions."

One machine that won't have to worry too much about disks is Commodore's console the CD32. Charlie confirmed that a compact disc version is well under way:

"The CD32 version will have absolutely everything, in fact it'll probably boast more features than the PC version. The CD32 has the planar chip, so we can apply texture to polygons and hopefully move them faster."

The action in TFX centres around a UN aerial peace

keeping force. As a United Nations pilot, your career will throw you into five of the most volatile flashpoints in the modern world. These hotbeds stretch from Columbia and its infamous drug barons, through to Somalia, where famine is rife because of General Mohammed Aideed and the other warlords. You can also attempt to keep the peace in war zones like Libya and Yugoslavia, where the Serbs, Croats and Muslims continue to wage war.

TFX will be no different to many of the modern combat simulators in the respect that it'll feature a campaign option. This will consist of the same mission structure as many modern simulator players are familiar with, Air Superiority, Interception, Anti-Armour, Close Air Support, Interdiction, Defence Suppression and Maritime.

MISSIONS

However, if none of these are to your liking, then the game will also feature a mission creator, so you can define your own.

To assist you in the mission create option, DID have implemented satellite imagery. This has meant that the team have had to accurately map the majority of the earth's surfaces, including most of her key rivers, valleys and mountain ranges.

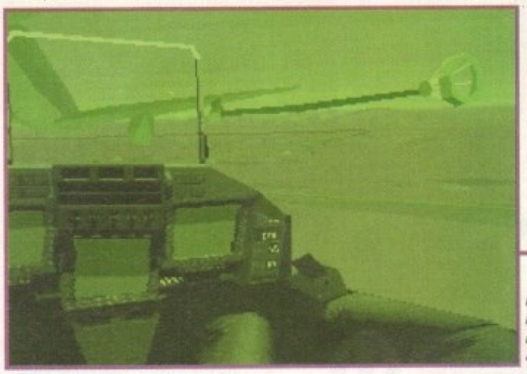
DID claim that they've developed an incredibly simple but extremely realistic system. Feedback from PC users seems to suggest that the Runcorn developers are to be believed.

TFX will also boast a whole range of external camera views and zoom facilities, and even on-board missile cameras. However, one of the most innovative features DID have thrown in is the virtual flight option. Viewing a bitmapped cockpit and pilot perspective, the plane will behave exactly as in true flight.

This means that as the plane rolls the player will see it sweep, but the pilot will remain stationary momentarily before falling in line with the rest of the cockpit. This is an aspect seldom included in flight simulators, but one which pushes TFX a little closer to the real thing.

TFX should also boast some very realistic graphics, with yet more attention being paid to detail. For instance, when you strafe ground targets don't be surprised if tracer isn't whizzing over your shoulder, and if screenshots are anything to go by, be prepared to wince as bitmapped AAA explodes around your cockpit.

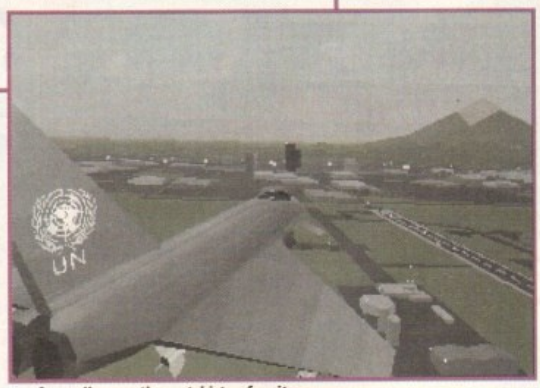
With the level of technical and graphical detail anticipated, if the Amiga versions come close to what PC owners have been revelling in then DID will surely have put Commodore machines safely back into the simulated skyline.



Re-fuel at night using night-sight equipment

The futuristic Eurofighter on a routine mission

TFX's style will make it one of the most advanced flight sims available...



...a few miles on, the outskirts of a city

Supporting a Hercules, the Eurofighter watches as it drops its payload

Simulator specialists

TFX will feature three of the most advanced aircraft in the world, each of which will fly you into battle scenarios around the globe.

Of the planes in service in TFX, only the Lockheed F-117A Stealth Fighter has yet seen the light of day. The Eurofighter 2000 is still under test and the Lockheed F-22 will probably get no further than the prototype stage.

Although TFX will cater for the arcade end of the simulator market, the team have gone to great lengths to create accuracy, as Shaun Hollywood explains:

"Initially we went through *Jane's* [techie defence industry publication – Ed] to find out the specifications of the planes. This wasn't that easy because some of the jets we're using haven't been declassified yet."

After this stage, DID enlisted a real pilot to help with the flight models, and to ensure that the flight envelope was accurate. Combat routines were coded from real footage so the team could be sure that the enemy planes would react correctly to your missiles.

In an effort to recreate technical realities, the firm looked further afield and recruited an extra dimension of knowledge. Charlie Wallace enlightened further:

"We had a professor from Glasgow University aerospace department, and an aeronautical engineer from Princetown..."

The Benefactor is as agile as Corned from Flashback – here he swings like a monkey to avoid one of the more ferocious creatures scattered throughout the game

Benefactor

system preview

Lemmings meets Flashback in this arcade puzzler from the shores of Sweden. Adam Phillips takes a closer look

Flashback and Lemmings are two classic examples of their genre – both boast polished graphics and, more importantly, excellent and addictive gameplay.

Enter Psygnosis and the programming skills of Sweden's Digital Illusions with a hybrid of the two games that looks set to be just as playable and thought-provoking.

The Benefactor of the title is actually a young hero type called Ben Bright. Very much like the one-man equivalent of the A Team, he regularly refuses payment for any help he may give because he gets so much job satisfaction from using his courage, skill and brains to outwit the enemy.

There are also never any weapons or killing involved – he knows he's better than anyone and wins every time. So, when he receives a distress call that reads "Merry Men imprisoned... Rainbow Machine captured... Planet doomed... need help", the Benefactor wastes no time and heads off to their rescue.

The first thing that strikes the player on booting up the three-level demo is the size of the game graphics; presented as a platformer with classy graphics, the size of the main character is small, very small.

Everything in fact is miniaturised to show you a large section of the level you're playing on and, like Lemmings, this adds to the gameplay rather than detracting from it. Cute could be a word to describe it especially with the Merry Men – furry Lemming-like creatures.

The actual gameplay is a mix of platforming skills and problem-solving logic. In true Flashback style, Bright leaps, climbs ledges, rolls along the ground and generally looks athletic and heroic.

After stepping out of the teleporter, the player guides this thumb-sized gymnast round the landscapes with the sole intention of unlocking the Merry Men from their cells. Then with them in tow, the Benefactor must return to the teleporter so that they can be whisked away to safety.

This basic design is enhanced and added to with the various challenging and varying puzzles met along the way. How can I leap that gap to flick a switch that will then create a platform for my rescued Merry Man to leap across onto and reach the teleporter? This question and many others need answering to ensure success within the game.

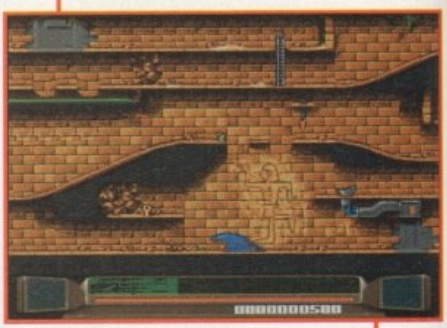
Fortunately, to save one's sanity, these imprisoned folk are not completely useless like the Lemmings – if they come to the edge of something dangerous, they'll stop or try and leap across.

They can also help by being picked up and hurried along or, in the more amusing cases, given a swift kick up the backside and sent up into the air to reach a previously unobtainable platform.

From the demo, this co-operation is one the game's strongest points as a feeling of teamwork and co-ordination comes strongly into play.

There are some 60 levels to run, leap and plot your way through. These include six different types of terrain including Caves and Egypt to Future and Blizzard. Add to this several notorious pets of the invaders, Minniatians, who have been placed throughout the game to guard the Merry Men. Judging solely from the first three missions, the Benefactor is one tough challenge and highly addictive to boot – this is looking like the next arcade puzzler to make teenagers and middle aged folk alike forget their respective generation gaps and try and help those Merry Men to get their planet back.

Let the little furry critter out of his cell and then throw him up to the platform to release the "jump further" trainers for your feet



Egyptian curses and mummies litter the later levels

Slide down wires to reach previously unobtainable platforms

PROFESSIONAL FOOTBALL MASTERS 4 VERSION

Quite simply the best Football management game for your computer. We have served thousands of satisfied customers during our 4 years of trading. Over 10,000 man hours (during 5 years) has been dedicated to the production of this constantly improving game. It is one of the most realistic and accurate representations of a professional football managers annual challenge to tactically out wit and conquer every opponent.

Managers : 1 to 4 Human players, Ratings, Performance statistics, sack and offers. 3 Difficulty levels, Manager of the month and season awarded, Pools, Pick any team in any division to begin with.

League & Cup : Premier 22 teams, Division 1,2 & 3 have 24 teams, Play-offs, Tables. 7 Cup competitions with precise rules (2 legs, extra time, away goal rule, seeded draws, European Cup tables, 5 subs, non-domestic player restrictions etc.), Finalist route to glory.

Games : Yearly fixture/previous list, Week fixtures/results, Results from previous meeting with opponent (goes back up to 6 seasons).

Players : Real life statistics reflecting the start of 93/94 season with real positions, height, age. Live transfer market, Contract & wage negotiations, Preferred foot (left/right/both), Loans, Injuries, Training, Special talents, Trainees, Goalkeepers (separate skill categories), Defenders, Midfielders, Attackers & Utility, Retirements, Foreign transfers, Unhappy players, Top 10 Hot shots.

Team : Training, Tactics (15 different styles), Aggression, Formation allows specific player field settings (Left winger, Sweeper etc.).

Club : Sponsorship, Ground improvements, View opponent, Finances

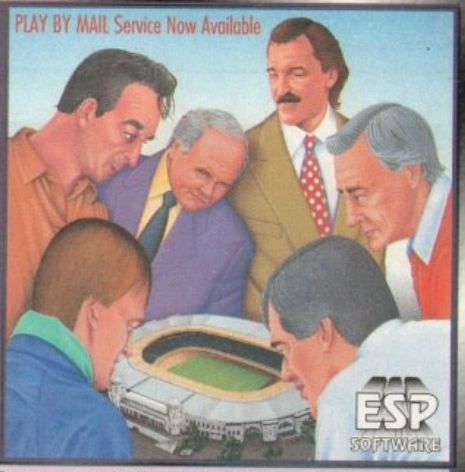
The Match : Real time scoreboard reporting goals & injuries yellow/red cards, Sound effects, Interventions permitted at any time to change tactics, formations and make subs. Physical graphical penalty participation (optional). Over 80 different referees.

Other : Fast load/save, Printer access, 20 Options to set various game preferences, Instruction book, Easy to play, Technical support.

Plus : Over 100 other meticulous refinements impossible to list here.

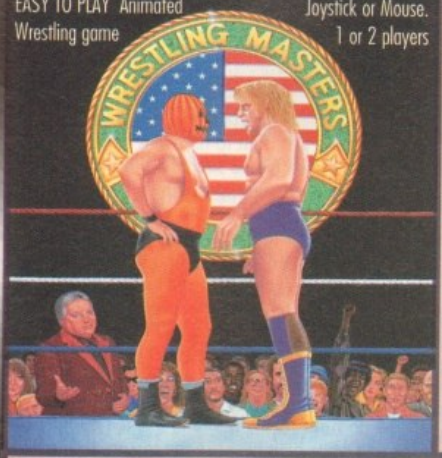
Editor : Allows you to amend various items in saved games. £12 Extra

Scottish : Dedicated version details available upon request.



EASY TO PLAY Animated Wrestling game

Joystick or Mouse. 1 or 2 players



CRICKET MASTERS

This is a purely managerial cricket manager game that concentrates on strategy and includes plenty of relevant statistics. The game has been designed and developed by a true fan of the sport. It replicates everything that a real manager has to contend with and it's a totally unique production that anyone with an interest in Cricket should experience.

A summary of the main features is shown below:-

- AXA EQUITY & LAW 18 league county teams, 50 overs per game.
- 4 Cup competitions including Benson & Hedges, Nat West.
- 20 different match umpires with accurate names and strictness.
- Accurate player details Surname, height and age.
- 27 different player attributes. Most skills have a direct impact on the effectiveness of each individuals actions during a simulated match.
- Easy player selection. All game text is clearly presented.
- Batting and bowling averages. Top batting and bowling tables.
- 3 Different training intensities to boost batting, bowling or fielding.
- Weather, pitch and light often make an impact on ground condition.

- Full match highlights let you watch the action ball by ball with full graphics and/or realistic sampled sound effects for significant events (Fours, Umpire decisions, etc.). Interventions are permitted at any time to change batting tactics or fielding placings.
- 3 Batting/Bowling classifications (Normal, Attack and Defend).
- Choice of 15 different field placings.
- Full scorecard results with best batting and bowling figures.
- Other staff (Physio, Groundkeeper, Scout) can be hired and fired .
- Annual league fixtures listing. Current week and last league results.
- View current cup competition draws and historic records.
- Real time transfer market. Player contract and wage negotiations.
- Sponsors, Printer access, Finances, Poor ground fines, Manager rating.
- 15 Options to alter game preferences, Load/Save game.
- Instruction book with plenty of examples.
- Plus many more fine details that we are unable to list here.

STABLE MASTERS V2

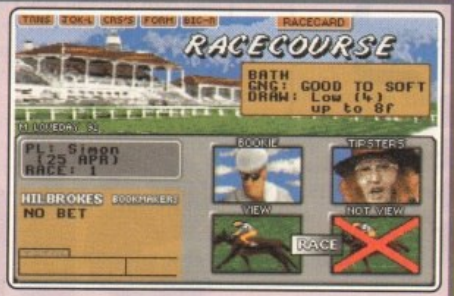
This game has been designed to be as close to real racing as possible. Five years of development by a clever racing expert has led to the second revision of this Flat Horse Racing Simulation.

Up to 4 players can participate as Owner Trainers with the primary objective of becoming the top rated trainer, in respect of prize money won, at the end of each racing season (March to November). There are up to 35 other intelligently controlled computer trainers to compete against and compare your personal performance.

To achieve this aim you must discover a potential champion and train them so that they become capable of competing well and winning any of the 47 big prize money races (Handicap and Group). eg. The Derby

To give you an idea of the tools provided in this game to assist you reaching your objective we have listed the main features below:-

- 250 horses each with over 60 independent variables.
- 26 different race courses (2 all weather), real life characteristics mirroring the diversity of racecourses in the UK (descriptions provided).



- 20 Jockeys who vary in ability and booking fees, Orders & Feedback.
- Formbook and Win Summary Cards cover the previous 200 races.
- Animated race display or just the result. View Declaration List for races.
- Very informative report by Head stable lad. Tipsters. Bookmakers.
- Racecards similar to racing press. Real life. Handicaps & Race Types.
- Viruses, Injuries & Vets. Load/Save game. Many other items included.

Version 1 is available upon request (Simple training & betting) @ £15.

ORACLE

You could have won £44,836 with this HORSE TIPSTER Utility.

Open National Tipping Competition 1991 : Organised by Racecall, regulated by the Tote, this program achieved joint second. This led to a serious approach from a well known national book maker. Rejected in favour of supporting the public.

Winnings Statistics : 104 wins out of 166, as from 2/6 to 1/9/93.

Formula : This program tells you exactly what to do. You are NOT permitted to amend our system unlike so many other similar programs. How confident can you be in something that invites amendments!

Research & Development : Three years full time race analysis and experimentation to refine and test the prediction system.

Inside Knowledge : Plenty of unique hints from contacts in the know.

User Friendly : No racing knowledge required, easy to use, tutorial book.

Restricted Sales : As soon as our programs predictions have a prolific impact on the betting odds we will stop accepting new buyers.

Monthly Updates : Highly recommended option. If any update fails to break even we'll send the next one free of charge. From £25.

Price Increase : Highly likely. Buy now before success forces increase.

World Cup Cricket Masters

A fantastic graphical and/or tactical representation of Cricket that has been completely written by a traditional fan. You can physically participate with batting and/or bowling or leave it to the computer to automatically handle. See full feature list below :-

GAME OPTIONS
- 1 Day limited overs or test.
- White or coloured clothing.
- Three Cricket grounds.
- Load/Save game. Skill levels.
- Computer/Human players.

ANIMATED ACTION
- Sound Commentary.
- Umpire signals.
- All the strokes cut, pull, drive, etc.
- Appeals, dropped catches, run outs.
- Bouncers, wides and no balls.

STATISTICS
- Scorecard & bowling analysis.
- Weather and ground reports
- Wagon Wheel
- Manhattan Chart.

PLAYER VARIETY
- Rated on 8 adjustable factors.
- Left and right handed players.
- Range of batting types.
- Editor to amend game stats.
- Bowler types include seam, swing, change and both types of spin with 8 speed levels.

FRIENDLY CONTROLS
- Icon driven with point & click.
- Large 3D scrolling screen covering the entire playing area.
- Mouse controls bowler's line, length, direction field settings.
- Joystick control of batsman's attack level, strokes and running between wickets.

VARIABLE CONDITIONS
- Surface and pace of pitch
- Rain, bad light, cloud cover, temperature and humidity.

24 HOUR CREDIT CARD HOT-LINE

VISA (0702) 600557 MasterCard

48 HOUR DISPATCH

CHEQUE PAYMENTS

If you have a guarantee cheque card or credit card please write its number on the reverse of your cheque, doing so will ensure dispatch within 48 hours of receipt.

OUR ADDRESS

ESP Software DEPT. A C
32a Southchurch Road,
Southend-on-Sea,
Essex SS1 2ND. England.
TEL. (0702) 600557
FAX. (0702) 613747

MAIL ORDERS

All the programs detailed in this advert are only available by direct mail.

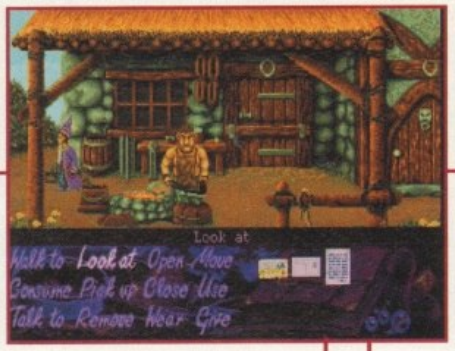
COMPUTER: ST 512K S/S	ST 512K D/S	ST 1MB	AMIGA 1MB	P.C.	DESCRIPTION A C	PRICE	TOTAL
					Professional Football Masters V4	24.95	
					P.F.M. Editor V4	12.00	
					Stable Masters V2	24.95	
					Oracle Horse Tipster (RRP £99.95)	75.00	
					Cricket Masters	24.95	
					World Cup Cricket Masters	24.95	
					Wrestling Masters	19.95	
					CREDIT CARD NUMBER & EXPIRY E.& O. E.	GRAND TOTAL	

NAME _____ TELEPHONE _____

ADDRESS _____

POSTCODE _____

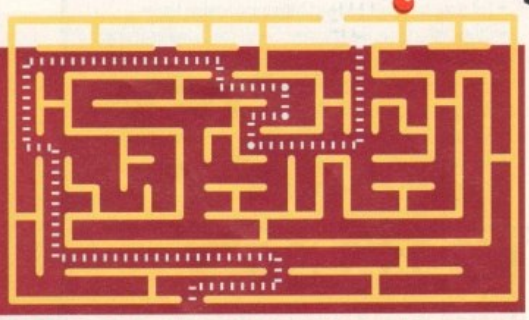
Behind the cottage you will find the compost heap



At the Blacksmiths you will need to collect the rope near the barrel

Ask the Troll if you can cross the bridge

beat the system



Adventure Soft's recently released Simon the Sorcerer is already a very popular title. So for those adventurers who want guiding in the right direction, read on with part one of our comprehensive guide

Simon the

Once inside the cottage read Calypso's note. Examine everything and on opening the drawer you will find a pair of scissors, take them. Look on the fridge and take the magnet.

Going outside, make towards the compost heap behind the cottage. Go back towards the front of the cottage and head right. You'll find yourself at the Blacksmiths. Near the barrel you will see a rope; take it.

Pick up the clapper off the table. Now head right, where you will see a dodgy geezer, but don't talk to him yet. Go left towards a cottage and pick up the ladder. Go into the cottage. At the top of the stairs you can collect a specimen jar.

On your way out of the cottage, pick up the cold remedy found near the door. Once outside head left towards the cottage with the bees outside. Remember to examine everything. Now go back towards the dodgy geezer. Walk right to the shop and have a look inside.

Now go left to the Drunken Druid and go inside. It is important to look at everything and speak to everyone. On looking at the fruit machine you will discover some matches which you'll need to take.

Speak to the wizards which can be found by walking right. To find out your quest tell them: "You'll do anything to be a wizard." Walk left and talk to the barman and watch his actions when you ask for a drink. Now go outside and head left to go out of the village.

Walking right you will find three paths; take the bottom right path to the fallen tree stump. Try to go down, the tree stump will talk to you, try to go down again and you will find yourself talking to Woodworm.

Walk down and walk left to the witch's cottage. Look at the well and move the handle. Pick up the bucket of water. Go inside the cottage and take the broom.

If the witch should throw you out, go back inside and she'll challenge you to a fight. Walk right to go back towards the tree stump. Continue right until you reach the Troll. Ask him if you can cross the bridge. Talk to the goat and then go back left until you are at the three paths again. Now take the middle path to the right. You will find a Barbarian. Talk to him and ask "What's the problem?" and then help him. He will give you a whistle. Walking right you will come to four paths. Take the first right to find Bard playing music.

When you have talked Simon will head back to the four paths. Use the top right path to find a hole. Look at the sign and talk to the hole. Doctor Von Jones will answer. Walk right to the centre of the forest and head up your nearest stairs. You will find some doors. On the floor is some paper; pick it up and look at it.

Go back to the centre of the forest and try to go into the Dwarf mine. To do so you will need a beard. Look at the rock and pick it up. Using the map, go back to the village. Go into the shop and give the shopkeeper the shopping list.

Now go right to the pub and ask the barman for a drink and while he is busy use the scissors on the dwarf. Use the map to go back to the centre of the forest.

Wear the beard outside the dwarf mine and use the password "beer" to go in. Talk to everyone and go

System Snippet

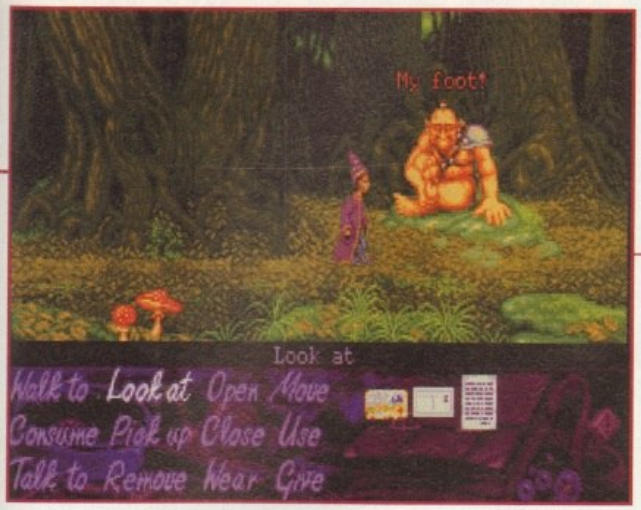
Cool 2

Go to the options screen and type BUMBLEBEE. Start the game as normal. Now you can skip levels at will simply by pressing Return.

System Snippet

Cannon Fodder

Fancy a little cheat to blast your way to success in Cannon Fodder? Go to the save screen and type in JOOLS as your saving filename. "Cheat mode activated" should appear. You will then find that your lead trooper has become a four-star general.



Ask the Barbarian: "What is the problem?"

These paths will take you to the Bard and the hole

down into the cellar to find the drunken dwarfs. Examine everything.

Go back outside and remember to remove your beard. Walk right until you find the Woodcutter. Talk to him and take the metal detector he offers you.

Walk right to the Gorge, now go right, then left, left back to the centre of the forest. Go up the steps to the right and go into the cave entrance. Walk right until you see a door; open it.

Go inside and talk to the character, consume the first bowl of stew. Ask him for another bowlful. Use the specimen jar with the stew. Ask for another bowlful and consume the stew. When he has gone, look at everything. Move the chest, open the trapdoor and go down the ladder. Walk right and go back up the ladder. Leave the house.

Walk right and use your metal detector. Carry on right until you come across the giant, talk to him. Now use the map to get to the Troll bridge, tell the Troll that you'll get him some Goat.

Pick up the placard and walk right to the three paths. Take the bottom right path and continue right until you meet a crossroads. Go right and use the bottom path. You will come across a bell, use the clapper with this bell and move the bell. Now use the hair to climb up the tower where you will meet Repulser. Tell her you have come to rescue her and kiss her. Pick up Repulser and again use the hair to climb down.

Walk left to the crossroads and take the top path. You will see some vines; climb down them. You will meet the Golum who you can give the stew to.

After using the map to take you back to the village, go through the Arch. On the left you will see the dodgy geezer who will talk to you. You should look at what he has, but tell him you're not interested.

Go through the arch and left, back to the cottage with the bees outside. Use Repulser on the chocolate truffle door. Go inside and look at everything. Pick up the hat and the smokebox.

Outside again, make towards the beehive where should use the smokebox and then take the wax. Now go into the pub and ask the barman for a drink. While he is busy, put the wax into the beer barrel situated behind him.

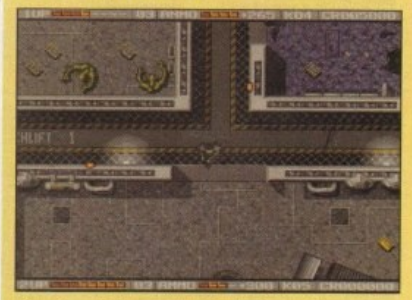
Goal

SYSTEM SNIPPET

If you should have a player sent off, simply bring on a substitute by pressing the substitution key. When on the team selection screen, click on the name of the player who has just been sent off. Then click on the substitute you want to bring on and return to the game. Therefore nobody is actually taken off.

SYSTEM SNIPPET

Alien Breed 2



Alien Breed 2 is causing much frustration, so here are some level codes:

Level 1 Landing Pad 1: 098654
Level 1 Landing Pad 2: 736353
Level 1 Landing Pad 3: 243433
Level 1 Landing Pad 4: 378829
Level 1 Landing Pad 5: 000000
Level 2 Civilian Zone 2: 353828
Level 3 Civilian Zone 2: 108383
Level 4 Civilian Zone 3: 370101
Level 5 Civilian Zone 4: 982822
Level 6 Security Passage: 847464
Level 7 Science Zone 1: 737373
Level 8 Science Zone 2: 928112
Level 9 Science Zone 3: 287364
Level 10 Science Zone 4: 193831
Level 11 Security Passage: 090921
Level 12 Military Zone 1: 309383
Level 13 Military Zone 2: 101211
Level 14 Military Zone 3: 103992
Level 15 Military Zone 4: 998112
Level 16 Planet Surface: 125332
Level 17 Underground Shaft: 091233

Sorcerer

Look at the sign and talk to the hole

Use the clapper with the bell

SOFTWAR

We are recognised in the Amiga community as one of the leading specialists in Hard Drives and Mass Data Storage.

AMIGA A4000/040

The flagship of the Commodore Amiga range. Based around the 68040 processor. Comes with a Hard Drive, 2+4 RAM and WB 3.0.

85 Mb version – £1899
130Mb version – £1919
200Mb version – £1939
250Mb version – £1979
340Mb version – £2069
426Mb version – £2149
540Mb version – £2299

AMIGA A4000/030

The same specifications as it's big brother but designed around the 68030 processor. The A4000/030 comes with a Hard Drive, 1+1 RAM and WB 3.0.

(FOR 2+2 PLEASE ADD £69)

85 Mb version – £899
130Mb version – £969
200Mb version – £999
250Mb version – £1039
340Mb version – £1099
426Mb version – £1199
540Mb version – £1299

AMIGA A1200

The A1200 sports many of the features of the A4000 series. Based around the 68020 processor with 2Mb of RAM and WB 3.0 as standard. A full range of Hard Drives are also available for the A1200.

Basic A1200 - £289
40Mb H.D version - £388
60Mb H.D version - £445
85Mb H.D version - £468
120Mb H.D version - £494
170Mb H.D version - £528
200Mb H.D version - £548
256Mb H.D version - £578

DESKTOP DYNAMITE PACK

The desktop Dynamite Pack contains 5 pieces of software written specifically for the AGA chipset, which includes DpaintAGA, WordworthAGA, Oscar and other with a total street value of over £300.
(PLEASE ADD £40 FOR DTD PACK)

GRAPHICS AND VIDEO

REAL3D 2	£378.50
ART DEPT PRO	£134.99
MORPH PLUS	£136.99
DPAINT 4 AGA	£ 66.00
DPAINT 4	£ 59.99
SCENERY ANIMATOR 4	£ 54.99
VISTA PRO 3	£ 44.99
MAKE PATH	£ 23.99
TERRAFORM	£ 23.99
SCALA MM210	£ P.O.A
SCALA MM300	£ P.O.A

UTILITIES

X-COPY PRO	£ 31.99
GB ROUTE PLUS	£ 32.99
LATTICE C V6.1	£259.99
DIRECTORY OPUS	£ 46.50
VIDEO BACKUP SYSTEM	£ 49.95
QUARTERBACK TOOLS	£ 47.50
DEV PACK 3	£ 53.99
VIDI AMIGA 12	£ 81.95
DISTANT SUNS V4.2	£ 39.99

MUSIC

STEREO MASTER	£ 29.99
BARS & PIPES PRO	£215.99
TECHNOSOUND TURBO	£ 58.50

WORD PROCESSOR & DTP

WORDWORTH 2	£78.99
FINAL COPY 2	£74.99
PENPAL	£28.95
PAGESETTER 3	£43.99
PRO DRAW V3.0	£64.99
PRO PAGE V4.0	£89.99

GAMES

CIVILISATION AGA	£ 39.00
CIVILISATION AGA UPGRADE	£ 19.00
(SEND YOUR DISKS AND DETAILS)	

PRINTERS

CITIZEN	
CITIZEN 240	£212.00
CITIZEN 240C	£234.00
PANASONIC	
KXP 2123 COLOUR	£210.00
KXP 2023	£178.00
HEWLETT PACKARD	
HP 500C	£290.00
HP 510	£246.00
HP 550C	£490.00

DEMON

OVERDRIVE 35

These external hard drives come in an ABS box styled to match the Amiga A1200. They plug in via the PCMCIA slot and include an external PSU so as not invalidate your Commodore warranty. Ultra fast transfer rates of up to 2Mb/sec. Full 1 year warranty, all the software needed to mount and configure the drive is included.

130Mb version –£299
200Mb version – £349
250Mb version – £399
340Mb version– £449
426Mb version– £549
540Mb version– £699

A1200 UPGRADES

GVP SCSI/RAM BOARD

This board is user fittable via the trapdoor expansion slot of the A1200. It has slots for up to 8Mb of 32bit RAM, a maths co-pro and includes a SCSI interface as standard.

0Mb / NO FPU	£179.00
4Mb RAM/33MHz FPU	£349.00
SCSI CABLE KIT	£ 59.00

GVP A1230 BOARD

Another quality trapdoor expansion for the A1200. It features a 68030 processor as standard and has slots for a maths co-pro and up to 8Mb of 32bit RAM.

0Mb / NO FPU	£269.00
4Mb RAM/40MHz FPU	£439.00

GVP ACCESSORIES

33MHz 68882 FPU	£ 99.00
40MHz 68882 FPU	£129.00
1Mb 32bit RAM	£ 64.00
4Mb 32bit RAM	£153.00

DKB RAM BOARD

This budget expansion board fits via the trapdoor. It has 2x32bit SIMM sockets for up to 8Mb of memory, a 16MHz 68881 FPU, and a battery backed clock fitted as standard.

DKB with 0Mb RAM/68881	£ 99.00
DKB with 1Mb RAM/68881	£129.00
DKB with 4Mb RAM/68881	£229.00

IDE INTERNAL HARD DRIVE KITS

These kits come complete with screws, instructions and all the software necessary to prep and configure the drive.

40Mb–£139 60Mb–£119 80Mb–£179
120Mb–£279 209Mb–£399

A4000 UPGRADES

PHOTON (FOR A4000/030)

This board wil transform an Amiga A4000/030 into a fully fledged 040. It features a 040 CPU module with a MMU and a built-in FPU running at 25MHz.

PHOTON UPGRADE £699

HELLFIRE (FOR A4000/030)

This is a replacement CPU board for the A4000/030. It features a 50 MHz clock speed, a built in MMU and a 50 MHz 68882 FPU. Your 030 will only be 10% slower than an 040 during most operations.

HELLFIRE UPGRADE £299

DKB 128

The DKB 128 is a 0 wait state memory expansion board for the A4000 series. It has slots for up to 128Mb of 32bit RAM using SIMMS of any size. It is a true ZORRO 3 card which makes for a very fast board.

DKB BOARD (BLANK) £269 (See chips for memory)

HARD DRIVES (A1200 & A4000)

These Hard Drives can be fitted at any time by us (FOR THE A1200) or the end-user. All the necessary software is included.

85Mb – £129.00
130Mb – £149.00
200Mb – £199.00
250Mb – £249.00
330Mb – £299.00
426Mb – £369.00
540Mb – £399.00
FITTING FEE FOR A1200 £ 29.00

CHIPS

1Mb SIMM	£ 39.00
4Mb SIMM	£134.00
25MHz 68882 FPU	£ 89.00
33MHz 68882 FPU + CRYSTAL	£ 99.00
40MHz 68882 FPU + CRYSTAL	£129.00

CD32 CONSOLE

This machine represents the future in home entertainment and video game play. A self-contained CD console which you can expand into a full CD based home computer. CD32 comes complete with two stunning AGA games.

ALL FOR JUST £279

We offer a full fitting, installation and advice service to anybody interested in upgrading or adding a Hard Drive to ANY system.

A full range of Amiga products are available from our mail order service at:-

SOFTWARE DEMON Ltd.
(0736) 331039

AMIGA insight

Expert views on the latest applications

ARexx
Alex Gian concludes his two-part insight into methods to use when you're wishing to construct your own ARexx interfaces 156

Video
A tape is a tape – or is it? Adam Phillips takes a closer look at the different formats available and why we need them 159

Music
Now it's possible to keep your music perfectly in sync, thanks to some timely Midi help from Paul Overaa 161

Comms
Comms buff Phil South returns to the encryption program PGP, and its current legal problems in the States 163

Amos
Phil South looks at the new SpriteX v3.0 from Shadow Software, which looks destined to help Amos users everywhere! 165

Publishing
A picture can paint a thousands words, but it can be them too. Confused? Ben Painter verbalises his way back to clarity 167

In the last issue we began our look at the main elements of ARexx inter-process communication. Continuing this overview, we will use a simple demonstration program to show how messages are received at ports, how they are decoded, and how results are returned to the caller when the messages are "replied" to.

The demo program is not in C, Assembler, or Basic, but in ARexx itself, so that it can be understood by all readers; the principles involved can then be adapted to the programming language of your own choice.

The slight bias towards C is due to Amiga OS realities – the basic principles apply equally to any language that allows the use of Amiga shared libraries.

Almost all ARexx activity in the Amiga system shares a common feature – the sending of an ARexx message (called a RexxMsg structure) to an Amiga port, and the processing of that message.

This applies not only when you are actually sending commands to ARexx-compatible applications, but also when you launch an ARexx program, or perform any other ARexx system activity, eg open the trace console or launch a function host.

To build a program with an ARexx interface at the most basic level, all we have to do is to provide it with a port and a set of meaningful commands that it can process and act on.

The structure of the messages, as well as the ports, is always the same, regardless of the actual operations they perform. In this respect, the ARexx interface is rather consistent and easy to program. The differences lie in the contents of the messages.

The structure of the RexxMsg was introduced in the last issue. Since we can only the give the broadest descriptions here, you should also obtain some other form of documentation describing the system structures; if you have nothing else, the Commodore "include" files contain all this information.

Of the 128 bytes of the RexxMsg , the structure in the first 20 bytes (rm_node) identifies it as a valid Amiga Exec message. The next two fields are four-byte Amiga pointers (APTR). Neither of them concern us yet.

The next four fields, rm_Action, rm_Result1, rm_Result2 and rm_Args, are probably the most important from the communications point of view.

The first three are of type LONG which simply means four bytes each. The rm_Args field has slots for 16 pointers to strings of characters in memory that must end with a 00 byte. This is a C convention. Each of these pointers is also four bytes long. In certain cases (when a message needs to return a result in a string) rm_Result2 may contain a pointer to a string (STRPTR) instead of a long value.

The rm_Action field is the most important when we want to identify an incoming message. This will inform us what exactly the message is supposed to do. In our simple example today, we take it for granted that any messages sent to our demo host will be commands, so we do not check for this.

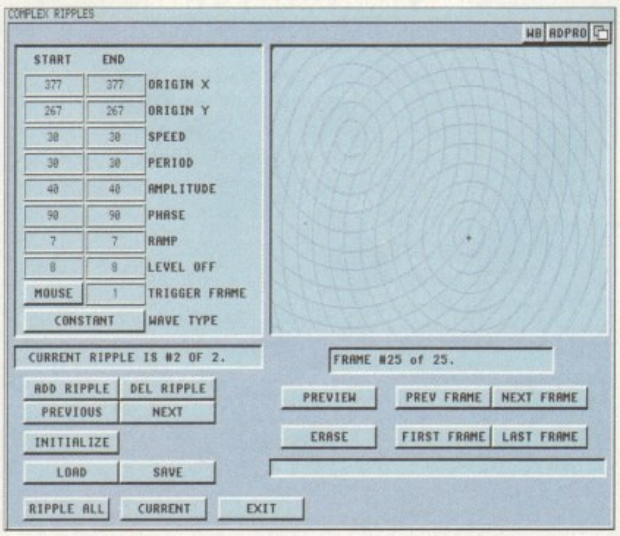
In later versions we will use this field to check whether incoming messages are commands or functions, and also to send special requests to ARexx itself.

However, in addition to telling us about the message, the rm_Action field also gives us some additional information through so-called modifier bits.

In our example we check whether bit 17 of this field is set, which would indicate that a result is needed. ARexx sets this bit automatically on all outgoing commands if the OPTIONS RESULTS instruction is used in the program. The result is then be placed in the special ARexx variable RESULT.

So far this is all quite straightforward, but now we come to the one area that might cause some confusion initially. You probably already know that ARexx strings have some limits – for instance, they may not be more than 64k long.

These limits are imposed because of certain properties that the strings need to have in order to be managed efficiently by ARexx. All ARexx strings, including those that are used as arguments or results in ARexx messages have a special structure,



Caption and grab required

Simpler macros

Our program combines a number of techniques with which we are already familiar, along with some new ones that show how the messages are passed around. I must stress once again that it is simply a demo of a command host.

It is unlikely that you would ever write an ARexx program to return values as a command host, simply because you can get exactly the same effect with a much simpler macro.

You would write it as a command host in another language, though, so ARexx is a convenient language-independent presentation medium. Another reason is that the functions of the rexxsupport.library (part of the ARexx distribution) handle a lot of the drudge work involved in opening ports ans so on.

For a beginner, this code would obscure the main point of what we are trying to do. Once you have understood the central issues you can take care of the details involved yourself, or, even better, use one of the several PD utilities that simplify ARexx interface creation (much like we are doing with rexxsupport.library here).

Therefore be sure that you have it installed with the rxlib rexxsupport.library 0 -30 0 command, preferably in your user-startup.

called the RexxArg. This is the second structure you need to be aware of when building ARexx interfaces.

The RexxArg is composed of four fields totalling eight bytes containing information about its size and other ARexx-specific stuff, followed by a variable length buffer where the actual string is stored.

Yet when you look at the argument slots in the RexxMsg structure, all you see are pointers to bog-standard null-terminated C strings. So where is the rest of the RexxArg structure? Well, by definition a pointer to RexxArg points to the beginning of the string buffer, and all the rest of the information is at a negative offset from this pointer!

This means that apart from its ARexx bits, a RexxArg string appears to the system just like a regular string, and yet it has these hidden "extra bits" that allow it be managed by ARexx.

You can well imagine that this setup invites several memory-management pitfalls, which could easily corrupt the Amiga's memory and make it crash if they are not handled with care.

However, things are not that bad. ARexx itself, in the form of the rexxsyslib.library, provides two functions which create and delete RexxArg strings easily and safely. Use them to create the strings when you need them, delete them when you are finished, and let the ARexx system worry about the details.

In most other respects, the pointer that is returned from the use the functions CreateArgstring() and DeleteArgstring() from the ARexx interpreter (rexxsyslib.library).

We are also going to use some functions from the Exec.library to replace some of their counterparts in rexxsupport.library that do not allow us as much flexibility as we need.

However, both of the above mentioned libraries are standard Amiga libraries, that is, they do not have the special ARexx hook necessary in order to be used from within ARexx.

In order to be able to use them we will need yet another special ARexx library, called rxgen.library, and whose job it is to allow ARexx to use non-ARexx Amiga libraries!

This library is available on Fred Fish disk 459, and you will not be able to run our program without it.

Interfaced!

Alex Gian concludes his two-part insight into constructing your own ARexx interfaces

functions will behave exactly like a string. The inverse, of course, is not true, and if you try to delete a non-RexxArg string with a library function you will probably cause an immediate crash.

Our program is a simple command host. It opens a port called MYPORT and recognises three commands. The command HELLO returns a result that contains a greeting and the current time, the command SUMSQ takes two numerical arguments and returns the sum of their squares, and the command BYE shuts everything down. Any other commands are simply ignored.

To use the program, you launch it from one Shell window, and you invoke it from another ARexx program launched from a second Shell, eg:

```
rx "OPTIONS RESULTS; ADDRESS 'MYPORT' 'HELLO'; SAY RESULT"
```

In order to create the RexxArgs for our results, we are going to Make sure it is installed in the same manner as rexxsupport.library. Basically rxgen uses information about the offsets and register use of the non-ARexx library functions to link them in to ARexx.

The main reason that we replace the functions of the

```
waitpkt(portname) -> packet=getpkt(portname) -> .... -> reply(packet,0)
```

loop with their Exec equivalents, is that the reply() function clears the secondary result field (rm_Result2). As such, it is useless for returning a result which we may want to set ourselves. Because these functions work together, maintaining an internal system record, they have to be used together.

Therefore if we replace reply() we must also replace getpkt(). Furthermore, the Exec functions take the port address rather than name as argument, so we need the FindPort() function too.

It is however acceptable and convenient to use the rexxsupport OpenPort() and ClosePort() functions, as well as the GetArg() function which returns the string in the first of the 16 argument fields – this is the actual command received.

One of the good things about the rexxsupport.library is that it checks to make sure that everything it uses is opened and shut properly. So if an ARexx program receives an external HALT command, it will ensure that all ports shut down properly.

When using the Exec.library all these niceties are your own responsibility, and a real program would require error handling code. Again this highlights the advantage of using support libraries, especially if you like doing things the easy way.

Rexxsupport also provides the very useful Next() and Offset() functions. The former is a bit like peek(), and the later adds offsets to addresses, but all returned values are four-byte strings, and so can serve as APTRs!

● *More of our interface overview next time.*

Flawed example

I must apologise for a small error that got past me in the example program on the CoverDisk. In line 70, in the section marked "/*In place of error code*/", we create a RexxArgstring that is not passed on to the calling program!

As the program stands, this RexxArg will not be deleted if a result has been requested – this could lead to problems, or at least to memory not being freed.

We must either not create the string at all, or else return it as the result in place of the current dummy '00000011'x error code. Sorry about that.

Of course a result (RexxArg) that gets returned becomes the property of the calling program and is automatically deleted by it.

WAITED A LONG TIME? CHARGED ON YOUR CREDIT CARD & STILL NO SOFTWARE?
THESE PROBLEMS DO NOT HAPPEN AT RUBYSOFT.
WE HAVE NEVER IN 3 YEARS DEBITED A CREDIT CARD AND NOT SUPPLIED THE GOODS.

RUBYSOFT (UK) LTD

☎ 071 381 8998 071 610 1703 ☎

RUBYSOFT (UK) LTD, (Dept AMC), 96 Lillie Road, London, SW6 7SR. England.

Some shop prices will differ.

RUBY CHARTBUSTERS

	ST	AMIGA
K240 (UTOPIA 2)	N/A	TBA
A TRAIN	N/A	12.99
A TRAIN CONSTR KIT	N/A	13.99
A 320 AIRBUS APPROACH TRAINER*	25.55	25.55
ALIEN 3	N/A	20.95
ALIEN BREED 92	N/A	9.95
ALIEN BREED 2	N/A	16.95
ALIEN BREED 2 A1200	N/A	19.95
ALFRED CHICKEN	N/A	17.95
ALFRED CHICKEN A1200	N/A	17.95
AMBERMOON*	TBA	17.95
AMBERSTAR 94 VER REWRITE	N/A	17.99
ANOTHER WORLD	11.99	11.99
APOCALYPSE*	19.95	19.95
ARCADE POOL TEAM 17*	N/A	8.99
ASSASSIN SPECIAL EDITION	N/A	9.99
BATTLE ISLE 2*	PHONE	PHONE
BATTLE TOADS*	17.95	17.95
BENEATH A STEEL SKY*	N/A	22.95
BIRDS OF PREY	N/A	11.99
BLACKCRYPT	N/A	10.99
BENEFACTOR*	N/A	17.99
BLADE OF DESTINY	N/A	28.95
BOBS BAD DAY	N/A	17.95
BODY BLOWS GALACTIC A1200 WITH APACHE	N/A	19.99
BODY BLOWS GALACTIC A600/800 WITH APACHE	N/A	19.99
BRIAN THE LION*	N/A	19.99
BRUTAL SPORTS FOOTBALL	N/A	17.95
BUBBA N STIX	N/A	17.95
BULLYS SPORTING DARTS	6.99	6.99
CAMPAIGN 2	N/A	22.99
CANNON FODDER*	20.99	20.99
CASTLES 2* A1200 ONLY	N/A	22.95
CHAMPIONSHIP MANAGER '93 1 MEG	17.95	17.95
CHAMPIONSHIP MANAGER '94 DATA DISK	8.95	8.95
CHAMPIONSHIP MANAGER '93 + '94 DOUBLE PACK	18.99	18.99
CHAOS ENGINE A1200	N/A	17.95
CIVILISATION 1 MEG	22.55	22.55
CIVILISATION A1200 VERSION	N/A	22.99
CLIFFHANGER*	N/A	19.99
COMBAT AIR PATROL	*19.95	19.95
CYBERSPACE*	N/A	22.99
DAILY DOUBLE HORSE RACING	N/A	9.99
DALEK ATTACK 30th ANI*	N/A	16.99
DESERT STRIKE	N/A	19.99
DETROIT*	N/A	TBA
DEEPCORE	N/A	17.99
DIGGERS A1200 ONLY	N/A	22.95
DIZZY YOLKFOLK	6.99	6.99
DISPOSABLE HERO	N/A	17.95
DRACULA*	N/A	19.95
DUNE 2	N/A	19.95
ELITE 2 (FRONTIER)	19.99	19.99
EUROPEAN CHAMPIONS*	17.95	17.95
EYE OF THE BEHOLDER	N/A	11.99
EYE OF THE BEHOLDER HINT BOOK	N/A	9.99
F1 (ALA VROOM NOW 2 PLAYER)	17.95	17.95
F15 STRIKE EAGLE 2	14.99	14.99
F17 CHALLENGE	N/A	10.99
F19 STEALTH FIGHTER	14.99	14.99
F117A	TBA	22.99
FALCON 3*	22.95	22.95
FATMAN A1200 OR A500	N/A	17.95
FIELDS OF GLORY*	N/A	22.95
FLASHBACK (ANOTHER WORLD 2)	N/A	19.99
FURY OF FURRIES	N/A	19.99
GENESIA	N/A	20.99
GOAL	17.95	14.95
GOBLINS 3*	N/A	22.99
GOOCHES WORLD CLASS CRICKET 1 MEG	19.95	19.95
GOOCHES SECOND INNINGS DATA DISK*	14.99	14.99
GUNSHIP	10.99	10.99
GUNSHIP 2000 *	22.95	22.95
HARD DRIVING 2	7.99	7.99
HERO QUEST	7.99	7.99
HERO QUEST 2 LEGACY OF SORASIL*	TBA	TBA
HISTORYLINE 1914-1918	N/A	24.95
HOYLES BOOK OF GAMES VOL 1	N/A	10.99
HOYLES BOOK OF GAMES VOL 2	10.99	10.99
INDIANA JONES FATE OF ATLANTIS ADV	N/A	25.95
INDIANA JONES FATE OF ATLANTIS ARCADE	17.95	17.95
INNOCENT UNTIL CAUGHT	N/A	23.99
JAGUAR XJ220	N/A	8.99
JAMES POND 2 ROBOCOD	7.99	7.99
JAMES POND 2 ROBOCOD A1200	N/A	7.99
JOHN MADDEN A/FOOTBALL	N/A	10.99
JURASSIC PARK A500	N/A	17.99
JURASSIC PARK A1200	N/A	18.99
KICK OFF 3*	TBA	TBA
KING MAKER	29.99	29.99
KINGS QUEST 2	10.99	10.99
KINGS QUEST 6*	N/A	25.99
KINGS TABLE/LEGEND OF RAGNAROK	N/A	19.99
LAST ACTION HERO*	N/A	19.99
LEISURE SUIT LARRY 2	11.99	11.99
LEMMINGS DOUBLE LEMMINGS/OH NO MORE	21.95	21.95
LEMMINGS 2 THE TRIBES 1 MEG	19.95	19.95
LEMMINGS 1 PLUS 2 DOUBLE	TBA	TBA
LEMMINGS BOOK TIPS ETC. PLUS FREE DISK	N/A	22.95
LIBERATION CAPTIVE 2 1.3 MEG REQ.	N/A	20.99
LOOM	11.99	11.99
LORD OF THE RINGS 2*	N/A	19.95
LOST TREASURES OF INFOCOM TEXT ONLY	N/A	24.50
MAGIC LAND DIZZY	6.99	6.99
MANCHESTER UNITED EUROPE	7.99	7.99
MANCHESTER UNITED PREM LEAGUE*	TBA	TBA
MANIAC MANSIONS	10.99	10.99
MAELSTROM*	N/A	25.99
MEGA TWINS	7.99	7.99
MICROMACHINES	N/A	17.95
MICROPROSE GRAND PRIX	22.95	22.95
MICROPROSE GOLF	22.95	22.95
MIDWINTER 2	12.99	12.99
MIG 29 FULCRUM	10.99	10.99
MONKEY ISLAND 1	12.99	12.99
MONKEY ISLAND 2 1 MEG	N/A	23.95
MONOPOLY*	N/A	18.95
MORPH A1200 VERSION	N/A	19.95
MORTAL KOMBAT	N/A	19.99
NASCAR	N/A	6.99
NICK FALDOS CHAMP GOLF*	22.95	22.95
NIGHTSHIFT	11.99	11.99
OPERATION STEALTH	11.99	11.99
OSCAR A500	N/A	17.95
OSCAR A1200	N/A	17.95
PERIHELION*	N/A	19.99
PINBALL FANTASIES A1200	N/A	19.95
PINBALL DOUBLE PACK DREAMS/FANTASIES	N/A	22.99
PIRATES	10.99	10.99
POLICE QUEST 1	12.99	12.99
POWERMONGER & WW1	12.99	12.99
PREMIER	N/A	8.99
PREMIER MANAGER 1 MEG ST 1/2 MEG	17.95	17.95
PREMIER MANAGER 2 1 MEG *	17.95	17.95
PRINCE OF PERSIA	6.99	6.99
PROJECT X	N/A	9.99
PUGGSY	N/A	19.99
PUTTY	N/A	7.99
RBI 2	6.99	6.99
RAILROAD TYCOON	N/A	12.99
RISE OF THE ROBOTS* A1200 ONLY	N/A	PHONE
RULES OF ENGAGEMENT 2	N/A	29.99
RYDER CUP A500/600*	N/A	17.99
RYDER CUP A1200 ONLY	N/A	17.99
SCRABBLE NEW	18.95	18.95
SEEK AND DESTROY	N/A	14.99
SECOND SAMURAI	N/A	20.99
SECOND SAMURAI A1200 VER	N/A	20.99
SENSIBLE WORLD OF SOCCER*	TBA	TBA
SEVENTH SWORD OF MENDOR*	N/A	17.99
SILENT SERVICE 2	N/A	12.99
SIM CITY/LEMMINGS	N/A	20.99
SIM CITY DELUXE Great price!	N/A	19.99
SIM EARTH	N/A	16.99
SIM LIFE A500 OR A1200V VERSION 1.5MEG REQ.	N/A	24.99
SIMON THE SORCERER	N/A	22.99
SIMON THE SORCERER A1200 VERSION	N/A	25.99
SKIDMARKS GREAT GAME!!	N/A	17.99
SOCCER KID A500/A1200 VER	TBA	16.99
SPACECRUSADE	8.99	8.99
SPACE HULK	N/A	22.99
SPEEDBALL 2	8.99	8.99
STARDUST	N/A	12.99
STAR TREK 25TH ANNIVERSARY A1200 HD ONLY	N/A	22.99
STREETFIGHTER 2	11.95	11.95
SUPER SPACE INVADERS	7.99	7.99
SUPER SPORT CHALLENGE*	TBA	17.99
SUPER TETRIS	N/A	19.99
SYNDICATE	N/A	22.99
SYNDICATE DATA DISK*	N/A	PHONE
TFX A1200*	N/A	22.99
TERMINATOR 2 ARCADE	N/A	20.99
THE BLUE AND THE GRAY	N/A	22.99
THE HUMANS 2*	N/A	PHONE
THE SETTLERS	N/A	22.99
THEATRE OF DEATH	N/A	13.99
THOMAS TANK ENGINE 2	11.99	11.99
THUNDERHAWK	N/A	8.99
TORNADO*	22.99	22.99
TRIVIAL PURSUIT	6.99	6.99
TROLLS A1200 VERSION	N/A	8.99
TROLLS	N/A	8.99
TURRICAN 3 A1200*	N/A	16.99
TURRICAN 3 A500	N/A	17.99
TWILIGHT 2000*	N/A	25.99
UNIVERSE*	N/A	PHONE
URIDIUM 2	TBA	17.99
UTOPIA	7.99	7.99
UTOPIA 2*	TBA	17.99
WAR IN THE GULF	22.95	22.95
WHEN TWO WORLDS WAR	N/A	26.99
WINTER OLYMPICS	N/A	22.99
WIZKID	11.99	11.99
WIZ N LIZ	N/A	20.99
WORLDS OF LEGEND (LEGEND 2)	TBA	17.95
WORLDS AT WAR	N/A	6.99
ZOOL A1200	N/A	17.95
ZOOL 2 A1200*	N/A	17.95
ZOOL 2 A500/600*	17.95	17.95

*PLEASE NOTE: TITLES ASTERISKED MAY NOT BE RELEASED AT PRESS DATE BUT WILL BE DESPATCHED WITHIN 24 HOURS OF RELEASE SUBJECT TO AVAILABILITY. PLEASE TELEPHONE TO CHECK PLEASE TELEPHONE FOR ANY TITLES NOT SHOWN AS WE CANNOT SHOW ALL TITLES AVAILABLE. ALL TITLES CAN BE PUT ON BACK ORDER. REMEMBER, WE HAVE NEVER DEBITED A CREDIT CARD YET FOR GOODS NOT SENT.

*NEXT DAY GUARANTEED DELIVERY AVAILABLE ONLY £5.00 PLUS 1ST CLASS POSTAGE RATE

PC AND SEGA GAMES ALSO SUPPLIED

HARDWARE

THE G FORCE YOKE NEEDS AMIGA ADAPTOR	49.50
THE GRAVIS AMIGA PAD	17.99
THE LOGIC 3 LOGIPAD AMIGA	15.99
THE BUG	12.99
CRUISER (BLACK) OR COLOURED	9.99
CRUISER AUTO FIRE NEW	12.99
NAVIGATOR	12.50
SPEEDKING AUTOFIRE	10.50
ZIP STICK SUPER PRO	12.50
FREE WHEEL STEERING WHEEL DIGI	25.99
FREE WHEEL STEERING WHEEL ANA	35.99
SPEEDKING ANALOGUE AMIGA	12.99
QUICKSHOT INTRUDER 1	22.99
QUICKSHOT MAVERICK 1M GOOD CONTROLLER	12.99
QUICKSHOT MAVERICK 3 MEGA DRIVE	13.99
QUICKJOY TOPSTAR SV127 TOP RATE!!	20.50
QUICKJOY FOOTPEDAL	20.99
MOUSE ST/AMIGA GOOD REPLACEMENT	13.99
1 MEG UPGRADE AMIGA A600	49.98
1 MEG UPGRADE AMIGA A500+	46.99
512K UPGRADE A500 WITH CLOCK	26.99
512K UPGRADE A500 NO CLOCK	23.99
80 CAPACITY DISK BOX	9.50
DUST COVER 8833 MK 1&2 MONITOR	6.99
DUST COVER AMIGA 500 OR 600 OR 1200	4.99
TECNOPLUS POWER SOUND 1 OR 2 M/M SPEAKERS	14.99
ZYDECK SPEAKERS 8 WATT RMS	39.99
LEAD AMIGA TO ESCART TV	8.99
LEAD TWIN EXT JISTICK / MOUSE	8.99
LEAD EXT JISTICK OR MOUSE	6.99
LEAD AMIGA TO PHILIPS MK2	8.99
LEAD NULL MODEM FOR HEAD TO HEADS	8.99
LEAD MULTIPLAYER	8.99
AMIGA ADAPTOR PC ANALOGUE FOR PC STICKS	5.99

PLEASE NOTE £1.50 P&P ON ALL JOYSTICKS. SPEAKERS £3.00

COMPILATIONS

AWARD WINNERS 2
ZOOL 1, SENSIBLE SOCCER, JIMMY WHITE'S SNOOKER AND ELITE. GREAT COMP
ONLY £20.99 AMIGA ONLY A1200 OK

SOCCER MANIA
FOOTBALL MANAGER 2, GAZZAS SOCCER, MICROPROSE SOCCER AND FOOTBALL MANAGER 2 WORLD CUP EDITION AMIGA 500 1.2 1.3 NOT PLUS. MAY WORK ON SOME MACHINES WITH KS 1.3
OUR PRICE ALL FOUR GAMES
ONLY £10.95

EXCELLENT GAMES
MCLEANS POOL, SHUTTLE, JAMES POND 2 AND POPULOUS 2. GOOD COMP OUR PRICE
ONLY £24.99 AMIGA ONLY A1200 OK

TRIPLE PACK 1
DEUTROUS, BATTLE VALLEY AND HAMMERBOY
ONLY £10.99
AMIGA ONLY + OK – FIRST TIME THAT DEUTROUS HAS WORKED ON THE AMIGA + !!

TRIPLE PACK 2
HUNTER, SECONDS OUT
BOXING AND LANCASTER
ONLY £10.99 AMIGA ONLY + OK

TRIPLE PACK 3
TITUS THE FOX, GHOSTBUSTERS 2 AND TARGHAN
AMIGA ONLY £10.99 + OK

TRIPLE PACK 4
THE BLUES BROTHERS, MAYA AND SATAN
AMIGA ONLY £10.99 + OK

TRIPLE PACK 5
CRAZY CARS 3, GRAND PRIX MASTER AND BATTLETECH
AMIGA ONLY £10.99 + OK

10 INTELLIGENT STRAT GAMES
CHESS, OTHELLO, GOMOKU, DRAUGHTS, GO, BACKGAMMON, BRIDGE, RENJU, 4 IN LINE AND CHINESE CHESS.
OUR PRICE £20.99 AMIGA ONLY

HOYLES BOOK OF GAMES VOL 1
CONTAINS 6 FAVOURITE CARD GAMES INC. SOLITAIRE, GIN RUMMY, CRAZY EIGHTS, OLD MAID, CRIBBAGE AND HEARTS.
OUR PRICE ONLY £10.99

CD 32 TITLES

ALFRED CHICKEN	17.99
ALIEN BREED PLUS QWAK	16.99
ARABIAN KNIGHTS	13.99
BUBBA & STIX	19.99
D'GENERATION	17.99
DEEP CORE	17.99
DISPOSABLE HERO	19.99
DONK*	19.99
CASTLES 2	19.99
CHAOS ENGINE*	24.99
CHUCKROCK	11.99
DENNIS	17.99
ELITE 2*	TBA
F17 CHALLENGE*	13.99
FIREFORCE	19.99
INT KARATE PLUS	13.99
JAMES POND 2	24.99
JURASSIC PARK*	19.99
K 240 NON AGA*	20.99
LIBERATION CAPTIVE 2	24.99
LIONHEART*	14.99
LOTUS TURBO TRILOGY*	19.99
MEAN ARENAS	24.99
MICROCOSM*	32.99
MORPH	19.99
NICK FALDOS GOLF	24.99
NIGEL MANSELL	19.99
NO SECOND PRIZE*	14.99
PINBALL FANTASIES	23.99
PIRATES GOLD	19.99
PROJECT X PLUS F17 CHALLENGE	16.99
QWAK*	13.99
RISE OF THE ROBOTS*	TBA
SEEK AND DESTROY	17.99
SENSIBLE SOCCER	17.99
SUMMER OLYMPIX	13.99
SUPER PUTTY	13.99
SURF NINJAS*	19.99
TFX*	24.99
TRIVIAL PURSUIT	19.99
TROLLS	19.99
WHALES VOYAGE	19.99
ZOOL (AGA)	19.99
CD 32 MACHINES AVAILABLE	299.99
FMV ADAPTOR	199.99

VERY GOOD PRICES FOR CD32 TITLES CHEAPEST AROUND!!
MANY MORE TITLES DUE PLEASE PHONE FOR DETAILS

RUBY SERIOUS/EDUCATIONAL

	ST	AMIGA
ADI ENGLISH 11/12-12/13-13/14-14/15 EA	17.50	17.50
ADI MATHS 11/12-12/13-13/14-14/15 EA	17.50	17.50
ADI JUNIOR READING 4/5-6/7 EA	N/A	14.99
ADI JUNIOR COUNTING 4/5-6/7 EA	N/A	14.99
ADI FRENCH 11/12-12/13-13/14-14/15 EA	17.50	17.50
EASY AMOS	N/A	22.95
AMOS PRO COMPILER	N/A	22.99
AMOS PRO *NEW PRICE*	N/A	31.99
DELUXE PAINT 4	N/A	55.50
DELUXE PAINT 4 AA 1200 VERSION	N/A	60.50
FUN SCHOOL 4 (UNDER 5)	16.99	16.99
FUN SCHOOL 4 (5-7)	16.99	16.99
FUN SCHOOL 4 (7-11)	16.99	16.99
FUN SCHOOL SPECIAL PAINT & CREATE 5-11	N/A	16.99
FUN SCHOOL SPECIAL SPELLING FAIR 7-13	N/A	16.99
FUN SCHOOL SPECIAL MERLINS MATHS 7-11	N/A	16.99
KIX PIX	N/A	16.99
MAVIS BEACON VERSION 2 ALL AGES	N/A	19.50
MINI OFFICE	N/A	39.95
NODDYS BIG ADVENTURE 3+	N/A	16.99
NODDYS PLAYTIME 3+	16.99	16.99
OFFICE GOLD V3 AGA	N/A	55.99
SCALA 500	N/A	74.95
SCALA PRO	N/A	179.95
WORDWORTH 3	N/A	

CREDIT CARDS DEBITED ONLY ON DAY OF DESPATCH.

Please charge my Access/Visa No: ..... Valid from: ..... Expiry date.....

ORDER FORM

Please supply me with the following for Computer .....

Titles	Price
P&P	
TOTAL	

Date .....
Name .....
Address .....
.....
.....
.....Postcode.....
Tel .....

Business hours 10am - 5pm Monday to Saturday After hours + Sundays Ansaphone order hotline: 071 381 8998

NEXT DAY GUARANTEED DELIVERY AVAILABLE, ONLY £5.00 PLUS 1ST CLASS POSTAGE RATE.

Please make cheques & PO payable to **RUBYSOFT (UK) LTD.**
Credit card orders cashed only on despatch.
(Please note we do not make any charge for credit card orders). Please add £1.00 p&p per item. All joysticks £1.00 P&P each, £3.75 per item for all Europe, and all other countries £4.75 per item BFPO please add £1.50 per item.. All prices subject to change or manufacturers price reviews without notice. E&OE. Please note mail order companies may take up to 28 days to deliver goods from receipt of orders, However goods normally despatched within 2 days.
Please allow for cheque clearance.
(Dept AMC MAY 94)

EXPORT ORDERS WELCOME

From home video to television

A tape is a tape – or is it? Adam Phillips takes a closer look at the different formats available and why we need them

If you've ever tuned into a program about video-making late at night or flicked through the various high street catalogues on camcorders, you'll have noticed the rather large and bewildering amount of tape types on offer – Video 8, VHS, SVHS, Betacam SP... the list stretches to the horizon.

Each format has its different picture qualities and more importantly, price tags. While VHS is an ideal medium to start on because of its cheapness, if you continue making videos, you'll begin to despise the loss in generation quality when you edit with it.

What follows is a rundown of some of the tape formats on offer starting at bargain basement prices and working upwards to the rather expensive, full-blown professional television quality.

VHS and Betamax

When the video standard war started back in the turn of the 80s, VHS and Betamax entered the ring to meet in a battle of marketing over quality.

While Betamax gave a clearer picture, the makers of VHS managed to market their product better, convincing the consumer that their brand was the one to have and the rest, as they say, is ancient history.

A television is made up of a series of lines – 625 to be exact. This in turn is constructed from 312 colour and 312 black lines which are interleaved in each frame, giving you your image.

VHS offers the user between 240 and 260 of theses lines, which as you can tell is not the best-looking ratio in the world.

Despite this, the format is still as popular as ever and used in many home camcorders for taping the odd wedding, christening and funeral – the VHS tape is still one of the cheapest formats on the market with extensive playing times of up to five hours.

Now, with the extended speed found on many VCRs, this time can be doubled to tape an entire Saturday of trashy sports and quiz programmes for your viewing pleasure.

Quality has certainly improved over the last decade but Betamax is still in existence with its own picture and sound quality surpassing VHS but boasting the same time amounts.

SVHS, Video 8 and Hi-8

SVHS was the next step for camcorder users offering a far superior picture and sound quality. In fact, it's reckoned that there is about a 55 to 65 per cent quality increase with the average line reading being 400 – a substantial leap over its forefather.

Video 8 (the eight referring to the size of the tape) was introduced by Sony to be a VHS beater and around the time of its introduction, it certainly came out on top. Since the early 80s though, VHS tape technology has moved on and Video 8 quality is now matched by the latest generation of VHS tapes.

Hi-8 was the next logical step and, like SVHS, can offer a line rate of 400 but unfortunately, this all requires the equipment to run it on which in turn costs you, the consumer, more money.

High and Low Band Umatic

For several years, Umatic was the broadcast standard for television until the relatively recent arrival of Betacam. Its technology is based round those similar to VHS – composite video. Translated in to layman's terms, this means there are three colours (red, green and blue) combined into one signal with the luminance. Luminance is the brightness of the black and white in each frame when mixed to create the final image on the videotape. While Low Band Umatic is cast away from our television screens due to its now unsuitable quality, Hi Band can be shown on TV only if it is a first generation copy (recorded once).

Betacam SP

With its introduction, the top-of-the-range Betacam equipment offered a full 625 lines on-screen giving the best picture so far. By using component video, two channels are available on the tape instead of one as found on VHS.

This allows the image to be broken up into three separate chunks of information and in turn means that the machinery itself has less to deal with at any one time and therefore is more reliable and produces better results.

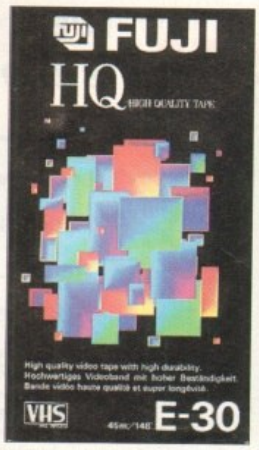
Betacam is TV quality up to the three to four generations, making it the current leader in the professional pack. Well, it was until the arrival of...

D1, D2, M2 & Digital Betacam

Imagine a tape that, like CD, is digitally recorded. Instead of recording an image through analogue recording heads, it is taped in pure binary – 1s and 0s.

This all means that there is hardly any degrading when copying or cutting. The only time when the men in suits at the BBC start to raise a questioning eyebrow is after the 75th generation... that's quite a substantial improvement on all the other tape formats.

● *Thanks to Sony UK, Hamlet's Audio Visual (Macclesfield), ARTTS International, and Bubwith*



From the humble origins of VHS...

... to the latest in tape technology – digital video.

SPOTLIGHT '94

NOVOTEL
HAMMERSMITH
LONDON
28 & 29 MAY
1994

AMIGA & ATARI SHOW

Sponsored by

AMIGA COMPUTING AND GASTEINER

Spotlight '94 will provide visitors with demonstrations of software and hardware configurations and permit them to ask questions about many products directly to experts in the field. The show will also offer a wide range of hardware and software bargains, many items at substantially reduced prices.

Discover the world of Amiga and Atari with the following top name companies:

- Hi-Soft
- Meridian Software
- Weekend Developments
- 16/32
- Power Computing
- Computronics
- Gasteiner
- Marpet
- Antic Systems
- 1st Computer Centre
- Alfa Data (Benelux)
- Golden Image
- Europress Enterprise
- Microvitec
- BSC (Germany)
- Broadfield Computers

TICKETS: £5.00 ON THE DOOR
£3.50 IN ADVANCE

Order your advance tickets on the ticket Hotline or fill in the coupon below

TICKET HOTLINE: 081-345 6573

Novotel Hotel Exhibition Centre
Hammersmith, London
28th & 29th May, 1994
10am – 6pm
is the only place to be!

Send to: GASTEINER
126 Fore Street
Upper Edmonton
London
NX18 2AX

Payment

☐ Cheque/P.O. Credit card: ☐ Access ☐ Visa

No: ____ ____ ____ ____ Expiry date: ____

Date: ____ Signature: .....

I require _____ advance tickets @ £3.50 each

I enclose £ _____

Name _____

Address _____

Using Midi clocks

Keep your music perfectly in sync with some timely Midi help from Paul Overaa

Someone wrote to me the other day saying that they wanted to use their sequencer to record drum patterns stored in a drum machine. Apparently they were having trouble setting the record speed of their Amiga sequencer to the same speed as the drum unit. The result? The attempted recordings of a 24 bar drum part produced sequences which varied from between 23 and 25 bars in length.

This type of problem is common and occurs not just when recording from drum machines but when recording from any external Midi device. Similar sorts of timing problems can occur when you try and link two sequencers together or record complete arrangements from a workstation-type synth.

Fortunately the solution is easy, and it also eliminates altogether the need to adjust the sequencer speed to match that of the external Midi device. The trick is to set up the external device so that it generates Midi clocks and then arrange for the sequencer doing the recording to use those clock messages rather than following its own internal timing clock.

Almost all Amiga sequencers have menu options for using an external clock in this way. Some, such as Dr T's KCS, also provide controls which allow you to choose whether an explicit Midi Start message is needed to make the sequencer begin recording or whether it should start as soon as the first clock is received.

These latter features can be handy when you're dealing with an external Midi device that generates clock data continuously (ie even when a pattern or sequence is not playing). All drum machines incidentally do send explicit Midi start messages when a drum pattern begins.

So to record from a drum machine you'd connect it to the Amiga's Midi interface, load up your sequencer program and select the external clock option (this is sometimes called external sync.)

Set the sequencer to record, choose a drum pattern on the drum machine and hit the start button. You'll find that the sequencer will record the pattern exactly, without any bar length timing problems at all.

Now in case you're wondering how all this works beneath the surface here's a brief run-down on the techie stuff. Midi clocks are single byte Midi messages that have the value decimal 248 (that's F8 hex for any aliens reading).

When you set a sequencer to its external clock option the internal timing mechanism is disabled and attention is focused purely on the incoming Midi data.

The external device will be transmitting clock bytes at the rate of 24 per quarter note and these will be received along with all the other Midi data.

What happens of course is that whenever the sequencer reads one of these clocks it adjusts its bar position counter by 1/24th of a quarter note. By the time 24 have been collected the sequencer will know that one bar of data has been received.

When you record data in this way the absolute tempo of the external device doesn't really matter. If you double the playing speed you double the number of Midi clocks sent.

Halve it, and you halve the number of Midi clocks. Either way the sequencer will be able to recognise each bar of music as it arrives and if, say, you play exactly 24 bars of a drum pattern – you will end up recording exactly 24 bars regardless of tempo.

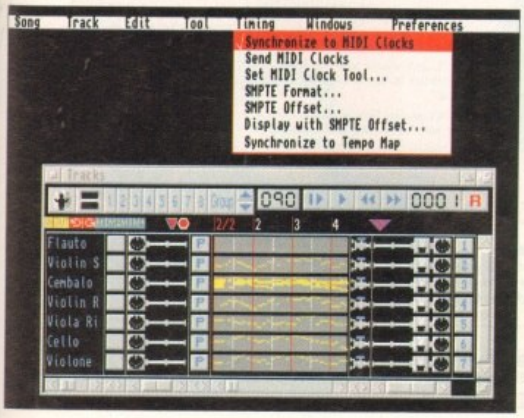
These types of external clock-based Midi links also come in useful on other occasions. You might, for example, have a collection of songs recorded with an old sequencer that didn't provide options for exporting sequences as Midi files.

To move those songs across to a more modern sequencer you just need to borrow another Amiga and link the two machines together. It is probably safest for most people to use a Midi connecting lead and two Midi interfaces, but it can in fact be done by connecting the two machine's serial ports directly using an RS232 cable.

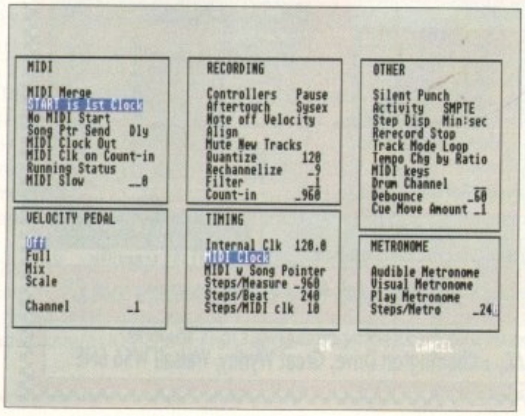
Whichever way you choose to connect up the hardware, here's what you have to do once you've linked the source and destination machines together and loaded the respective sequencer programs: Set the sequencer that is going to play the song sequences to its internal clock option, making sure that it is also set to generate timing clocks at the same time. Then, set the sequencer being used for recording to its external clock option and start it recording.

Nothing will actually happen until the source sequencer is started. This is because the recording sequencer will be waiting for those all-important Midi clocks and these will not appear until the sequencer being used to play the song is actually started.

When you do hit the source sequencer's start button however everything should fall into place. The destination (recording end) sequencer will record and store the original song material, bar for bar, and there won't be a bar timing glitch in sight!



Bars & Pipes, like most Amiga sequencers, provides a variety of timing options



Dr T's KCS sequencer has many options including for waiting for real Midi start messages or starting on the first received clock

PATHFINDER PD

0274 565205 (9.30am to 5.30pm)

(AC), 41 Marion Street, Bingley, West Yorkshire BD16 4NQ

Don't let our small advert deceive you! We are now in our third year of trading & have over 6,000 programs in stock. Why not send a stamp for our

FREE DISK CATALOGUE

(One per customer)

listing all our titles (including Fish 1-950 – Assassins 1-151) & A1200 compatibility

SPECIAL VALUE PACKS

A1200 GAMES PACK - 6 disks **Only £5.95** (post & packing inc.) Contains – Motorola Invaders 2, Kondike AGA & Tetris AGA. (AA only). Great games with lovely graphics.

AGA DEMO PACK - 6 disks **Only £5.95** (post & packing inc.) Contains – Planet Groove, Mindwarp, French Demo, Kefrens, Panta Rhei & A1200 Intros. An ideal pack to show off your A1200.

Listed below are just a small selection of our most popular titles – Only £1.05 per disk (1-6 disks) or 99p per disk for orders of 7 or more: AA = A1200 O.K. (+) = Plus & 600 O.K.

PS65 – A1200 Manga Pics - (4 disks £4.20) (AA)

PU139 – D-COPY V3.1 - The latest version of this popular disk copier. (+, AA)

PU193 PROCAD ELECTRONIC – (Circuit & PCB designer) (+,AA)

PU180 – TEXT ENGINE V4.1 – W/P (+, AA)

PG187 – ALIEN BASH – shoot 'em up (+, AA)

PG211 – THE LAST REFUGE – Space invaders – medieval style (+, AA)

PD131 – ORIGIN DEMO – (2 disks - £2.10) (AA only)

PG209 – ROBOUDIX – Boulderdash style (+, AA)

PG213 – ROAD TO HELL – Car Racing (+, AA)

PG189 – WIBBLE WORLD GIDDY – (+, AA)

PG222 – D-SOLVE CROSSWORD – (+, AA)

PG219 – BLACKDAWN – (+, AA)

PD132 – 9 FINGERS DEMO – wicked! (2 disks £2.10) (+, AA)

ACCESSORIES

50 DSDD Disks – £19.99 50 labels - 80p

Dust Covers (available for A500 & plus, A600 & A1200 - please state) all at £3.99 each.

Mouse Mat £2.99

Disk Drive Cleaning Kit with software £2.99

* WE NOW STOCK – CD32 & PC * SOFTWARE – SEND SAE FOR A LIST

POST & PACKING orders under £6 please add 60p, Special packs & orders over £6 FREE

MICROLAND BULLETIN BOARD SYSTEM

0891 990 505 To Download

0483 725 905 To View

Amiga shareware including files from the Fred Fish Collection plus lots more to download at V32bis, V32, V22bis, V22, V23, & HST etc. 8 data bits, no parity

INTERNET CONNECTED

Microland is connected to the world's largest network. We provide full global mail, news, software archive, and interactive services. Don't miss out, get connected and explore the world of Internet. Download from the biggest archives in the world. Services subject to availability.

Why wait for your software when you can download now direct to your computer. Microland offers high speed connections and most files are compressed to minimise the cost. Check it out on 0483 725 905 at normal call charges. So much shareware you are spoilt for choice.

Calls to 0891 990 505 charged at 39p per minute cheap rate, 49p per minute all other times. Trevan Designs Ltd. PO Box 13. Aldershot, Hants. GU12 6YX.

EXCLUSIVE PD

THE FRIENDLY PD SERVICE FOR ALL AMIGA USERS – SOMETHING FOR EVERYONE

7 Beresford Close, Waterlooville, Hampshire PO7 5UN Tel: (0705) 642409

Office hours: 10am-7pm Mon-Fri,10am-3pm Sat.

WE STOCK:

- LSD Legal Tools
- Fred Fish
- Panorama
- APDC
- Scope
- Amicus
- Assassins Games
- TBAG
- Disk Magazines:
- Grapevine etc.

Plus a wide variety of software for all Amigas including AGA only software

Catalogue Disk free with your first order

DEMOS	UTILITIES	MUSIC	AGA SLIDESHOWS
Lemon: Rink-A-Dink	Audio Magic #5	Scoopex: 2 Unlimited	Linda Lusardi (2)
Digital: Dream Trippin'	ASI Handy Utils #3	Chubby Brown	SF Beauties 1-14
LSD: Jesus On E's (2)	A1200 Pack (3)	Ebeneezer Goode	24 Bit JPEG Pics
Lemon: Groovy	Text Engine V4.1	Euphoria 1 & 2	Weird Science: Swimsuits 1/2/3
Perspex: Hypnosis (AGA)	Clip Art #12 Yabba Dabba Doo	Good Mornin' Vietnam	Erika Eleniak
Spaceballs: (Fingers (2)	ST-13 Rave Samples	L7: Wargasm (2)	Ferrari Slides
TRSI: Misery	ASI A1200 Fix Disk	Mayday: Resistance	Jurassic Park
Arise: Smells Like Chanel No.5	ASI Video Titlers	ST-Modules #4 808 State	Network 12: Fit Chicks III (2)
Digital: Day of Reckoning	Amiga Fox (DTP)	Stand Up: Jasper Garrot	Network 12 Slides (2)
LSD: Techno Warrior	Font Library	War of the Worlds	NFA: Bodyshop I
Melon: Boco	Printer Drivers A & B	Waynes World (2)	NFA: Bodyshop II (2)
Nerve Axis: Demon's Rage	Powersuits Samples	Intense: Rave Vision	NFA: Bodyshop V (2)
Virtual Dreams: 242 (AGA)	ASI Label Printers	LSD: Total Kaos (2)	NFA: Sharlyn Fenn
LSD: Simply the Best #68	Cheque Book Account	Freddy Krugar Rap	NFA: Claudia Schiffer
Reflex: XS	Octamed Pro	LSD Music Pack (4)	NFA: Telly Pics (2)
Melon: How 2 Skin A Cat	Interpol AGA Games Fixes	Octastuff Music	Weird Science:AGA Pix 1 & 2
Stone Arts: Atmosphere	KickStart 2.0 Emulator	Technological Death	Weird Science: Space

All disks £1 per disk

Postage: UK 50p. Europe add 20p per disk. World add 40p per disk

Cheques payable to Exclusive PD

IF WE HAVEN'T GOT IT ... WE'LL GET IT AT NO EXTRA CHARGE

STILL THE BEST!

COMPUTE-A-RACE+..... £19.99

THE FINAL EDITION

After over 3 years of research and development, **Compute-A-Race – The Final Edition** has been released.

WHAT DOES IT DO?
Compute-A-Race+ is a Horse-Racing Prediction Program written exclusively for the Amiga. The program can predict races, select bets, calculate return and will advise on most aspects of British Horse-Racing.

IS IT COMPLICATED TO USE?
No. Features an ease of use for both the 1st time buyer and more experienced user alike. Within days inputting a race will become second nature.

WILL I NEED REGULAR UPDATES?
No. Re-designed for long-term use, The Final Edition is the ONLY prediction program you will ever need. No further purchase is necessary.

WHEN SHOULD I ORDER COMPUTE-A-RACE+?
NOW. Betting for profit is betting for fun!

COMPUTE-A-RACE+ – THE FINAL EDITION – £19.99
(Master Disk, Data Disk, Manual, Wallet, Labels). As featured in The Sporting Life. **ORDER NOW!**

Cheques/P.O. payable to HANDISOFT (Mail Order ONLY)
Handisoft, 37 Hearsall Lane, Spon End, Coventry, CV5 6HF

AMIVISION SOFTWARE present

FORMULA ONE CHALLENGE v4

An incredibly addictive and detailed formula one simulation for 1-4 players.

Watch the races as they unfold with three levels of highlights. Crashes, spins, pile ups, car failures, stop/go penalties, weather changes, fastest & record laps, make pitstops. Four independent levels of difficulty. Accurate and detailed graphics of the teams, circuits etc.

15 teams, 2 cars per team, 50 drivers with varying skills, complete engine & tyre contracts. Choose tyre compounds, tune your engines, change wing settings, even train your pit crew!

Qualifying, 16 accurate championship circuits, news section, realistic sound fx, load/save games, weather forecasts, statistics saved, latest FISA rules, sponsors, full drivers and constructors championships and so much more.

NEW

Includes latest up to the minute details
NOW WITH FULL 1994 Circuits, drivers, teams, etc.
Incredibly addictive, produced by true formula one fans.
The most realistic formula one management simulation, guaranteed.

Just £14.95! includes instruction manual

Includes full 1994 season details
A1200 compatible

1994 season updater disk for existing owners just £3

PLEASE MAKE CHEQUE/POSTAL ORDER PAYABLE TO:- S. RENNOCKS.

Dept. AC, 1 Cherrington Drive, Great Wyrley, Walsall WS6 6NE

HOW TO MAKE IT WITH GIRLS

Introducing the most powerful system *ever* for being successful with girls! Are you fed up with seeing pretty women walking by and not knowing what to say to them? Do you wish you could walk up to ANY woman you choose and set a date?

Well now you can! "How to make it with girls" is a fantastic new course that will show you everything you need to know to turn you from a shy ordinary guy into a highly successful ladies man – **guaranteed.**

Includes topics such as...

- Opening lines that work like a dream.
- A simple rule that will immediately double your number of dates.
- How to instantly become more "sexy".
- Be confident and at ease in any situation.
- How to get girls to pick you up!
- How plain men can easily get dates with gorgeous girls.
- How to make girls fancy you without even trying.
- How to maintain an amazing and enviable sex life.

...and much, much more.

Everything contained in this course has been proven in real life situations and works like magic. Just listen to what some of our previous customers have to say (copies available on request).

★ "I can't believe how simple but effective your course really is, the information in here is *dynamite*. Girls just love me and I can't do a thing wrong."

★ "It's amazing, I'm now going out with the girl I've always fancied but before now, never dared to ask. Thank you so much."

★ "Before learning your techniques I had tried everything on the market to make me more successful with women – but nothing seemed to work. Now things couldn't be better and I see a different girl every night of the week."

★ SPECIAL OFFER ★
ONLY £12.95 POST FREE

Yes! I want to make it with girls. Please rush me the complete "How to make it with girls" course which includes a dynamic hour long audio tape plus easy to follow guide book. I enclose a postal order/cheque for £12.95.

Name ..... Address .....

..... Postcode .....

Send to **Modern Publications (Dept. G)**, Steeple House, Percy Street, Coventry CV1 3BY
Orders despatched within 7 days under plain cover

Pretty bad privacy

Comms buff Phil South returns to the encryption program PGP, and its current legal problems

The recent past has thrown up some pretty weird subcultures, especially in the world of comms. You know, the kind of groups of people who specialise in one thing or another, and can't talk about anything else. A bit like the father-in-law who comes into your house, walks straight past you and feels the radiators.

One such group in comms is the encryption brigade. They called themselves the cypherpunks – basically cyberpunks who could encrypt their email so it could not be cracked.

You may remember I spoke a while back about a program which could be had in the PD which gave you military standard encryption for your email and files. It was called PGP and the point was that it was launched into the PD so that anyone could have it.

The problem was, and I believe I said as much at the time, that the government of the US is not keen on such encryption being widely available, especially as it has just spend gigabucks developing similar technology.

I inferred in the column that it would be a good idea to get yourself encryption friendly as soon as possible because it would only be a matter of time before the US government, the only world government paranoid enough, would want PGP outlawed. I also said this all might just be paranoid rubbish, and left it at that.

Fast forward to the present, 1994, ten years after Big Brother, and sure enough PGP, and its creator Phil Zimmermann, are on trial.

Zimmermann created PGP in 1991, with a view to distributing industrial-strength encryption to the masses, while personal encryption was still a legal pastime.

Because PGP was released on the Internet on all major platforms, it has very quickly become the cypherpunk's encryption engine of choice. Now it may just be a ruse to clobber this groundbreaking encryption for something, but apparently it's against the law to "export" encryption software without permission, which comes under the heading of the International Traffic in Arms Regulations, or ITAR.

Encryption software is legally classified as a weapon, and exporting it, even electronically it seems, is illegal – what American law calls a "felony" in fact. Other felony crimes include murder and arson.

And so in September of last year US Customs agents subpoenaed the authors of the program, requiring them by law to produce all the relevant materials for an "investigation of illegal exporting of encryption-related materials".

The reason was, of course, that in putting the material on the Internet, Zimmerman and his friends must have known that people from all around the globe could, and in fact would, take the program overseas without permission.

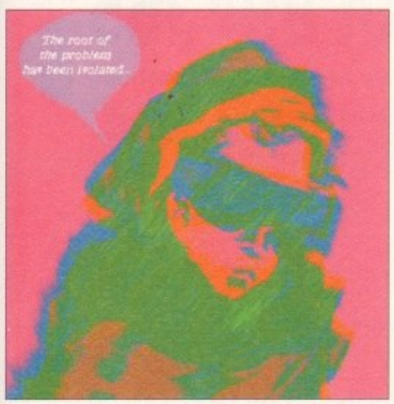
The fact that the code is still where it was put on the original Internet node in the US is by the by. A copy of it, in law the same as a photocopy or published item I suppose, has winged its way beyond the shores of the land of the free, home of the brave... (the word "not!" springs to mind).

Surely in this day and age, when even the Russians are selling military hardware to the West, such measures are outdated – a bit like keeping a law forbidding people to paint slogans on the Berlin wall. All the same, Zimmermann and his chums are in deep doos.

The US government has said that it will not make its Clipper chip the only legal form of encryption, but a cynic would say (and I do) if they hammer PGP enough they will be taking out one of the chip's biggest competitors.

Zimmermann may get off, if indeed he is to be charged, by saying he didn't intend for the program to be copied overseas, and he placed it on the Internet in the US.

Whatever happens either way, it may be the most interesting case of the year as far as the Internet is concerned. Does this mean that the government of the US will want to monitor what goes on through the 'Net? And what will our government want to do about it in light of our special relationship? Only time will tell. If I get wind of a result in this case I'll let you know.



Chinese whispers, picture-style, on the Internet

Internet A to Z

Here are some fun places to visit on the 'Net this month. The Sequoia 2000 project has set up shop at <toe.cs.berkeley.edu> in the pub/sequoia directory.

This is a project which wants to gather and use a lot of ecological and other data about the physical world we live in. A lot of this data is available for you to use (good luck) at the site.

Internet Relay Chat or IRC is a really fun place to be, if a little confusing. CIX has a feed, although I've rarely got it to work on NComm, for some ANSI-type reason.

You can also get to it by using TELNET to 140.117.11.33, and log in as IRC with a password of IRC. But be careful! IRC is about as addictive as Tetris.

OTIS has a little hidden away project which may take your fancy. The pictures (in the CROSSWIRE directory of the OTIS machine) were collaborations carried out by remote control across the 'Net.

The pictures were submitted by one user, then downloaded and modified by another user, then uploaded again, then downloaded and modified by yet another user, and so on.

The results were sometimes a little bit odd, some just plain bad, but most were at the very least quite interesting. Find OTIS on <sunsite.unc.edu> in the pub/multimedia/pictures/OTIS directory under CROSSWIRE.

Write stuff

Write to me Phil South, Comms Column, Amiga Computing, Europa House, Adlington Park, Macclesfield, SK10 4NP. Or how about dropping me some email on:

CIXsnouty@cix.compulink.co.uk
Direct connection
snouty@dircon.co.uk
Compuserve 100102,1500

The Essential Selection

"Top quality guidance for Amiga users"

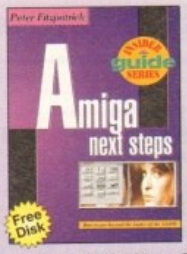
All books are written and produced in Great Britain.

BSB Bruce Smith Books

INSIDER guide SERIES

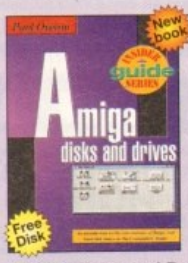
The best-selling guide to Workbench 3.0 and AmigaDOS3 on the A1200. It covers everything from setting up and running programs such as MultiView and ED to using the Shell, AmigaDOS scripts, icons, graphics, printing and SetMap. Discover such new features as the colour wheel, Intellifonts, MSDOS disks with CrossDos and configuring sound.

Amiga A1200 Insider Guide
Bruce Smith, 256 pages, £14.95, ISBN: 1-873308-15-9



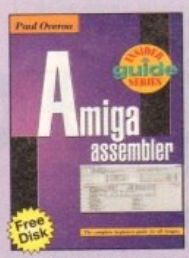
Explore the many possibilities that your A1200 offers and improve your techniques. The *Amiga A1200 Next Steps* explains how to choose, install and manage a hard drive, use MultiView and AmigaDOS and how to best improve storage and display. It introduces video and graphics editing, making music and programming plus much, much more.

Amiga A1200 Next Steps Insider Guide
P. Fitzpatrick, 256 pages, £14.95, ISBN: 1-873308-24-8



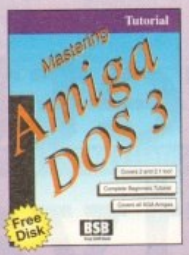
This book teaches you to use and care for all types of disks and drives in order to minimise the risk of problems, get a better understanding of how they work and what to do if things go wrong. Topics include installing software, copying and moving files, encryption and security, disk repair and back-up, formatting and fast filing, floppy, Rad, Ram and CD's.

Amiga Disks and Drives
Paul Overaa, 256 pages, £14.95, ISBN: 1-873308-34-5



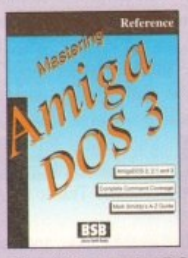
Want to learn Assembly language but don't know your *IntuiMessage* from your *Null terminated string*? Then the *Amiga Assembler Insider Guide* is for you! With easy-to-follow examples and instructions it explains and demystifies the jargon. Applicable to all Amigas, it comes with a *free* disk which includes the PD A68k assembler and programs from the book.

Amiga Assembler Insider Guide
Paul Overaa, 256 pages, £14.95, ISBN: 1-873308-27-2



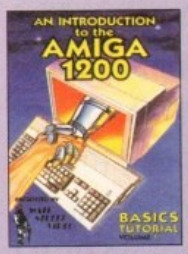
Perhaps *the* most comprehensive introductory tutorial ever written about the Amiga's operating system in a massive 384 pages. If you want to learn about AmigaDOS 2, 2.1 or 3 then this is the book for you. It assumes you know nothing about the subject but – if you follow the step by step exercises – will turn you into an AmigaDOS expert.

Mastering AmigaDOS 3 – Tutorial
Smith & Smiddy, 384 pages, £21.95, ISBN: 1-873308-20-5



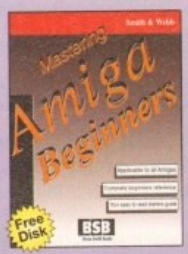
This is *the* full reference guide to the AmigaDOS command set with complete coverage of over 140 AmigaDOS 2, 2.1 and 3 commands. Arranged alphabetically, it includes many worked examples with full command synopsis and templates. Contains details on the Mountlist, AmigaDOS Error Codes, AmigaGuide, the IFF, Commodities, and much more.

Mastering AmigaDOS3 – Reference
Smith & Smiddy, 368 pages, £21.95. ISBN: 1-873308-08-6



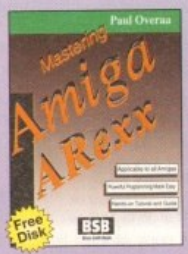
Bruce Smith Books in conjunction with Wall Street Video, Australia's *premier* video training company, proudly presents a one-hour video on setting up and running the Amiga A1200 using Workbench 3. With step by step instructions, picture in picture guides and split screen graphics, learning about the Amiga has never been easier. Don't understand – just hit rewind!

A1200 Introduction Video
Wall Street Video, £14.99, BSBVIDAMI001



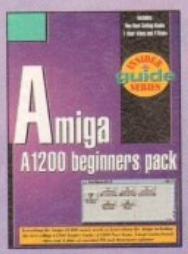
Written with the sole aim of getting you through those soul-searching first months with your Amiga, it doesn't promise to make you an expert in any one topic but will give you the essential foundation stones from which you can progress. Step by step advice on specific subjects is balanced with general advice on all major subjects relevant to the Amiga.

Mastering Amiga Beginners
Smith & Webb, 320 pages, £19.95, ISBN: 1-873308-17-5



The ARexx programming language is assured a bright future as part of Workbench 2 and 3. No harder to learn than BASIC the examples and listings supplied will teach you ARexx from scratch. A complete understanding of the application control advantages of this powerful language can be yours with ease. Also applicable to Workbench 1.2 and 1.3 users.

Mastering Amiga ARexx
Paul Overaa, 336 pages £21.95, ISBN: 1-873308-13-2



Amazing Specification and Outstanding Value! That's the Amiga A1200 Beginners Pack!

Now, for the very first time, you can get the complete beginners package in one bumper-value pack. Sure to be *the* best seller, the *Amiga A1200 Beginners Pack* includes the best-selling *Amiga A1200 Insider Guide*, *Amiga A1200 Next Steps Insider Guide* plus an exclusive 1-hour high-quality video tape on A1200 basics from Wall Street Video. This special value pack also includes four disks of essential PD and Shareware software with specially written book to help get you going. Programs include an easy-to-use database, a wordprocessor, a music editor, a file recovery/virus checker/disk compression package and clip-art selection.

Amiga A1200 Beginners Pack
£39.95 (inc VAT) plus £3 p&p, ISBN: 1-873308-30-2

CREDIT CARD HOTLINE
(0923) 894355
Also available in all good bookshops

Free postage on all books in the UK. Add £3 per book for Europe, £6 per book elsewhere. Add £3 postage on the A1200 Beginners Pack. Disks (where indicated) are free only when purchased direct from BSB.

To order, send cheques/POs made payable to 'Bruce Smith Books Ltd' to: Bruce Smith Books Ltd (AC), FREEPOST 242, PO Box 382, St. Albans, Herts, AL2 3BR.

Name .....

Address .....

.....

.....Postcode .....

Please rush me the following books:

.....@ £.....

.....@ £.....

.....@ £.....

Alternatively charge my Access/Visa/Mastercard No:

Signed ..... Expiry Date: ...../...../.....

Sheer sprite!

Phil South looks at the new SpriteX v3.0 from Shadow Software

After something of a long lay over, Aaron Fothergill has produced SpriteX v3. What happened to SpriteX v2? Well, it mutated into v2.5, and then it got so close to v3 it wasn't worth releasing it until then.

Some things have been added and other things have been made better. The software itself is pretty self explanatory, and comes in two forms on the disk. The first is the more powerful interpreted version for Classic Amos users only.

This version requires both Ctext 2.5 (or above) and v3 or above of the Amos Club/Shuffle Extension (both of which are supplied with Sprite X v3 in extension only form). This version is slightly slower, and takes longer to start up, but allows users to make their own modifications via the User menu. It also allows access to direct mode.

Also on the disk is the faster (but non-editable) compiled version of the program. This is for using the program without any modifications or for Amos Pro users who have no other options (as none of the extensions will be available for Pro).

Before using Sprite X v3, you have to run the Ctext_Shuffle_Install.Amos program supplied to install Shuffle v3.0 and Ctext v2.6 onto your Amos System.

Sprite X v3 has a very simple icon-based menu system, which is based around three icon bars and a simple set of controls. The screen itself is split up into the editing area (with the zoomed and normal views of the image, plus the palette selector) and the menus themselves.

Pressing the spacebar cycles the various screens to the front, The first press will bring the editing area to the front, the second will bring the screen being edited to front, and a third press will bring the menu bars back to the front.

All the screens can be moved up and down if you drag them by the small circular gadgets in the corners (bottom right for all but the Main menu bar).

The mouse can be used for all controls, and most controls have keyboard equivalents. When viewing the full screen, areas can be copied with the right mouse button and pasted with the left mouse button. Blocks grabbed in this way are the same as those grabbed with the CUT function in the tools menu.

Drawing in the zoomed window will directly draw to the selected area of the edited screen. This can be seen in the unzoomed window to the right. Dragging the Edit box around (the area marked within the unzoomed window) allows you to select the area you want to edit.

You can also drag the screen around within the unzoomed window, so that you can work on any part of the screen. This means that you can edit bobs or icons up to 320 x 256 pixels in size, or even touch up screens.

Sprite X v3 is written using Classic Amos (v1.36), using the Shuffle and Ctext extensions. It was written as a pure games writing editor, designed for use alongside your favourite art package.

To this end, it will automatically snooze (with Multi Wait statements) if you use Left Amiga A to flip to the Workbench (or DPaint running from Workbench). If you save your DPaint picture to the RAM: disk with a .IFF or .LBM suffix and return to Sprite X v3 (with Left Amiga-A again), you can press Left Amiga-R and Sprite X v3 will automatically scan the RAM: disk and load in your picture (subsequent Amiga-Rs will load in the next .IFF or .LBM file).

The Autosave files are simply an .IFF picture file and an Amos Multi bank, so a simple:

```
Load "ASbanks.abk"
```

will load them all in. Sprite X v3 can also be called from the Shell or CLI, with screens and banks as parameters, eg:

```
SpriteX3 myscreen.iff,mybank.abk
```

which would load up Myscreen.iff as the edit screen, and mybank.abk as bank 1. Multiple banks can also be loaded, eg:

```
SpriteX3 mybank1.abk,3#mybank2.abk,myscreen.iff
```

adding the 3# in front of the second bank instructs Sprite X v3 to load it into bank 3 (0-9), basically, up to ten banks can be loaded along with an IFF screen in this method.

The rules are very simple, if there is .IFF at the end of the filename it is loaded to the edit screen, and .ABK means it will be loaded to a bank.

If Sprite X detects a file called SX3_startscreen.iff in the directory it is run from, it will load it as the edit screen (if no other screen is selected as a CLI parameter).

A neat feature has been added (shades of Amos Pro's Interface) in that if a file called SX3_UserButtons.abk is found in Sprite X v3's directory then this is loaded as the button screen.

This means you can create your own buttons for the program, and is something which can either add or subtract from the program functionality depending on how good your buttons are!

The compiled version of Sprite X v3 was compiled with the Amos Compiler rather than the Pro Compiler as according to Aaron "the Pro Compiler doesn't tend to be able to cope with anything this size, has bugs, and can't handle Amos extensions." There you have it.

Future updates?

No there won't be an Amos Pro version of Sprite X v3. As soon as Nigel Critten's Amos AGA extension is finished, Aaron will be doing an AGA version of SX3. Other functions to be added will be:

.PCX/.BMP/Pict Load/Save
IFF Anim Brush Load/Save
New Animator and AnimX animation extension for Amos

SpriteX is the very best sprite creation utility around, and if you haven't got a copy you need your head looking at. It costs just £29.99 from your local dealer, or from the new Shadow Software distributor INDI Software, 92 High St, Johnstone, Scotland PA5 8SD.

Write stuff

If you have an Amos question, then please write to Phil South, Amos Column, Amiga Computing, Europa House, Adlington Park, Macclesfield, SK10 4NP.

AMIGA REPAIRS

FIXED CHARGE ONLY £42.99 incl.

FIXED CHARGE INCLUDES PARTS, LABOUR, DELIVERY, VAT
90 DAY WARRANTY ON ALL REPAIRS
24 HOUR TURN-AROUND ON 95% OF REPAIRS
ALL UPGRADES PURCHASED FROM US FITTED FREE WITH REPAIR
INCLUDES REPAIRS TO DRIVE & KEYBOARDS, ADD £10.00
IF NEED REPLACING, FULL DIAGNOSTIC TEST AND SERVICE

Est 12 Years

In Stock SPECIAL OFFERS New Low Price

A500 INT. 3.5" DRIVE *Simple to fit, fully documented*	£38.99	A500 MODULATOR *Exchange repair*	£18.80
A600/1200 INT. 3.5" DRIVE *Simple to fit, fully documented*	£41.90	A500 KEYBOARDS *Factory new, genuine part*	£44.10
KICKSTART 1.3 ROM *For software compatibility*	£25.00	FATTER AGNUS 8372A *1 Meg chipram compatible*	£36.50
KICKSTART 2.05 ROM *Upgrade to A500+ Rom*	£29.90	CIA IC *Printer, serial, drive ports*	£9.20
SUPER DENISE *Excellent value*	£28.70	GARY IC	£11.50
		PAULA IC	£19.95
68000 CPU	£15.00	A500 PSU	£25.00

⚠ ATTENTION ALL DEALERS ⚠
Our company now offer the most competitive dealer repair service.
Full credit facilities available. Send for our Free information pack today…

We reserve the right to refuse repair for whatever reasons. AMC5
Prices only valid with this coupon

Service HOTLINE (0533) 470059
DART Computer Services
105 London Road
LEICESTER LE2 0PF

DART Computer Services

MasterCard VISA

BEST PRICES! **PLANET DATA** BEST SERVICE!

MAIL ORDER DISK SUPPLIERS
WHOLESALE & RETAIL

GRADE 'A' BLANK DISKS

FULLY CERTIFIED, ONE FOR ONE GUARANTEE

DSDD 3.5	DSHD 3.5
250 – £70 + £3 p&p	250 – £106 + £3 p&p
100 – £30 + £3 p&p	100 – £43 + £3 p&p
50 – £17 + £3 p&p	50 – £22 + £3 p&p

Includes *FREE LABELS* & prompt despatch
10 DSDD IN LIBRARY CASE ONLY £4.99 + £1 p&p
10 DSHD IN LIBRARY CASE ONLY £5.99 + £1 p&p
100 CAPACITY LOCKABLE DISK BOX ONLY £3.50 + £2 p&p

14 page brochure available phone for a copy now!!!

PHONE THE PLANET DATA QUOTELINE AND BE AMAZED HOW CHEAPLY WE CAN MEET YOUR BLANK MEDIA NEEDS

Tel: 0234 240954 Fax: 0234 240272
PLEASE MAKE CHEQUES PAYABLE TO:
PLANET DATA
9 High Street South, Olney, Bucks, MK46 4AA

ANALOGIC
ANALOGIC
ANALOGIC

Analogic Computers (UK) Ltd
Unit 6, Ashway Centre,
Elm Crescent
Kingston-Upon-Thames
Surrey KT2 6HH

Telephone Mon-Fri 9am-6.30pm
Sat -9am-5.00pm
081-546 9575
Tel/Fax: 051-541 4671

COMPUTERS AND MONITORS REPAIRS WHILE-U-WAIT!!!

- AMIGA A500/A600 and MONITOR REPAIRS WITHOUT DIAGNOSTIC FEES
- FIXED CHARGES (A500 AND A500+ ONLY)
- FAST TURNAROUND
- MANY COMPUTER REPAIRS DONE WHILE-YOU-WAIT
- WE PROVIDE PICK-UP SERVICE FOR REPAIRS (A500 AND A500+ ONLY) FOR ONLY £5.00 + VAT
- QUOTATION ON A600 AND MONITOR REPAIRS

£49.95 (A500 & A500+ ONLY) including NEXT DAY DELIVERY (If picked up by us) by COURIER SERVICE when dispatched back

PRINTERS

Hewlett Packard HP510 .....279.95
Hewlett Packard HP550 Colour 499.95

FLOPPY DRIVES

1 MEG 3.5" A500 Internal.....44.95
1 MEG 3.5" A600 Internal.....54.95
1 MEG 3.5" A1200 Internal.....54.95

ACCESSORIES

512K RAM A500	19.95	SUPER PRO ZIPSTICK	14.95
512K RAM A500+	19.95	10 BRANDED BLANK DISKS	9.95
1 MEG RAM A500+	34.95	10 UNBRANDED BLANK DISKS	5.95
1 MEG RAM + Clock A600	44.95	MODEM CABLE	9.95
AMIGA 290 DPI Mouse	14.95	PRINTER CABLE	9.95
SCART LEAD	14.95	A1200 RAM	POA
MOUSE MAT	4.95	ACCELERATORS	POA
DUST COVER	4.95		

CHIPS AND SPARES

KICKSTART ROM V1.3	24.95	8375 1 MEG FATTER AGNUS	24.95
KICKSTART ROM V2.04	24.95	8375 2 MEG FATTER AGNUS	29.95
KICKSTART ROM V2.05	34.95	PAULA	19.95
ROM SHARER	14.95	GARY	11.95
A500/A500 + KEYBOARD	64.95	CIA	8.95
A600/A1200 + KEYBOARD	69.95	68000	14.95
AMIGA PSU	44.95	6570 KEYBOARD CHIP	24.95

Access

★ All prices include VAT and SAME DAY DESPATCH subject to availability ★ Fixed charge for repair does not include disk drive replacement nor keyboard
★ All prices subject to change without notice ★ We reserve the right to refuse any computer/monitor repair

VISA

Pictures in words

A picture can paint a thousands words, but it can be them too. Confused? Ben Pointer verbalises his way back to clarity

One of the most dramatic effects you can apply to display headings is to render the letters in the heading as pictures. But the technique needs to be used with caution; it is so very easy to go over the top.

One temptation is to render every letter in the heading as a different picture, and while there may be one or two legitimate uses for this, in general you end up with a heading that cannot be read because of a confusion of images.

A gentler effect would be to combine one word and one picture. Pick the right picture and the right word, and an otherwise weak, one-word heading can be transformed into something really dynamic.

The secret to this technique is the stencil. What we have to produce is the DTP equivalent of a piece of card with letters cut out of it. This is then placed over the picture, creating the illusion that the letters have been crafted from that picture.

But you cannot use just any old word in any old font and use it with any old picture. The type needs to be large, bold and very tightly set so that the holes inside and between the letters are as small as possible. The picture should normally have a strong pattern, so that common details can be seen in every letter.

And the details should be easily discerned – this heading is going to be read in one quick eyeful; the reader is not going to sit and study intricate details. To create the stencil you need to use a structured drawing package like ProDraw or Art Expression. No matter which of these packages you are using, the technique is essentially exactly the same.

The first job is to create a rectangular panel with no line weight and a solid white fill colour. This is the card out of which we are going to cut the letters.

Don't worry about size and stuff at the moment, let's just create a rough stencil so you can learn the technique. You can create a more accurate one later.

Now we need a word. Select the boldest font you own and type a short word in quite a large point size. Try to choose letters that are kind of rectangular in shape and do not have a lot of space in or around them – R E B A are better shapes than C O J L, for example.

Give the word a black fill colour and position it on top of the white panel. Work in outline (wireframe) mode if you are having trouble seeing the white panel. The next step is to merge the two objects – the word and the panel – so that they become one compound object.

ProDraw users can simply group the two objects using the marquee tool and select Make Compound Object from the Object menu.

Art Expression users must first select the word alone, then turn it into a graphic using Convert To Graphic from the Text menu.

Next you must group the panel and the all the letters of the word, then select Merge Paths from the Effects menu.

The result is a single object, a white panel with holes in it where the letters were – a stencil in other words.

The panel doesn't have to be white; the panel colour needs to be the same colour as the page colour, which is normally white, but it can be any colour you like of course.

ProDraw users now need to save this object as a clip. ProPage, PageSetter 2/3 and PageStream will import it. Art Expression users will need to Export in DR2D or Save in Art Expression format depending on which DTP program you are using. Note that Illustrator88 format cannot be used for compound objects.

If you are using PageStream, then Export in DR2D format, and this will import straight into PageStream, no problems.

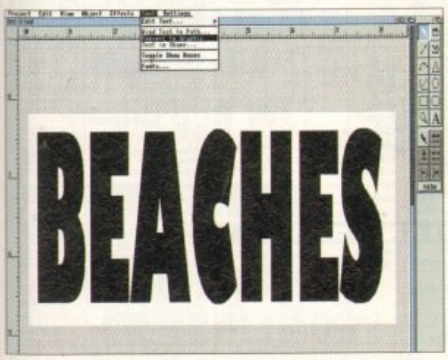
If you are using ProPage you should Save the object in Art Expression format, and to import it into a box in ProPage use the LeftAmiga-Shift-G keypress so that the requester that asks which format the graphic is in is put up. Select Art Expression format, and the object should import perfectly.

The only step left is to import and size the graphic, then place the stencil completely on top of the graphic.

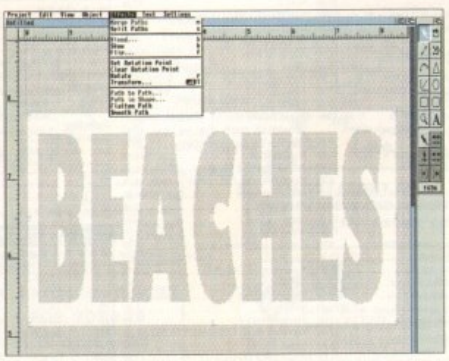
There are many, many uses to which this technique can be put. You can use it to give any picture any shape frame, from the much loved family portrait-style ellipse, to a grid or jigsaw puzzle effect, to, well, anything you like.

Just draw your shape or shapes on top of the white panel, group the lot and merge the group into a single compound object; the result will always be holes in the white panel.

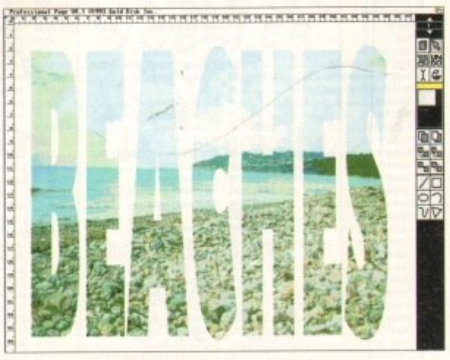
And remember that you can have anything you like visible through the holes, it doesn't have to be a picture. It could be words, or a pattern, or a gradient or rainbow fill – the stencil is one of the most useful and versatile tricks desktop publishers have up their sleeves. Just be careful not to overuse it in any one document, or else it will cease to be a special effect.



Art Expression users must convert the text to a graphic before a compound object can be created



After merging the paths of the white panel and the letters we are left with a white panel with holes in where the letters were



This is just one application for stencils – there are many, many more

THE WINNERS' ENCLOSURE

A Horse Racing Program with Artificial Intelligence

This amazing computer program learns from experience to improve your winning chances each time you use it!

◆ Easy to use ◆ No knowledge of racing required ◆ Fast data entry system ◆ Uses any daily paper ◆ NH and Flat ◆ Winners and Each Way Bets ◆ Famous on the PC, now on the Amiga! ◆

The Winners' Enclosure, ONLY £14.95!

Immediate despatch by First Class Post!

DiscOver, (AC01), PO Box 244, Doncaster, DN2 6QZ

☎ 0302 366653

SmartyPaints

The Serious Amiga art package for kids

ABILITY-CONFIGURABLE...LOTS of REAL functions

*TWO workscreens with brush cut & paste

Zoom, patterns, key shortcuts, Amiga fonts & more

*Works in 1Mb (1Mb. chip for 2 screens and full size brushes.)

SmartyPaints *costs just £28.50 + £1.50 P&P*

Cheques/PO's (no credit card orders) to:

CHROMA COMPUTER IMAGES

153 HOLT ROAD, FAKENHAM, NORFOLK NR21 8JF

Preview disk £2.50 Enquiries on 0328 862693 (office hours)

FAST QUALITY AMIGA REPAIRS

Upgrades + Engineering requirements

SAME DAY SERVICE
£34.99 + parts (comps in by 11am)

NORMAL SERVICE
£24.99 + parts (Typically 24 hrs)

Central London

Repairs on:

A500, A500+, A590, A600, A1200, A1500, A2000, A3000, A4000

Plus Amiga add on hard drives and monitors.

Spares also available

Door to door pick up + delivery anywhere in the U.K.

FAST ENGINEERING

144, Tanner St., Tower Bridge, London SE1 2HG

Tel. 071-252 3553

Premier Mail Order

(E&OE)

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. Please send cheque / PO (made out to Premier Mail Order) / Access / Visa No. and expiry date to:

Dept AC73, 9-10 The Capricorn Centre, Cranes Farm Road, Basildon, Essex SS14 3JJ. Tel: 0268-271172 Fax: 0268-271173

Telephone orders: Mon-Fri 9am-7pm and Sat & Sun 10am-4pm. **We Are Open 364 Days A Year**

P&P and VAT is included for all UK orders. Please add £2 P&P for Europe and £3.50 for Rest of the World. Next day delivery service available £4 per item

A-Train	12.99
A320 Airbus (Europe)	22.99
A320 Airbus (USA)	**22.99**
A320 Approach Trainer	19.99
Addiction	19.99
Air Bucks 1.2	19.99
Air Bucks 1.2	A1200 22.99
Air Force Commander	19.99
Akira	18.99
Akira	CD32 19.99
Alfred Chicken	A500/A1200/CD32 17.99
Dark Sun Shattered Lands	21.99
Alien Breed 2	**19.99**
Alien Breed 2	**A1200 19.99**
Alien Breed Special Edition	10.99
Alien Breed Special Edition	CD32 17.99
Ambermoon	19.99
Amberstar	**19.99**
Apocalypse	27.99
Archer Macleans	(see Excellent Games)
Assassin Remix	9.99
Award Winners 2	19.99
B17 Flying Fortress (1 Meg)	22.99
Bart vs the World	17.99
Batman Returns	16.99
Battle Isle 93	17.99
Battletoads	19.99
Beastlord	17.99
Beavers	17.99
Beneath Steel Sky	20.99
Benefactor	19.99
Blade of Destiny	26.99
Blastar	17.99
Blob	17.99
Bob's Bad Day	17.99
Body Blows Galactic	**18.99**
Body Blows Galactic	**A1200 19.99**
Body Blows/Superfrog/Overdrive	19.99
Breach II	**22.99**
Brian the Lion	19.99
Bubba & Stix	CD32 19.99
Bubba 'n' Stix	19.99
Bubble & Squeak	CD32 19.99
Burnin Rubber	16.99
Caesar Deluxe	19.99
Campaign 2	22.99
Caesar/Cohort 2	**CD32 22.99**
Cannon Fodder	**20.99**
Captive 2 - Liberation	A500 or CD32 20.99
Castle Conquest	19.99
Castles 2	19.99
Castles 2	A1200 22.99
Championship Manager '93 (1 Meg)	16.99
Championship Manager '94 Season Disk	7.99
Championship Manager Italia	16.99
Chaos Engine	**16.99**
Chaos Engine	A1200 17.99
Chaos Engine	CD32 19.99
Chuck Rock	CD32 12.99
Civilisation (1 Meg)	22.99
Civilisation	**A1200 25.99**
Cohort 2	19.99
Combat Air Patrol	19.99
Combat Classics 2	19.99
Contraptions	13.99
Cool Spot	19.99
Covergirl	17.99
Craft	17.99
Cyber Punk	17.99
Cybercon III	10.99
Cyberspace	22.99
D Generation	CD32 17.99
Dangerous Streets	A500 or A1200 17.99
Darkmere	20.99
Deepcore	17.99
Deepcore	CD32 19.99
Deluxe Music Construction Set 2.0	59.99
Deluxe Paint 4 AGA	64.99
Desert Strike	**19.99**
Detroit	22.99
Diggers	A1200 19.99
Disposable Hero	17.99
Disposable Hero	CD32 19.99
Dizzy Collection	16.99
Dizzy's Excellent Adventure	16.99
Dogfight	**22.99**
Donk	A500 or CD32 19.99
Dracula	19.99
Dreamlands	19.99
Dreamweb	22.99
Dune 2	20.99
Dynablasters	19.99
Elfmania	17.99
Elite 2 (Frontier)	**A500 or CD32 22.99**
Entity	19.99
European Champions	17.99
European Championship Football	CD32 19.99
Excellent Games	**22.99**
Exile	CD32 19.99
Eye of the Beholder 1	12.99
Eye of the Beholder 2 (1 Meg)	21.99
Eye of the Storm	19.99
F1	17.99
F117A Nighthawk Stealthfighter	**22.99**
F16 Combat Pilot	8.99
F17 Challenge	CD32 12.99
F17 Challenge/Project X	CD32 17.99
F19 Stealth Fighter	11.99
F29	10.99
FA Premier League	17.99
Fantastic Worlds	22.99
Fat Man	17.99
Ferrari Grand Prix	17.99
Fields Of Glory	22.99
Final Fight	8.99
Fire Force	CD32 19.99
First Samurai + Megalo-Mania	19.99
Flashback	**20.99**
Flight of the Intruder	10.99
Flight Sim 2 Great Britain Scenery	26.99
Flight Sim 2 Hawaiian Scenery	13.99
Flight Sim 2 Japan Scenery	13.99
Flight Sim 2 USA No. 7 Washington	13.99
Flight Sim 2 USA No. 9 Chicago	13.99
Flight Sim 2 USA No. 11 Detroit Scnery	13.99
Flight Sim 2 USA No. 12 New York	13.99
Flight Sim 2 Western European Tour	13.99
Flight Simulator 2	**24.99**
Fly Harder	CD32 12.99
Formula 1 Champions	19.99
Formula One Grand Prix	22.99
G2	17.99
Genesis	CD32 19.99
Global Gladiators	20.99
Globdule	19.99
Goal	**13.99**
Goblins 3	22.99
Graham Gooch 2nd Innings	11.99
Graham Gooch World Class Cricket	**15.99**
Graham Taylors Soccer Challenge	8.99
Grand Prix Circuit	19.99
Grand Slam Collection	13.99
Grusome	16.99
Gulp	CD32 19.99
Gunship 2000 (1 Meg)	**22.99**
Hanna Barbera Animation	**25.99**
Hannibal	**19.99**
Harpoon Battleset 2	22.99
Harpoon Battleset 3 or 4	9.99
Harpoon Scenario Editor	13.99
Harrier Jump Jet	22.99
Heroquest 2 - Legacy of Sorasil	17.99
Hill Street Blues	8.99
Hired Guns	22.99
History Line 1914-18 (1 Meg)	22.99
Hoyles Book of Games 2	10.99
IK+	6.99
Indiana Jones Fate of Atlantis Adv.	24.99
Inferno	CD32 19.99
Innocent	22.99
International Open Gold Championship	17.99
International Open Golf	CD32 19.99
Ishar 2	A1200 19.99
Jack Nicklaus Course Designer's Clip Art Volume 1	7.99
Jack Nicklaus Unlimited Golf	12.99
Jack the Ripper	27.99
Jaguar XJ220	8.99
James Pond 2	(see Excellent Games)
James Pond 2 - Robocod	**CD32 20.99**
James Pond 3	All formats 19.99
Jet Strike	17.99
John Barnes European Football	8.99
John Barnes Football	CD32 12.99
John Madden	10.99
Jurassic Park	17.99
Jurassic Park	A1200 18.99
Jurassic Park	CD32 19.99
K240 (Non AGA) - Utopia2	A500/CD32 19.99
Kingmaker	22.99
Kings Quest VI	A500/A1200 26.99
Kings Table	19.99
Kit Viscious	17.99
Knights of the Sky	10.99
Krusty's Super Fun House	17.99
Laser Squad	8.99
Legends of Valour	24.99
Leisure Suit Larry 2	12.99
Lemmings 2 The Tribes	**17.99**
Lemmings Double Pack	19.99
Links - the Challenge of Golf	**12.99**
Lionheart	**CD32 14.99**
Lost Civil	CD32 19.99
Lords of Power	**22.99**
Lotus Esprit Turbo Challenge	8.99
Lotus Trilogy	**19.99**
Lotus Turbo Trilogy	CD32 22.99
Magic Boy	17.99
Magician's Castle	19.99
Man United Premier League Champions	18.99
Manchester United Europe	8.99
Mario is Missing	19.99
Mavis Beacon 2	19.99
Messengers of Doom	19.99
Micro Machines	**17.99**
Microcosm	**CD32 29.99**
Monopoly	18.99
Mortal Combat	**20.99**
Mr Nutz	17.99
Mr Nutz	A1200 18.99
Naughty Ones	A500/A1200 17.99
Naughty Ones	CD32 17.99
Network Q RAC Rally	19.99
New Zealand Story	8.99
Nick Faldo's Golf (1 Meg)	22.99
Nicky 2	17.99
Nigel Mansell's World Champ	CD32 19.99
Nippon Safes	19.99
No Second Prize	17.99
No Second Prize	CD32 14.99
Oscar	A500 or A1200 17.99
Overkill	A1200 17.99
Pang	6.99
Parasol Stars	8.99
Perfect General	(see Lords of Power)
Perihelion	19.99
PGA Tour Golf Tournament Disk	9.99
PGA Tour Golf+	19.99
Pinball Dreams & Fantasies	**22.99**
Pinball Fantasies	A1200 19.99
Pinball Fantasies	**CD32 24.99**
Pinball Magic	6.99
Piracy	19.99
Pirates Gold	CD32 19.99
Populous & Promised Lands	10.99
Populous 2+	(see Excellent Games)
Powermonger & Data Disk	12.99
Prehistoric 2	16.99
Premier Manager 2	**17.99**
Prime Mover	17.99
Prince of Persia	6.99
Pro Tennis Tour 2 - J. Connors Grt Courts 2	8.99
Project X	10.99
Project X/F17 Challenge	CD32 17.99
Prophesy	19.99
Psycho Killer	CD32 22.99
Puggsy	19.99
Quest for Glory 1	12.99
Qwak	9.99
Qwak/Alien Breed Special Edition	CD32 17.99
Ragnarok	22.99
Railroad Tycoon	(see Lords of Power)
Rainbow Islands	6.99
Reach for the Skies	19.99
Reach out for Gold	A500 or A1200 17.99
Red Baron	(see Lords of Power)
Renegade 2	16.99
Renegade	6.99
Rise of the Robots	A500 or A1200 27.99
Robin Hood	10.99
Rookies	16.99
Rules of Engagement 2	22.99
Ryder Cup	17.99
Ryder Cup	**CD32 20.99**
S.U.B.	19.99
Sabre Team (Enhanced)	A1200/CD32 20.99
Scrabble	18.99
Second Samurai	**A500/A1200 19.99**
Secret of Monkey Island 2 (1 Meg)	24.99
Secret of Monkey Island	12.99
Seek 'n' Destroy	17.99
Sensible Soccer 92/93	16.99
Sensible Soccer	CD32 19.99
Settlers	**19.99**
Shadow Lands	8.99
Shuttle	(see Excellent Games)
Silent Service 2	(see Lords of Power)
Sim City +Populous	19.99
Sim City Deluxe	**22.99**
Sim City/Lemmings	**19.99**
Sim Life	A1200 22.99
Simon the Sorceror	22.99
Simon the Sorceror	A1200 29.99
Skidmarks	**17.99**
Slicks	12.99
Soccer Kid (Enhanced)	A1200/CD32 19.99
Soccer Kid	17.99
Space Hulk	**22.99**
Space Quest 2	10.99
Sports Masters Compilation	19.99
Star Trek	A1200 22.99
Starlord	22.99
Starush	16.99
Streetfighter 2	12.99
Striker	8.99
Super Hero	19.99
Super League Manager	17.99
Super Methane Brothers	17.99
Super Methane Brothers	CD32 22.99
Surf Ninjas	CD 32 13.99
Syndicate	**22.99**
T.F.X.	A1200/CD32 22.99
Tactical Manager - English or Scottish or Italian	19.99
Team 17 Collection Vol. 1	19.99
The Blue & The Gray	**22.99**
The Greatest	21.99
Theatre of Death	19.99
Tornado	**22.99**
Total Carnage	18.99
Total Carnage	CD32 19.99
Town With No Name	CD32 22.99
Tracon 2	22.99
Traps & Treasures	19.99
Trivial Pursuit Deluxe	CD32 19.99
Trolls	A500 or A1200 9.99
Trolls	CD32 19.99
Turning Points	22.99
Turrican 3	A500 or CD32 17.99
TV Sports Duo	CD32 19.99
Twi-Light 2000	20.99
Two Towers	19.99
U96	22.99
UFO	22.99
Ultimate Body Blows	CD32 19.99
UMS Compilation	27.99
Uncovered	17.99
Universal Monsters	17.99
Unidium 2	17.99
Unidium 2	CD32 22.99
Utopia 2	19.99
Western Front	20.00
Whales Voyage	A1200/CD32 19.99
Winter Challenge	22.99
Winter Olympics	22.99
Winter Supersports	A500 or A1200 17.99
Zool 2	**A500/A1200 17.99**
Zool	**CD32 19.99**

SPECIAL OFFERS

Arabian Knights	9.99
Blues Brother	8.99
Body Blows	12.99
Chuck Rock	10.99
Football Crazy Challenge	9.99
Kick Off 2 Final Whistle	7.99
Kick Off 2 Giants of Europe	7.99
Kick Off 2 Return to Europe	7.99
Kick Off 2 Winning Tactics	5.99
Sabre Team	9.99
Seymour Goes to Hollywood	8.99
Shadow Worlds	9.99
Super Tetris	12.99
Thunderstrike	5.99
Wing Commander	9.99
Zool	8.99

EDUCATIONAL

ADI English	(All Ages)	17.99
ADI French	(All Ages)	17.99
ADI Maths	(All Ages)	17.99
Alving Puzzles	(6-8)	12.99
Better Maths	(12-16)	13.99
Better Spelling	(8-14)	13.99
Cave Maze	(8-12)	9.99
Fraction Goblins	(8-13)	9.99
Fun School 2	(+8)	6.99
Fun School 2	(6-8)	6.99
Fun School 2	(U6)	6.99
Fun School 4	(5-7)	16.99
Fun School 4	(7-11)	16.99
Fun School 4	(U5)	16.99
Junior Typist	(5-10)	10.99
Magic Math	(4-8)	13.99
Maths Dragons	(6-13)	9.99
Maths Mania	(8-12)	13.99
Mickey's 123's	(2-5)	13.99
Mickey's ABC's	(2-5)	13.99
Mickey's Jigsaw Puzzles	(5+)	13.99
Mickey's Memory Challenge	(5+)	13.99
Noddy's Big Adventure	(3+)	16.99
Paint & Create	(5+)	17.99
Picture Fractions	(7-10)	9.99
Reasoning with Trolls	(5-12)	9.99
Tidy the House	(5-10)	9.99

JUNIOR ADVENTURE

Robin Hood	(8+)	13.99
The Three Bears	(5-10)	13.99
Wind in the Willows	(6+)	13.99
Wizard Of Oz		13.99
Scrooge (A Christmas Carol)	(8+)	13.99

JOYSTICKS/ACCESSORIES

Mouse Mat	1.99
Analog Adaptor	4.99
Gravis Advanced Switch Joystick	22.99
Gravis Gamepad	15.99
Cheetah 125+	7.99
Competition Pro Extra	14.99
Quick Joy 2 Turbo	10.99
Quick Joy Jet Fighter	11.99
Quick Joy Top Star	17.99
Disk Box (40 capacity)	4.99
Disk Box (50 capacity)	5.99
Disk Box (80 capacity)	6.99
Disk Box (100 capacity)	7.99
Suncom Stik Stick	5.99
Suncom Tac 2	7.99
Wico 'Q' Stick	4.99
Cheetah Bug	11.99
Disk Box (10 capacity)	1.99
Freewheel Steering Wheel	24.99
Quickjoy Pedals	17.99

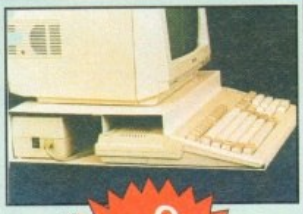
3.5" BLANK DISKS

	TDK/VERBATIM (BOXED)		PRECISION (BOXED)		UNBRANDED (LOOSE)	
	LOW	HIGH	LOW	HIGH	LOW	HIGH
10	7.99	9.99	6.49	7.99	5.99	6.99
20	14.50	19.50	11.99	15.50	10.99	13.99
50	35.00	47.50	26.00	37.50	23.99	32.99
100	65.00	95.00	49.99	72.99	44.99	62.99
200	125.00	190.00	94.99	141.99	83.99	121.99
500	300.00	470.00	219.99	350.00	199.99	287.50
1000	580.00	930.00	419.99	680.00	369.99	550.00

RECYCLED DS/DD LOW

10 ..... 4.50 20 ..... 8.50 50 ..... 17.50 100 ..... 35.00

AMIGA A500 AND PLUS CONSOLE UNIT



- Monitor console and keyboard unit
- No hard drive restrictions
- Power supply or modulator space
- Keeps cables tidy
- Non magnetic aluminium
- High quality texture finish
- Plenty of ventilation
- Installed in minutes
- Designed specifically for the A500 and 500+

A real space saver! - Thousands of satisfied customers

Only £34.95 incl P&P

Only £37.50 incl P&P

A1200 CONSOLE UNIT

Monitor console and keyboard unit
- Second drive space
- Power supply
- Keeps cables tidy
- Non-megnetic aluminium
- High quality texture finish
- Plenty of ventilation
- Installed in minutes
- Designed specifically for the A1200

KONTAX COMPUTERS

11a Waldeck House, Waldeck Road, Maidenhead SL6 8BR

VISA MasterCard

0628 773212

Phone lines manned between 8.00am - 9.00pm (No ansaphone!)

ONE PIECE DUST COVER ALSO AVAILABLE - PLEASE CALL

DIRECT COMPUTERS

No 1 for all your computing needs!

THIS MONTHS SPECIAL OFFERS

A1200 RACE & CHASE PACK	£275.99
AMIGA CD32 INC. OSCAR AND DIGGERS	£273.99
SEGA II INC. UNBELIEVABLE PACK (6 GAMES)	£129.99
SEGA GAMEGEAR INC. SONIC 2	£79.99

ALSO AVAILABLE

- AMIGA A600
- SEGA MASTER SYSTEMS
- SEGA MEGA CD
- IBM COMPATIBLE P.C.'s
- AMSTRAD
- AMIGA ADD-ONS
- FASCIMILE MACHINES
- PRINTERS
- MONITORS
- JOYSTICKS
- DISKS
- MONITOR STANDS
- P.C. SOUND CARDS
- CD ROM DRIVES

PLUS MUCH, MUCH MORE...

ALL ITEMS INCLUSIVE OF V.A.T.

WE WILL NOT BE BEATEN ON PRICE

Cheques and postal orders to:
DIRECT COMPUTERS, 2 Woodstock Street, Rochdale
Lancashire. OL12 7DG
Tel. 0706 869647

ALL ITEMS SENT UPON CLEARANCE OF CHEQUES ALL ITEMS EXCLUSIVE OF CARRIAGE

SELECTAFONT

THE UKs LARGEST COLLECTION OF FONTS

Over 2000 Fonts now in Stock!

PIC n MIX from over 80 Disks in ADOBE or COMPUGRAPHIC Format. Each Disk contains 12 Fonts and costs between £1:65 and £3:00

THE UKs MOST INEXPENSIVE FONTS

Each Font Costs Between 13p-25p

ITs BACK!!

WE introduced the PIC n MIX concept to the AMIGA, and now by demand:
THE RETURN OF THE INDIVIDUAL FONT SELECTION SERVICE!
YOU CHOOSE the FONTS.....We make up your DISKS!
Prices for individual Font Selection start from:

YOU CHOOSE... 30p each ...WE SELECT!

INK-JET/BUBBLEJET SERVICES

Having used Ink-Jets for 3 Years, we feel we are in a unique position to offer a first class service to all of our customers. We only supply PREMIER ink refills for all printers which we GUARANTEE will give a BETTER quality than from your original Cartridge. We also supply a comprehensive range of Ink-Jet/Bubblejet Consumables including: COLOUR KITS/ORIGINAL CARTRIDGES/CLEANING KITS

Single Refills	£6.99	available in Black/Cyan Magneta/Yellow/Brown Green/Red/Blue
Twin Refills	£12.99	
6 Pack Refills	£24.99	

CLIP ART We only supply Hi-res Clips that we have created ourselves. All disks come with image catalogues

PROBLEMS? 24 HOUR TECHNICAL HELPLINE FOR ALL CUSTOMERS

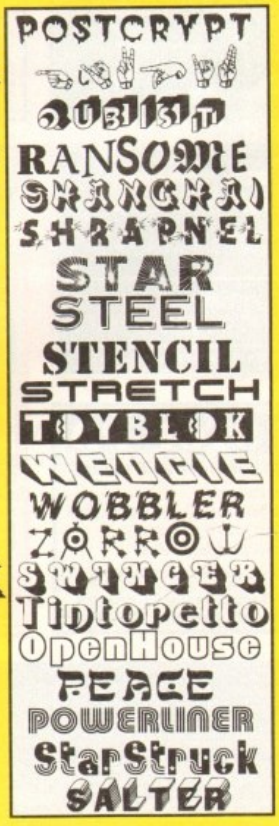
SCALEABLE CLIPS AVAILABLE For all Programs

For a Comprehensive Printout of all Fonts and Details of our other Services, Please send a large SAE with 36p Postage. (Or Phone for an information Pack). Please include details of your system and the Software that you will be using.

SELECTAFONT (DEPT AC), 84 THORPE ROAD, HAWKWELL Nr HOCKLEY, ESSEX SS5 4JT

PHONE AN INFO-PACK: TEL 0702 202835 24 HOUR SERVICE

ACCESS/VISA BARCLAYCARD MASTERCARD and all Major Credit Cards accepted CHEQUES payable to SELECTAFONT CREDIT CARD HOTLINE 0702 202835



AMIGA COMPUTING Snip

FREE PD SOFTWARE

AMIGA - PC - All Commodore

Call (081) 651 5436 or

Write to 45 Brookscroft, Linton Glade, Croydon CR0 9NA

Independent Commodore Products Users Group

CYNOSTIC

Office 01, New Enterprise Centre, Little Heath Ind. Est., Old Church Road, Coventry, CV6 7NB, United Kingdom
Tel: 0203 681687 Fax: 0203 638508

No hassle, No fuss, Just order from us.

For a free listing of the whole library, just phone the above number.

All the latest demo's available, including "9 fingers" (see review page for other new releases)

The Final Frontier Issue 6 now available! (5 Disk Issue) only £7+£1 P&P

Prices

PD	Post and Packaging
1–10 Disks £1 per disk	1–10 Disks £1
11–25 Disks £0.95 per disk	11–25 Disks £1.25
26+ Disks £0.90 per disk	26+ Disks £1.50

A500/A600/A1200 REAL TIME CLOCK

This compact battery-backed clock measures just 7 x 6 x 2 cms! Installation is easy, it simply fits onto the parallel port (keeping your warranty intact), and incorporates a throughport enabling all other peripherals to be used.

It comes complete with a disk containing some useful utilities, including a calendar/diary program with a multiple alarm facility.

New Reduced Price: £13.99 inc VAT
(plus £1 postage & packing)

Please make cheques/PO payable to
Kyte Products, 45 St Ladoc Road, Keynsham, Avon BS18 2DR

AMIGA ADVICE LINE 9am to 9pm

On registering you will gain access to unlimited Telephone Helpline advice for Workbench & Serious Amiga software & hardware. Other services include: Professional Scanning & Colour printing of IFF pictures, PD Fonts/Backgrounds & Utilities, and Software & Hardware discounts.

Registration Fee £15 p.a. Send cheque made payable to:

VIDEOWORLD
8 Ardoch Gardens, Glasgow G72 8HB

CDTV AMIGA CD32 CAPRI CD DISTRIBUTION

ALL AVAILABLE TITLES

CDTV joystick converter & memory switch. Fitted under CBM... warranty. 70+ CDTV titles compatible with CD32. 150+ karaoke titles

NEW TITLES AVAILABLE SOON
Microcosm • Defender Crown II
Grollier • Insight Technology
Guinness Disk Records 2 (32 only)
Many older Amiga games in stock

9 DEAN STREET MARLOW
BUCKS SL7 3AA
0628 891022
TRADE ENQUIRIES WELCOME

BJ ELECTRICAL

573 Evesham Rd, Crabbsgross, Redditch, Worcs B97 5JP

Loads of Amiga Games, Business & Education Software

All recommended retail prices less 15%

Ring 0527 542940
for catalogue and prices
Ansaphone Service in use

Scorpion PD "LOOK"

NEW LOWER DISK PRICES
1-20 – 75p each, 21+ 59p each

For our comprehensive catalogue disk (over 3,000 titles now in stock) send 50p or 2 1st Class stamps + SAE

26 Broadmarsh Close, Grove, Wantage, Oxon, OX12 0NH

FREE

452 GAME CHEATS
NEW 1.3 EMULATOR
PD CATALOGUE DISK
from
UNDERGROUND PD
RING 0702 295887

Are You Missing Out on the VERY BEST AMIGA User Group???

Thousands of New Contacts, Free Help & Advice, Second-hand Hardware, Software and Hardware bought / sold / exchanged. Exclusive massive Club discounts. Latest product information and member reviews, Plus the best Fanzines/diskzines and Millions of PD/Shareware titles at unbelievable member only prices. Exclusive Newsletters, BBS and much, much more... Find out what you're missing by sending an SAE for our FREE intro pack to:

C.C.C. (AC5), PO Box 121, Gerrards Cross, Bucks, SL9 9JP
(0753) 884473

Trade and Dealer Enquiries welcome Plus FREE publicity for new software/fanzines etc. Contact us now!

PD DROME

32 Meadow Terrace, Herrington Burn, Houghton Le Spring, Tyne & Wear DH4 7AF
Tel/Fax: 091 584 4899

AMIGA PD Games – Utils GFX – Demos Music – Etc

OUR FIRST 300 CUSTOMERS GET DISKS AT 80p OR LESS

CATALOGUE DISK = 65p OR TWO 1st CLASS STAMPS

BREAK THE SOUND *BARRIER!*

THE MUSIC STOP FOR YOUR AMIGA

MIDI/MUSICWARE © AMIGA PD – HARD & SOFTWARE

For all your Music and Midi needs. Samples and Modules for Protracker, OktaMed, etc. Midi Sequences, Patch editors.

For more details please send 50p for our catalogue

We are also Amiga 1200/4000 Public Domain Specialists. *Send S.A.E.*

DR T's & Blue Ribbon products
ARBITER – Editor Librarians
FATAR – Master keyboards
SAMPLING HARDWARE

DISK EXPANDER
Double your disk & Hard Disk capacity!
NOW £32 inc p&p

Sector 16 • 160 Hollow Way
Cowley • Oxford • OX4 2NL
Tel: (0865) 774472

LOGIC PD

FREE CATALOGUE DISK

80p Per Disk FREE P+P

031-453-6087 GREAT PD AT GREAT PRICES – JUST 80p **031-453-6087**

UTILITIES • MEGADEMOS • DEMO MUSIC • FRED FISH • GAMES • ANIMATIONS

FULL DESCRIPTION OF EACH DISK

SAE TO LOGIC PD (Dept AMC) 8/5 Glenalmond Court, Sight Hill, Edinburgh EH11 4BE

BUS STOP PD

What do you want from a PD Library?

- 24 Hour Turnaround?
- Possibly the best catalogue in the country?
- Friendly service run by Women?

All this for 85p per disk?

Then send 50p + SAE for our catalogue of 2000 + disks to:

Dept CO, 2 Wycliffe Terrace, Gilmorton Road, Lutterworth, Leicester, LE17 4DX

AMIGA KEYBOARD OVERLAYS

...now you can write the keyboard commands on the keyboard!

Brilliant for flight simulations and all programs with keyboard commands...games, music, graphics, business, DTP, anything

Cheques or postal orders only to:
Silverbird, Dept. AC5, 47 Barton Road, Harlington, Bedfordshire LU5 6LG, England

For all Amiga keyboards except A1000, A600. Sold only in packs of five for £5.20 plus post & packing: UK 80p; Europe & BFPO £1.50; Rest of the World £2.50

MILITARY SIMULATONS

Barbarossa June 1941 @ £17.00

For those interested in intelligent strategy wargames. Send SAE for details to:

KW Software
155 Ringinglow Road,
Sheffield S11 7PS

Dominator One P.D. Tel:(0709)837488 10am–6pm

1 to 5 Disks	£1.25 Each	6 to 10 Disks	£1.00 Each
11 to 15 Disks	85p Each	16 or more Disks	75p Each
LSD Docs. disks	£1.35 Each	LSD Legal Tools	£1.25 Each
Sprint Docs.	£1.25 Each	GrapeVine disk's	£4.00 Set of 3
Fred Fish disks	£1.15 Each	Just Amiga Monthly	£1.25 Each
Scope disks 1–220	£1.25 Each	NASA AB-20 Disks	£1.30 Each
Full set JAM Disks (10 in all)	£10.00 Save £2.50	Full Sprint 1–8 (Not inc 7)	£7.00 Save £1.75
Full set LSD Docs.	£58.00 Save £2.35	Fred Fish 1 to 890 now in stock	£1.20 Each
Full set LSD Legal Tools	£54.00 Save £2.25		

We have hundreds of PD disks ranging from Demo's, Music, Utilities, Virus Killers, Music Demo's, A1200 Demo's, Emulators, Fonts, 100's of module disks, about 8000 samples, Pictures, Clip Art and Lots more...
For a Free Catalogue disk send a SAE to:
G.P.ROEBUCK, 11 THE MALTINGS, ALMA ROAD, ROTHERHAM, SOUTH YORKSHIRE, S60 2JA
PLEASE MAKE ALL CHEQUES/POSTAL ORDERS TO G.P.ROEBUCK (THANK YOU)
All Postal Orders are despatched the same day on receiving your order. (1st class post)
Cheques are usually 5 days for cheque clearance.

SCRIBBLE P.D.

THE NEW CHOICE FOR AMIGA PUBLIC DOMAIN & SHAREWARE, QUALITY UTILS, GAMES, DEMOS & ADVICE... SORTED!

SCRIBBLE OFFICE 2 (WB2/3) (2)	SBL UTILS 1	TOME OF MYTHS (2)
SCRIBBLE UTILS 6-11 (WB2/3)	COMPUCARE	JUNIOR MATHS
SCRIBBLE COMMS 2 (WB2/3) (2)	PROCAD (Now updated)	LANGUAGE TUTOR (Fr/Ger/Sp/It)
SCRIBBLE EMULATOR PACK (10) £8.50	EDWORD PRO	READ & LEARN-3 LITTLE PIGS
OCTAMED PRO 5 DEMO (WB2/3)	STOCK ANALYST	SCRIBBLE GAMES PACK (5) £4.50
AGRAPH	MAXILIFE & SPENDWISE	CLIPART PACK (6) £5.00
ACTION REPLAY IV (WB2/3 State m/c)	MAGICWB (WB2/3 +HD)	GOTHIC LETTERS CLIPART (2)
LSD LEGAL TOOLS (Latest)	MACROSS MANGA SLIDES (WB2/3)	VIZ CLIPART
XPK COMPRESSION (WB2/3)	LAPUTA MANGA SLIDES (WB2/3)	COMIC ART

FROM 75p

THIS IS JUST A SMALL SELECTION, WHY NOT TRY THE CATALOGUE DISK (WITH FREE GAME) ONLY £1.00
DISKS £1 EACH – 75p FOR 20 OR MORE, P&P 75p PER ORDER/£2 OVERSEAS

CONTACTS & SUBMISSIONS ALWAYS WANTED!

CHEQUES & PO's TO: SCRIBBLE PD, 2 HILLSIDE COTTAGES, BURSTALL, SUFFOLK IP8 3DY. Tel: 0473 652588

pets

Jorvik PD

(DEPT. AMC) • 22 HEMLOCK AVENUE • YORK • YO3 9DG
Tel: (0904) 624637 9am-8pm Mon.-Sat.

UTILS
Magic Workbench
Stonecracker PRO
PC-Task v2.03
Code Mungus v5.7
Disksalv2 v11.28 (2.04+)
Ncomm v3.0
VirusZ II v1.00 (2.04+)
Address Print v4.0
ASI Video Titlers
Mega D (2) (2.04+)
Amiga E v2.1b
Relokick v1.4
Pay Analyser v4.0
PP Show v4.0 (2.04+)
Graphic F/X Utils (4)
Skick v3.43
DMS v1.52a
DEMOS
Technological Death
Aluminium
9 Fingers (2)
Abdomenizer
Lobotom
Investation
Rink-a-Pink
Groovy
Noice
Machiavel
Raging Fire
Boggledop
No-Lem
Nugget
Damage
Arte
AGA
Panta Rhei
Hypnosis
Volcano
Origin (2)
Abstrax Pig
Beyond Belief
Full Moon
Ray World (3)
Scan Is Lame (2)
Star Trek (5)
Beauties (18)
World of Manga (4)
Fit Chix 1,2,3 (6)
Bad Boyz Art (10)
Superham (6)
Megaball v3.0
Jurassic Park
Ham8 Pics (3)

PD 99p
P+P 50p

Please make cheques/POs payable to: D BATEMAN

50 TOP AMIGA GAMES

FOR ONLY £9.99 POSTPAID!!

These games are NOT Public Domain or Shareware!
They are ALL 1993 Copyrighted games titles!

Adventures, Puzzlers, Platformers, Sports,
Shoot-em-ups, Beat-em-ups etc.
Some of these games were MEGA-HITS

FUTURE SOFTWARE (AC)
8 Magnolia Park, Dunmurry, Belfast BT17 0DS
All AMIGAS – 1 MEGABYTE MINIMUM!
Fast Despatch on orders. Overseas add £2.00.

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: 081-657 1617

1-3 disks £1.50
4 or more
ONLY £1.25!

FREE P&P

ARNOLD COMPUTER SUPPLIES

Amiga A1200	from **£280**
Amiga CD32	**£280**
Box of 50 Blank Disks (including labels)	**£19**
Pre Formatted HD Disks	**£25** (per 50)

Free local delivery (10 mile radius)
All your computer needs catered for.
Please phone or fax for latest prices.

Barry Voce 0602 264973
11 Campion Street, Arnold, Nottingham NG5 8GR

Amiga-64-Link £23.50

Inc VAT–P&P

Links C64/128 peripherals to the Amiga parallel port (C64 not required)
Use your old C64 printer with the Amiga (MPS, DPS, Star, Citizen, Seikosha, Brother...)
Transfer C64 disk files to the Amiga (BASIC, Easyscript, Sequential, Binary...)

York Electronic Research Tel (0904) 610722 Fax (0904) 670063
The Paddocks, Jockey Lane, Huntington, York, YO3 9NE
11am–6pm Mon–Sat

Crystal Haze Design

CUSTOM GRAPHICS AMIGA HARDWARE

TEL: 021 421 4835

As well as selling AMIGA hardware we also design Still frames & Animations at VERY competitive prices, phone for more information.

A1200 Race & Chase pack

RAM	HD	PRICE
2MB	0MB	£289

OTHER MODELS AVAILABLE

A400/ECS 030's

RAM	HD	PRICE
2MB	80 MB	$860
2MB	130MB	$906
4MB	80 MB	$921
4MB	130MB	$978

OTHER MODELS AVAILABLE

A4000/040's

RAM	HD	PRICE
6MB	130MB	$1744
6MB	214MB	$1792

OTHER MODELS AVAILABLE

ALSO AVAILABLE: 24-BIT CARDS, GVP PRODUCTS
HARD DRIVES, CD-32 SOFTWARE, CD-32 VIDEO MODULES
MONITORS, DRIVES, A1200 EXAPANSION CARDS, CD-TV DRIVES.

GVP DSS8+ Sound Sampler PRICE $62

GVP G-LOC GENLOCK PRICE $270

ADD $8.80 for Large goods and $6.80 for small goods
Allow 8-10 days for delivery.

MAKE CHEQUES/P.O's PAYABLE TO: SIMON HOUGH, 36 TREVANIE AVENUE, QUINTON, BIRMINGHAM B32 1EX

Prices may change without notice.

To place an ad on this page call Barbara Newall on 0625 878888

Copy dates:

June	11 April	On sale	5 May
July	9 May	On sale	2 June
Aug	6 June	On sale	30 June

Free typesetting service provided

49.5mm x 35mm

103mm x 35mm

49.5mm x 74mm

Don't risk missing your AMIGA COMPUTING

Hand the order form below in to your local newsagent and s/he will make sure you never miss a copy!

To the newsagent: Amiga Computing should be available from your local wholesaler. If not, contact the Circulation Department at Europress on 0625 878888

AMIGA COMPUTING

Please reserve a copy of Amiga Computing magazine every month until further notice.

☐ I will collect

☐ I would like it delivered to my home

Name:.....

Address:.....

.....

..... Postcode:.....

PRIZE LINES

YOUR CHANCE TO WIN FANTASTIC PRIZES JUST BY CALLING OUR TELEPHONE NUMBERS BELOW

YOU CAN WIN THIS FANTASTIC MOUNTAIN BIKE

DIAL 0891 111104

WIN A SEGA MEGADRIVE

THE MORE TIMES YOU CALL THE BETTER CHANCE OF WINNING

NO TIE BREAKERS

DIAL 0891 111103

TWO THOUSAND POUNDS COULD BE YOURS

CALL OUR HOTLINE NOW: 0891 111105

WIN THE TOP 50 C.D.s

EASY TO ENTER WITH NO NASTY TIE BREAKERS

DIAL 0891 111102

WIN AN AMSTRAD P.C.

DIAL 0891 111106

Max. duration 7.5 mins with multi-choice answers. If you don't pay the phone bill get permission from who does. Calls cost 39p a min. cheap rate or 49p a min. at all other times. Max cost £3.68. Rules/winners free by post from EarthBound, Enterprise House, High Street, Newcastle NE15 8LN. Winner picked at random on closing dates 20/6/94 to be notified by post.

shop window

the locator

AMIGA MARKET

ADI 2 GCSE..175

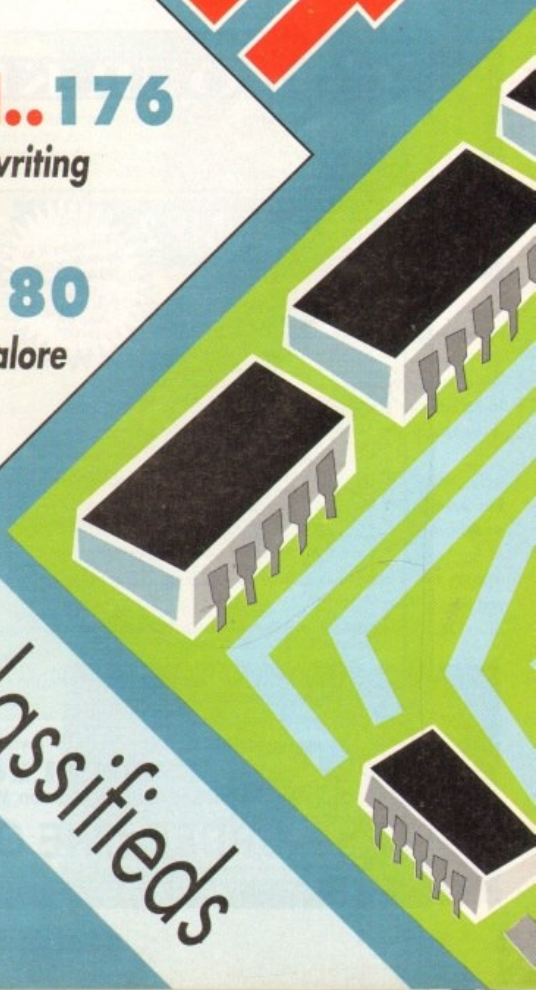
A superb aid to revision taken to class and tested

Assembler Tutorial..176

Brand new six part guide to writing games in assembler

Classifieds..180

Second hand bargains galore



classifieds

GREAT AMIGA OFFERS

The Premier Library of Wales - Now Established over 5 years - 1000's satisfied customers worldwide

BUSINESS

+1667 NORTHC v1.3 latest C Comp
+1560 DATABASE MASTER Amos
+1599 FAMILY HIST. Genealogical
+1558 ARCHIVIST Easy data store
+1558 NOTEBOOK make book
+1544 TYPING TUTOR Practise
1560 SPREAD & QBASE Spread & DB
+1387 PASCEL COMPILER v1.2A
+1392 P-SUITE Make Disk Mag
+1393 A-GENE Genealogy
+1376 AMIBASEPRO Best Database
1375 Rim-5 Relational Dbase

EDUCATIONAL

+1690 MATHS DRILL for young
+1691 A-D SCIENCE 4 disk progs.
1297 TREAS. SEARCH Find it!
1274 LEARN & PLAY 1 Maths
1275 LEARN & PLAY 2 Multi Drills
1284 EDUCATION1 German etc
1285 EDUCATION2 Globe Drawmap
1286 EDUCATION3 Evolution, etc
+1287 EDUCATION4 Weath Gavity
+1887 FRACTIONS & SILH Y
2004 FIREWORK ALPHABET
2005 WORLD GEOGRAPHY

★★NEW GAMES★★

+1911 3 SHOOT 'EM Games Y
+1911 LERXECESS Hangman Game Y
+1624 AMOS CRICKET Y
+2300 WIBBLE WORLD Y
+2000 FRUIT SALAD
+2001 STORM EAGLE Y
+2002 LEDDINGS Y
+2003 MR & MRS Y
+1935 TAKE 'EM OUT Y
+1936 RESCUE Y
Lots more great games available
ASSASSINS Game Disks 1-130

A1200 Only

1856 1200 Slideshow 1 Mansell Pics Y
1857 1200 Slideshow 2 Wild Life Y
1858 1200 S/show 3 Great starpics Y
1859 1200 Slideshow 4 girls Y
1860 1200 S/show 5 cars. & Tiger Y
1873 Fantasy Style s/show 2 disks Y

CLIP ART

+1396/9 CHURCH & BIBLE 4 Disks
+1406 STUDENTS 16 brill pics
+1407 BUSINESS CLIP Office life
+1504 OLYMPIC 22 sports pics
+1505 SEALIFE 48 sea-related pics
+1506A/b SPORTS 1 Sports 2 disks
+1402 GIRLS 1920's style art.
+1507A/b SCHOOL Educat. 2 Disks
+1395 HORNBACK Handdrawn pics
+1508 SILOUHETTES Shadow pics
+1510 SHOWTIME 37 related pics
+1509 VEGGIES detailed pictures
+1511A TEDDIES Lots of Teddy Bears
+1511B TEDDY BEARS Disk two
+1512 FOOD & KITCH. 2 disks
+1403 SMARTART III 100+ pics
+1513 MORE SPORTS about 40 pics
+1514 ANIMALS wild & pet
+1515 CATS Wild & pet moggies
+1516 HOLIDAYS Public Hols
+1525A-E PUNCH (mag)CLIP 5 disks
+1527 OFFICE 32 pics equipment
+1592A-B KIDS (at play) etc 2 Disks
+1405A WEDDINGS Good & varied

ASSASSINS PACKS

Pack 10 Games Disks 91-100
Pack 11 Games Disks 101-110
Pack 12 Games Disks 111-120
Pack 13 Games Disks 121-130
Any ten ASI games disks £8.99

Lot of great NEW CLR Titles

All CLR titles, CD-ROM, FISH, SCOPE, T-BAG, AMICUS, SNAG

Softcell Services

25 Maywood, Brynna, Pontyclun, CF7 9PZ

VISA Order HOTLINE 0443 238630

99p per DISK plus £1.00 p&p per order

+=OK A600
Y=OK A1200

1000's of programs Available - Free Catalogue - Great PC Library

---

NEW 94 EDITION

What every housewife should have...

The Housewife's Bible

Packed with hundreds of tips and priceless information on secrets such as:

Excellent knitting tips
Prevent flowers from fading
How to remove grease from rugs
What to do if you ever salt food
Easily untie a knot in a chain
Easy to unglue stamps and envelopes
Repair small holes in screen
How to remove oil from a driveway
Cut glass without a glass cutter
Keep nails from splitting wood
Get water out of your watch
Open that stuck zip
Increase your petrol mileage
How to renew car batteries
Good glass door safety tip
Make shoes slip proof
The ideal pin cushion
Good dog and cat repellant
Easy to rid pets of fleas
Quick ways to press ties
How to remove staples
Keep salt moisture free
Easily reduced astringy smell
Remove a broken light bulb
Keep piano keys looking new
Remove a stubborn screw
Destroy desire for nicotine
Destroy desire for alcohol
Excellent insomnia formula
Famous diet formula plan
Make tights last longer
Remove blood stains from carpet
Keep a burn from blistering
Remove ink stains from carpet
Easy clean your nail file
Remove a broken light bulb
How to freshen stale nuts
How to destroy onion smells
Keep and use over-ripe bananas
How to boil a cracked egg
Easy boiled egg peeling
Eliminate popcorn duds – fast
Vegetable for liver and prostate
Fruit soothes intestinal tract
A fruit for arthritic gout
An appetizer fruit
Fruit for the stomach
A fruit for constipation
A fruit high in iron
A fruit for nutritizing acid
A fruit healthful for kidneys
A fruit fine for the nerves
Tips on sewing slippery material
A good needle-sharpening pin cushion
Cure scratches on your furniture
Protect children from sockets
Tips on buying shoes
A vegetable for breath purifier
Ingredient good for the heart
A vegetable good for the eyes
A good source of iodine
A vegetable with 6 X more vitamin C
How to remove a hot cake pan
Prevent kitchen stools from slipping
How to clean carved furniture
Really shine your kitchen floor
A fruit thought anti-cancer
Remove cigarette stains from china
Remove stains from coffee cups
A really good copper cleaner
To clean your diamond rings
Clean tarnished gold and silver
Prevent costume jewelry from tarnishing
Good cleaning aid for dishwashing
A vegetable good for kidneys
Stop clothes catching on hangers
Remove shoe polish from clothes
Keep vegetables fresh longer
A vetetable that's antibiotic
How to restore velvet like new
A fruit to tune blood vessels
What to do when shoes get stiff
Make black suede shoes last longer
Remove salt rings from shoes
Keep vegetables green while cooking
Quick onion rings
Good breadcrumbs substitute
How to cut a soft pie
How to cut a frosted cake
How to make fluffy egg omelette
How to tell when the omelettes done
Cheese cutting tips
Peel onions without tears
Good refrigerator de-odourizer
What to do about grease spills
Make a good egg separator
Two fruits thought anti-tobacco
How to keep meat fresh looking
How to perk up wilted lettuce
Make frozen vetetables fresh
The best way to slice onions
Keep potatoes from sprouting
Get rid of all cooking odours
Tips for cutting hot cake

And much, much more

Introducing the most comprehensive book ever written on invaluable information in the home.

Have you ever wondered if there are easier ways to do everyday chores or odd jobs that seem impossibly difficult?

Based on the No.1 selling *Kitchen Companion* in America this UK version is the result of two years intensive 'tip collecting' and provides a unique gold mine of labour saving ideas.

IDEAL GIFT

Limited Offer Only

£6.99 + £1 p&p

Order Now - You'll wonder how you ever coped without it!

Please send me.....copies of "The Housewife's Bible" at the special price of only £6.99 + £1 postage and packing each. I enclose a postal order/cheque make payable to Modern Publications.

Name.....

Address.....

.....Postcode.....

Send to **Modern Publications (Dept. HB)**, Steeple House, Percy Street, Coventry CV1 3BY. All orders despatched within 7 days.

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 "Flexicolor Kit". Each Amiga Flexicolor 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. **COMPLETE KIT £39.95**

FLEXIDUMP 2

"Consider it to be as important as your power cable" (CU Amiga, Nov 92)

★ Total COLOUR CONTROL
★ Select area to print
★ Select size to be printed
★ Balance control for enhancing dark pics IFF or HAM
★ Now includes new feature to insert colour pics into word processor documents.
★ Page control. ★ Colour sieve. ★ Ink correction.
★ Pattern rotate. ★ Dot pattern control
★ Automatic poster mode for larger than A4
★ Production Graphic/Text Labels/Letterheads
★ Multiple copies control
★ PRINT FULL COLOUR ON YOUR BUBBLE JET PRINTER
★ Colour separation for B jets.
★ Laser quality colour graphics
★ Import larger than screen size files and use Flexidump to reduce (produces superb letterheads).
★ Gamma correction (fully adjustable and savable)
★ Colour/Mono catalogue function. Will print a mini picture (size selectable) of a complete disc (sorted alphabetically) including titles
★ Ideal for T-Shirt printing. Drives a wide range of Colour and Mono printers. Star LC10, LC20, LC200, Citizen Swift, Nec, Panasonic KXP2180/2123, Canon etc.

£39.95 inc
UPGRADE FROM FLEXIDUMP TO FLEXIDUMP 2 £11.75 inc. RETURN MASTER

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 Citizen 120D/Swift	£11.95
1 Colour Star LC10	£11.95
1 Colour StarLC200 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
1 Colour Taxan/Canon 1080A	£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.....£11.95 a set

HP DESK JET HEAT TRANSFER INKS, BLACK REFILL £14.95, TRI COLOUR REFILL £39.95. TRANSFERLAQ FOR TRANSFERING ONTO CERAMICS, GLASS, ALUMINIUM £14.95. HEAT ALL PRICES INCLUDE VAT AND CARRIAGE

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 4 Colour (Normal Ink)
1 Reload – £6.99.....5 Reloads – £29.95
Panasonic 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.
Special reink for Panasonic printers, Star LC200 9-pin, Epson LQ100, OKI 182/390, black bottle, will reink 100+ ribbons £9.95

HP DESKJET/CANON BUBBLEJET REFILLS

"CARE THREE PACK" will refill HP51608A Cartridge 3 times. The Canon BC-01/SJ48 Cartridge 3 times. Three Pack available in Yellow, Magenta, Cyan, Red, Blue, Green, Brown, Purple, Black **£14.98 each.**
"TRI-COLOUR PACK" 3 Yellow, 3 Magenta, 3 Cyan refill **£17.95** available for bubblejet and deskjet
"CARE SIX PACK" will refill HP51608A Cartridge 6 times. The HP51626A High capacity 3 times. The Canon BC/01 Cartridge 6 times.
Please state type when ordering
6 BLACK REFILLS ONLY £24.95

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: 0923 672102

ORDER LINE ON 0923 894064

Cramming with the critter

ADI makes his latest foray into the more grown-up world of GCSE study and revision with his Maths, English and French packs. Stevie Kennedy wonders if the National League tables will feel the effect

Europress Software's ADI range has, since its release, been seen as one of the best Amiga educational tools for parents and teachers with younger children.

Now, however, the extra-terrestrial is moving into uncharted waters with the release of ADI GCSE, three packs covering English, Maths, and French and primarily aimed at home study and revision.

As usual, the software is presented as an environment disk, holding the core of the ADI control software, and a data disk for each application area.

This means that floppy users should find disk access reasonably limited, but I would like to have seen a hard drive install option, particularly as the huge colour-coded copy protection sheets are fairly photocopier-resistant.

To begin with, ADI is rather patronising, especially given the fact that most 15/16-year-olds these days are rather more worldly wise than most of us would believe possible. When I typed in my name, as requested, the cheeky little critter quipped that it was unusual and asked if I was a girl.

ATTAINMENT

Once into the main revision exercises, though, ADI really starts to impress. The software is designed to cover attainment targets six to ten, and a full record of the user's progress is kept for later study. Using the record it is easy to see where weaknesses may lie and concentrate on them, making ADI a good tool for revision.

Tools available include a calculator, a personal diary in which students can keep notes ("Now I remember why I hate algebra" was my only entry), and the facility to send "letters" to other users of the same package.

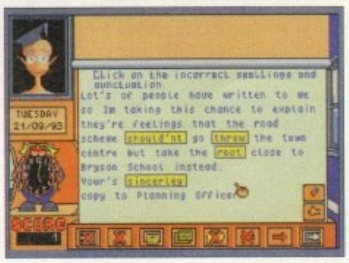
As an incentive to learn, a variety of games are on offer, starting with a basic Battleships clone, which the student can access as his or her scores in the revision section increase.

This is a fair enough idea, but as the games compare badly with most PD offerings, I fail to see how a 15-year-old is expected to see them as a spur to learning.

In revision mode, once ADI has finished cracking the odd terrible "doctor, doctor" joke, the real business of passing GCSEs is helped along admirably by the variety and depth of subject coverage. I sampled all three packages, and in each there is plenty to keep a student going for many hours.

In particular, the French package is very impressive, and uses a variety of topics covering travel, eating, camping, looking for a job, and so on in the same way as the GCSE French course itself. As the program proceeds, it becomes progressively more testing, and my rusty French forced me to accept defeat on some of the past participle questions.

As jobs are so scarce over here, we could always try for one in French over there



Spelling is probably the easiest exercise in GCSE English

Identifying the correct words and phrases, with solutions and on-line help available if you run into trouble, can be less taxing, but in general this package should be a stiff test of just how much you were listening during class time.

The English disk is hardly less complete, and by using a variety of example including advertisements, letters, and narratives, it tests the student's knowledge of word origins, sentence structure, punctuation, and tone. Semi-colons and apostrophes, two of the most consistent traps for most people, are well covered, as are meaning and ambiguity.

At times, usually when guessing the missing word, the program can be a little hit and miss, but this is rare, and there are many adults who would benefit from a few hours at the keyboard with this disk.

Finally, possibly the most hated subject on the school curriculum, mathematics, is available for those with a either a masochistic streak or a few problems with numbers (no government minister should be without it).

Equations, sequences and patterns, formulae, and graphs are covered in depth, and only the better students will find the later sections easy.

As with the French package, I was stumped closer to the end by some of the examples, and it was only with the aid of long dormant areas of the brain that I was able to master some of the trickier simultaneous equations.

Given ADI GCSE's depth and range, the ADI figure's constant interjections, a tendency towards user-friendliness, and the on-line help, it is difficult not to recommend the package to parents.

My only two criticisms would be that at £34.99 per package it is a rather expensive option, and that ADI could be a bit less patronising, particularly when the program first boots up.

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

Product: ADI GCSE
Supplier: Europress Software
Phone: 0625 859444
Price: £34.99 per subject

Flashback

Other sound GCSE packages are difficult to find, but 10 out of 10 Software's range springs to mind. Less slick than ADI, and definitely suffering on the graphics front, these are nevertheless perfectly good study programs with a strong national curriculum bent, and cheaper to boot.

The various study guides available as paperback books also provide just as much in the way of thorough revision material, but ADI is much better at retaining the student's interest. If it can keep a reviewer long past school age going for a couple of hours without becoming tedious, it can't be bad.

Leader of

It's right up there in terms of speed and efficiency. It's your passport to smooth, exciting gameplay. It's the Assembly language, and Mark Jackson reveals how it can be used to recreate a classic old game

Fed up with playing games? Want to do something a bit more creative with your computer than just killing aliens? Well, you could start programming it! But which language would you use to talk to your Amiga? After all, there are so many – Pascal, C, Basic... For me there is just one language worth using, and that's machine code.

If you've been put off in the past by how hard it all looks, don't worry – it isn't that difficult really! All you need to start coding is an assembler, to assemble your source code into executable code (hence the name).

If you are serious about learning machine code I'd strongly recommend you buy a decent assembler like Devpac 3. Although it's a little pricey at around £50, it's well worth it.

There are some assemblers to be found in PD libraries but to be honest they're not very good. I know you can't expect too much from something that's free, but the ones I've tried out didn't even work (or at least I couldn't get them to work, though I'm sure there must be some usable ones out there somewhere!).

BEGINNER

If you're a complete beginner, I think the best way for you to learn would be to pick it up as you go along. If you play around with the source code on this month's disk and follow these articles it should all become clear.

OK, so far so good! Now we're going to do a little project together, and have I got a good one for you or what? Do you remember Pacman? Well we're going to code our own, definitive version of it.

It is about the simplest game I could think of to do, but in doing it we should cover most aspects of writing a game, and coding in general, for once you know how to code you're not restricted to just writing games – you could write utilities, ray tracing programs, music programs – whatever you wanted.

Over the next six months we'll code all of the routines we'll need, but first of all I'll show you how to take control of the system, shut it down and set up our screen. Then, when the Esc key is pressed, the system will be restored. That's what the source on this month's CoverDisk does (core.s), and it can be used as the core of any program.

Follow the on-disk source code line by line and we'll examine what each of the commands does as we go along. Typing in your own listings is much easier once you've messed about with someone else's.

First of all the code calls the exec-library function forbid which stops the system from multitasking – we want all of the processor time for ourselves!

There are several libraries available to you (graphics, DOS, intuition, etc) but probably the most important one is the exec-library, which is resident in memory all of the time, while the others have to be opened before they can be used.

Next we'll need to allocate some memory for our screen. There's another function in the exec-library to do this for us – we just tell it how many bytes we want and what type of memory we require (chip/fast). We'll be using a five ibitplane screen to give us the full 32 colours, each bitplane being 40 bytes wide and 256 lines high, so we need 5 x 40 x 256 = 51,200 bytes of memory.

Next we need to save the address of the system copper list, and set up our own copper list. If you don't know, the copper is a co-processor which can wait for any line in the screen and move a value into a hardware register.

INDEPENDENT

That doesn't sound very useful, but it is. As it is a co-processor, it works independently of the 68000 main processor and as a result of this frees the 68000 up to do other things.

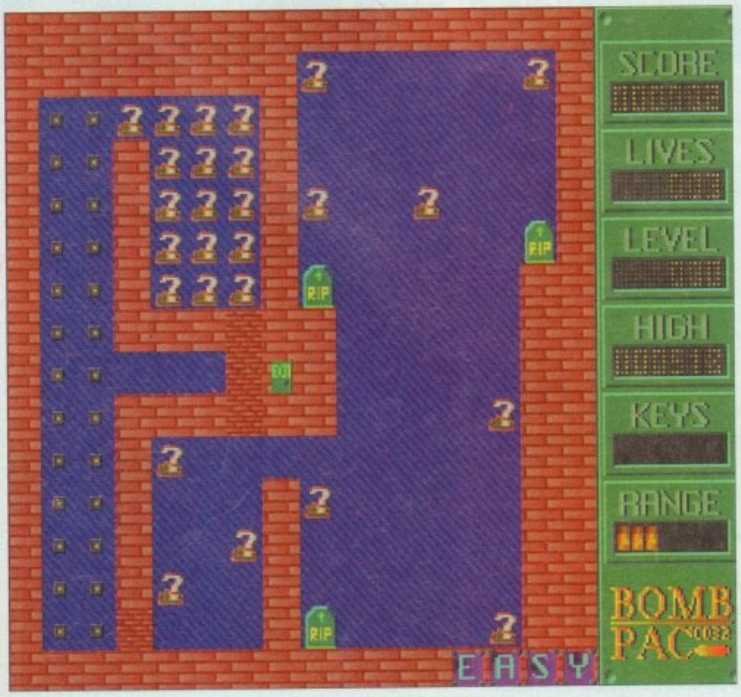
I say 68000 as I'm assuming you're using an A500 or A600, but if you're lucky enough to have an A1200 or above then your Amiga will be running a much faster 68020/30/40 processor.

Anyway, back to the subject – we use the copper to set up the screen, which involves setting all of the relevant registers defining the size of the screen, how many bitplanes it will have (0 to 5), whether it'll be lo-res or hi-res and so on, and of course setting the colours.

The copper can do a lot more than just this – it can set the blitter, or call an interrupt for instance, but we don't need it to do any of that for our little game.

All right, so now we've got the copper using our copper-list, and that sets up the screen.

With every frame (50th of a second) we want to call all the necessary routines to read the joystick and adjust Pacman's co-ordinates/direction accordingly; draw the Pacman; test if he's eaten any little dots up and thus increased the player's score; also test if there are any dots left (if not then that's the end of



You might not be coding games like this right away, but with assembler you have the potential to

the Pac

that level). Also, we must move the ghosts and test if a ghost has run into Pacman – if so, the player loses a life. That's the main routines, though there are more, like printing the score, and we've got to allow for Pacman to eat one of the power-pills, when he becomes able to eat the ghosts. It all sounds complicated, but if we take each routine in turn and break it down into what we have to do it becomes easier.

So we have a game loop that first of all waits for a scan-line near the bottom of the screen, then calls all of the routines in turn, and finally tests if the Esc key has been pressed.

If not, it branches back to the top of the game loop again, but if Esc has been pressed the program shuts down and returns control to CLI or Workbench or whatever the system was doing before the game was loaded.

It is quite an easy task to free the system; we call the opposite function to forbid permit which turns multitasking back on again; we shut any libraries we've opened; and if we've allocated some memory for screens (which we have in this case), we call the freemem function in the exec-library.

Then all we have to do is restore the old copper-list, the address of which we saved earlier, then an rts instruction, and that's it!

That just about brings us to the end for this month, but if you load up the source on this month's CoverDisk, assemble it and run it you should see a blank screen. Wow! Then if you press the Esc key it should return you to the assembler. OK, so it's not much to look at right now, but just wait until we get started on the rest of the routines.

COMMENTS

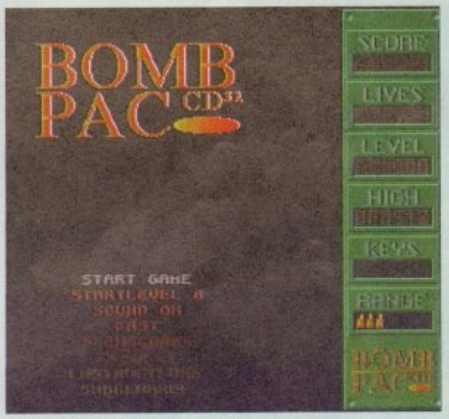
If you're a beginner then load up the source and look through it. I've commented just about every line so you should be able to follow what's going on. Even if you don't have an assembler you can load the source up into any word-processor, or just TYPE it out.

I'd advise you to play around with the source, change a few things, then assemble and run it – it might crash your Amiga, but just remember you can't do it any harm.

For example, if you alter the routine which clears the screen by making it fill the memory with a value other than zero, the screen won't be blank but instead will be filled with some data, so change the line moveq.b #0,d1 to moveq.b #5,d1 or moveq.b #%11110100,d1.

Then try changing the colours, colour 0 is the background colour so if you change it from $000 to $f80 the screen will become orange!

● *Next month I'll explain how to get our main character, the little yellow blob known as Pacman moving around the screen. Till then happy coding!*



This needn't be more than a few simple graphics and and an open screen

The basics of assembler

I'll just outline some of the basics though. The Amiga has eight data registers (d0 – d7) and eight address registers (a0 – a7, although a7 shouldn't be messed with as the system uses it as the stack pointer). As the names suggest, data registers hold an item of data, such as a number, and address registers hold an address in memory.

In 68000 machine code, you can work with bytes (eight bits of data), words (two bytes or 16 bits of data) or longwords (two words/four bytes = 32 bits of data).

A bit is either a 0 or a 1, and if you know anything about binary you'll know that therefore a byte can hold a number between 0 and 255 (2 to the power of 8 = 256), a word can hold a number between 0 and 65,535 and a longword can hold a number between 0 and 4.3 billion!

I bet you really wanted to know that, didn't you? You don't really need to know all of this, but it helps to understand what bytes, words and longwords are and why they are used. The default size is a word, though addresses have to be longwords.

After most instructions you put on a suffix to tell the assembler which size you are working on (.b = byte ,.w = word and.l = longword) eg move.b #5,d3 moves the number five into data register three as a byte.

However, move.b #500,d3 would give you an error when assembling it as the value 500 is too big to be stored as a byte, and you'd need to change that line to move.w #500,d3.

As I've said, addresses need to be worked on as longwords, so if you've got a table of values in your source after the label sine_data then to load this address into data register one you would use the line move.l #sine_data,d1. If you wanted to point address register 1 at sine_data though you would use the line lea sine_data,a1 (lea is short for Load Effective Address).

To identify a number in assembler it must have a # before it. Assemblers support four number systems – the default is decimal, e. move.w #32,number; alternatively you could use hexadecimal (base 16), which is used a lot machine code like in copper-list wait instructions. It's identified by a $ before it, eg move.w #$20,number.

The last two number systems are binary (base two), which is identified by a % sign before it, and octal (base eight), with octal numbers following a @ character.

I know all of this must sound a bit complicated now, and you're probably just about to turn the page over to read the reviews, but believe me – after a while it'll all become second nature.

There are quite a few instructions in machine code, but I'll just quickly explain some of the main ones – MOVE moves a number from one location to another as you've seen before.

You can perform all of the main mathematical operations in assembler with the instructions ADD, SUB, DIVS and MULS. If you've ever used Basic you may remember the instruction GOSUB for GO to SUB-routine; well you can do the same in machine code with the instruction BSR for Branch to Sub-Routine eg bsr print_letter.

At the end of the sub-routine you put an RTS command for ReTurn from Sub-routine. Similarly you can branch to another part of code with the BRA instruction, eg bra start_game.

Now that is the basics, like I've said before I think the best way for you to learn is to go along with what I'm doing and pick it up as you go.

United Public D

The innovators

Look out for the CLR logo!

Most CLR titles on A1200!

.. The Central Licenseware Register ..

Most CLR titles ok on A1200!

Commercial Quality programs at a PD price!

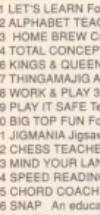
CLE02 TOTAL CONCEPTS GEOLOGY Thit title is the second in the series of quality programs by Chris hill, using the GoldDisk Hyperbook system, it will guide you and your children on an interactive guided tour through the incredible world of volcanos, rocks and minerals. Two disks only £4.50. +

CLE03 TOTAL CONCEPTS SOLAR SYSTEM Now our most popular title ! This one invites you to learn all about the solar system, with information on all of the planets & systems with pictures supplied by Nasa, this is a superb educational package for children & adults. This title is so big it is supplied on Three disks and is priced at only £5.50. +

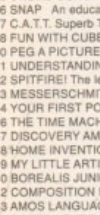
CLE05 A-CHORD So you want become the next Eric Clapton then this is just what you need ! This program will teach you nearly every single guitar chord including fingering techiniques, it will even play the chords using the amigas built in sound chip. A must for every single guitar player beginner and experts alike. Price £3.50 +

CLE15 FAST FRET By Keith Klatworthy, this program is a guitar scales tutor, the very thing for the budding lead guitarist! Will play the scales through the Amigas sound chip with ajustment of speed for every level of skill required! There are many exercises in many scales so you too can become the next rock legend! Supplied on one disk priced £3.50. +

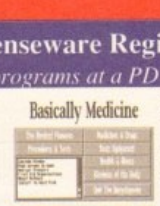
CLE029 PREHISTORIC FUN PACK This is a superb title containing four fun dinosaur games, Dinoslider a tiles puzzle game, Dinosaw is a jigsaw money game. Snakes & caves is the old favourite snakes & ladders, and Eggstinct is a fun egg collecting game! Will keep the kids amused for ages! 1 disk £3.50.+



CLE035 TOTAL CONCEPTS SOLAR SYSTEM 2 In this sequel to our most popular title, Chris Hill brings you the very latest on the Solar System! All the very latest planetary missions are covered & if you thought the images in TC! Solar System were good wait until you see these 40+ images! This is a must if you have TC! Solar System. Supplied on 3 disks only £5.50.+



CLE049 TOTAL CONCEPTS DINOSAURS 3 Is the latest TC! to join this exellent series & uses a new layout giving you a dino image & info buttons onevery page! It includes the new superstar of the dino world Velociraptor. If you are at all interested in Dinosaurs this is a must to complete your Dinosaur library!! Over 30 images supplied on 3 disks only £5.50.+



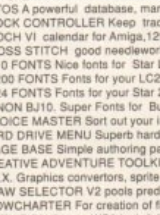
CLE41 BASICALLY MEDICINE A title written by members of the St John's Ambulance brigade, this is a superb title covering Diseases,treatment, Medicine & Drugs, Health & Illness, Basic equipment needed & the medical pioneers who helped create modern Medicine! A really useful title. Comes on two disks 4.50. +

CLE051 PAINT PASTE & DRAW This is a stunning drawing/colouring book, containing lots of background pictures, brushes to paste on, plus editor to design your own , you can even add your own artwork to the picture. A superbly presented program, this one is a must for young children! 1 disk £3.50.+

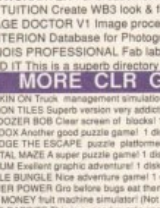
CLE54 TITANIC Yes, a book covering one of the most famous of all passenger ships The Titanic and its fateful maiden voyage. This title is literally crammed with facts and figures on one of the most fascinating ships of all time, a ship which was thought to be unsinkable! Comes on 2 disks and is priced at £4.50. +

CLU03 TYPING TUTOR A program here now for all you budding office clerks, learning to type can be a real pain, lessons cost a fortune, but not when you have an amiga ! This program will take you step by step through a full typing course, showing where to place your fingers and lots more. Before long you'll be able to type as fast as I can ! Price £3.50 ←

CLU032 POWERTEXT 2 This is a superb & powerful wordprocessing program, featuring embedded commands, automatic saving, Mail merging, built in spelling checker, user definable function keys, wordwrapping & much much more! You will probably never need any more than this ! Needs 1 mg of ram. 1 disk £3.50.+



CLG041 F1 RACER This is a very professional game, 3d graphics in a Formula one type vein as viewed from the driving seat. Speed is subject to the speed of your machine (it really zooms on an Amiga 4000!) Lots of fun for anyone who likes driving games with super graphics & sound! Very impressive game . 1 disk £3.50. +



CLG042 CRYSTAL SKULL This was written as a commercial release but was never released! It is a full 3d role playing "Dungeon Master" type game, speak to passers by, kill them, investigate any one of 4 pyramids with all its ghosts & goblins. This will keep up your interest for ages! 1 disk £3.50.+

MORE CLR EDUCATIONAL!

1 TOTAL CONCEPTS DINOSAURS Superb book! 2 disks 4.50+
7 TOTAL CONCEPTS FRESHWATER FISHING 2 disks 4.50 +
8 NIGHT SKY Exellent guide to the stars. 1 disk 3.50. +
9 WORDS & LADDERS Good spelling program. 1 disk 3.50.+
2 BASICALLY AMIGA guide to Amigados! 3 disks 5.50. +
1 LET'S LEARN For children of 5-7 years. 1 disk 3.50. +
2 ALPHABET TEACH spelling program for the kids!1 disk 3.50+
3 HOME BREW Create your own brews! 1 disk 3.50. +
4 TOTAL CONCEPTS ECOLOGY Learn ecology 3 disks 5.50. +
6 KINGS & QUEENS A history lesson! 2 disks 4.50.+
7 THINGAMAJIG An electronic jigsaw, 1 disk 3.50. +
8 WORK & PLAY 3 educational programs: 1 disk 3.50. +
9 PLAY IT SAFE Teaches safety in the home, 1 disk 3.50. +
0 BIG TOP FUN Four programs 1 disk 3.50. +
1 JIGMANIA Jigsaw solving & construction set! 1 disk 3.50! +
2 CHESS TEACHERteach chess in a fun way! 1 disk 3.50. +
3 MIND YOUR LANGUAGE improve speech 1 disk 3.50. +
4 SPEED READING Tests your reading speed 2 disks 4.50. +
5 CHORD COACH This is a superb Piano Tutor, 1 disk 3.50. +
6 SNAP An educational game for languages, 1 disk 3.50. +
7 C.A.T.T. Superb Tarot reading program. 2 disks 4.50! +
8 FUN WITH CUBBY 6 superb games for kids! 1 disk 3.50.+
0 PEG A PICTURE Make pictures with pegs 1 disk 3.50. +
1 UNDERSTANDING AMOS(NEEDS AMOS) 2 disks 4.50. +
2 SPITFIRE! The legendary WWII fighter! 2 disks 4.50.+
3 MESSERSCHMITT BF109 And the German! 2 disks 4.50.+
4 YOUR FIRST PONY All you need to know! 2 disks 4.50.+
6 THE TIME MACHINE Teaches kids to tell time, 2 disks 4.50.+
7 DISCOVERY AMERICA Learn about the USA! 1 disk 3.50.+
8 HOME INVENTIONS inventions since 1750. 2 disks 4.50.+
9 MY LITTLE ARTIST colouring book Needs 1mg 2 disks 4.50.+
0 BOREALIS JUNIOR Drawing for young children 1 disk 3.50.+
2 COMPOSITION Photograph Tutorial disk. 1 disk 3.50.
3 AMOS LANGUAGE QUIZ Helps learn Amos. 1 disk 3.50+
4 PORTRAITURE 2nd photo tutorial program. 1 disk 3.50+
5 FUN WITH CUBBY 2 Another 7 fab kids games! 1 disk 3.50+
6 BASIC HUMAN ANATOMY Good for education 1disk 3.50.+
7 SEA SENSE Learn all about boats! 1 disk 3.50. +
8 ROCKET MATHS Easy maths for kids! 1 disk 3.50.+
0 DRATV2.4 Runecaster+ Translator, needs1.5mg 2 disks4.50+
2 TELL THE TIME Just what the kids need 1 disk 3.50.+
3 LET'S LEARN 2 Super early learning disk! 1 disk 3.50+
5 BASICALLY BASIC Learn Basic programming 1 disk 3.50.
5 BASICALLY CHEMISTRY A good Chemistry Tutor! 1 disk 3.50.

MORE CLR UTILITIES

1 VIDEO TITLER Create video titles! 1 disk 3.50! +

CLU04 ALPHAGRAPH for producing Bar & Pie charts etc! 3.50. +
CLU06 SUPERSOUND V4.7 Superb sampling software 3.50.
CLU10 POWER ACCOUNTS account statements, etc 3.50.+
CLU11 CALCV1veryuseful spreadsheet program! 1 disk 3.50. +
CLU12 VIRTUAL WINDOWS Notebook Address book! 1 disk 3.50.+
CLU13 DATOS A powerful database, many features. 1 disk 3.50. +
CLU14 STOCK CONTROLLER Keep track of stocks 1 disk 3.50. +
CLU15 EPOCH VI calendar for Amiga,1299 yr diary 1 disk3.50.+
CLU16 CROSS STITCH good needlework program,1 disk 3.50 +
CLU17 LC10 FONTS Nice fonts for Star LC10 printer! 1 disk 3.50.+
CLU18 LC200 FONTS Fonts for your LC200 printer! 1 disk 3.50. +
CLU19 LC24 FONTS Fonts for your Star 24 pin printer.1 disk 3.50 +
CLU20 CANON BJ10. Super Fonts for Bubblejet 1disk 3.50+
CLU21 INVOICE MASTER Sort out your invoices! 1 disk 3.50. +
CLU22 HARD DRIVE MENU Superb hard drive utility! 1 disk 3.50.+
CLU27 IMAGE BASE Simple authoring package 1 disk 3.50.+
CLU28 CREATIVE ADVENTURE TOOLKIT Needs 1mb chip . 3.50+
CLU29 G.F.X. Graphics convertors, sprite editors etc! 1 disk 3.50+
CLU30 DRAW SELECTOR V2 pools prediction prog 1 disk 3.50+
CLU31 FLOWCHARTER For creation of flowcharts! 1 disk 3.50+
CLU33 AM TUITION Create WB3 look & feel progs 1disk 3.50+
CLU34 IMAGE DOCTOR V1 Image processing 1 disk 3.50.+
CLU35 CRITERION Database for Photographers etc1 disk3.50+
CLU36 ILINOIS PROFESSIONAL Fab labelling system 2 disks4.50
CLU37 FIND IT This is a superb directory utility! 1 diisk 3.50

MORE CLR GAMES

CLG05 TRUCKIN ON Truck management simulation 2 disks 4.50 +
CLG08 DRAGON TILES Superb version very addictive 1 disk 3.50 +
CLG12 BULLDOZER BOB Clear screen of blocks! 1 disk 3.50 +
CLG13 PARADOX Another good puzzle game! 1 disk 3.50 +
CLG15 SPLODGE THE ESCAPE puzzle platformer 1 disk 3.50+
CLG16 CRYSTAL MAZE A super puzzle game! 1 disk 3.50.+
CLG17 IMBRIUM Exellent graphic adventure! 1 disk 3.50.+
CLG20 JUNGLE BUNGLE Nice adventure game! 1 disk 3.50. +
CLG21 FLOWER POWER Gro before bugs eat them! disk 3.50+
CLG24 EASY MONEY fruit machine simulator! (Not dos 2 or 3) 3.50.
CLG25 WHITE RABBITS This is a good puzzle game! 1 disk 3.50. +
CLG26 MONSTER ISLAND Dungeon Master game! 1 disk 3.50.+
CLG28 TIME RIFT Game played over 4 time zones! 1 disk 3.50.+
CLG35 OG Prehistoric caveman rescues girlfriend! 1 disk 3.50.+
CLG39 CYBALLS Steer orb through a vast maze! 1 disk 3.50.+
CLG40 TRAX A fruit machine with a difference! 1 disk 3.50+
CLG43 PIC IT Trivia game for 2-5 players. 1 disk 3.5+
CLG44 VIKING SAGA Graphical strategy game. 1 disks 3.50+
CLG45 KNIGHT FIGHT 2 player martial arts game. 2 disks 4.50+
CLG46 ARCHIPELAGOS CAMPAIGN Conqueror the world! 1 disk 3.50+
CLG47 KIDS FUN PACK 3 great kids games 1 disk 3.50+
CLG48 THE LOST PRINCE An exellent graphic adventure 2 disks 4.50+
CLG49 SPACE POWER Gravity type shoot em game 1 disk 3.50+
CLG50 HAIRPIN 2 Overhead view racing game. 1 disk 3.50.+
CLG51 TEN PIN BOWLING Ten pin bowling & Logic circuit 1 disk 3.50.+
CLG52 ADVENTURE CREATOR Make your own adventures. 1 disk 3.50.+

BOULDERDASH GAMES
We now have over 100 (YES 100!!!) Boulderdash games in this mammoth collection. All work on any Amiga 500, 600 or 1200!!
BG001 EMERALD MINES 01
BG002 EMERALD MINES 02
BG003 EMERALD MINES 03
BG004 EMERALD MINES 04
BG005 EMERALD MINES 05
BG006 EMERALD MINES 06
BG009 EMERALD MINES 09
BG010 EMERALD MINES 10
BG011 EMERALD MINES 11
BG012 EMERALD MINES 12
BG013 EMERALD MINES 13
BG014 EMERALD MINES 14
BG015 EMERALD MINES 15
BG016 NO ONE MINES 01
BG002 NO ONE MINES 02
BG003 NO ONE MINES 03
BG021 NO ONE MINES 06
BG022 NO ONE MINES 07
BG023 NO ONE MINES 08
BG024 NO ONE MINES 09
BG025 NO ONE MINES 10
BG026 NO ONE MINES 11
BG027 NO ONE MINES 12
BG028 NO ONE MINES 13
BG029 NO ONE MINES 14
BG030 NO ONE MINES 15
BG031 EASY RUPPLE MINE
BG032 RUPPLE MINE 1
BG034 RUPPLE MINE 3
BG035 RUPPLE MINE 4
BG036 RUPPLE MINE 5
BG039 DOWN UNDER MINES 3
BG040 DOWN UNDER MINES 4
BG041 DOWN UNDER MINES 5
BG042 DOWN UNDER MINES 7
BG046 DOWN UNDER MINES 10
BG047 DOWN UNDER MINES 11
BG048 DOWN UNDER MINES 12
BG049 DOWN UNDER MINES 13
BG050 DOWN UNDER MINES 14
BG051 RECYCLED MINES 01
BG052 RECYCLED MINES 02
BG055 RECYCLED MINES 05
BG056 RECYCLED MINES 06
BG057 EAT MINES 01
BG058 EAT MINES 02
BG060 MARATHON MINES 02
BG061 MARATHON MINES 03
BG062 OZ MINE 01
BG063 OZ MINE 02
BG064 VENOM MINE 01
BG065 VENOM MINE 02
BG066 DE BOND MINE 01
BG067 DE BOND MINE 02
BG068 DE BOND MINE 03
BG071 DE BOND MINE 06
BG072 EMERALD RUNNER 01
BG073 EMERALD EATER
BG074 EMERALD HEAD
BG075 GOLD CAVES
BG076 MORE GOLD CAVES
BG077 PRO ICE MINE 01
BG078 PRO ICE MINE 02
BG079 ACE MINE 01
BG080 INTO THE HISTORY HOLE
BG081 INTO THE MYSTERY MINE
BG082 LADYBIRD MINE KIDS
BG083 BABY GHOST MINE 01
BG084 BOULDERDASH 64
BG085 BOULDERDASH CONSTRUCT KIT
BG086 BOULDERDASH COLLECTION 01
BG087 PRO BOULDERDASH 01
BG088 OFFICIAL BOULDERDASH
BG089 WONDER MINE
BG090 POCH MINE
BG091 EXERTION 01

ASSASSINS GAMES PACKS

The best selection of PD games ever assembled anywhere now all autoboot on A1200! (though not all games will run)Something for everyone!

ASI 1 Tanx, Rollerpede, Avaatrs Amigonds etc!+
ASI 2 Invaders,Bally 2,Missile command etc!+Y
ASI 3 Megaball & Drip Superb gamepack! +Y
ASI 4 Frogger Go Moks,Cracker Jumpy etc!+
ASI 5 Raid, Go Lordy & Retaliator+Y
ASI 6 Pacman Downhill,challenge Wellbris etc!+
ASI 7 Moonbase, Trix,Nightworkx Classferrunner+
ASI 8 Asteroids,Ball,Snakegol & Numbers!entfet!+Y
ASI 9 Features Battle pong & Blizzard! + Y
ASI 10 Escape, Pipeline, Pickout & Sys!+
ASI 11 Tetris, Cannon,.Reversi Towers & Trippin+
ASI 12 Llamatron, Car, Powerpong. XPI, Fab!+
ASI 13 Twistris, Squashle,Block it,Ball etc!+
ASI 14 ChinaChallenge2 & Amiga Columns!+Y
ASI 15 Battlecars Letitris & Mastbatroove!Y
ASI 16 Wastelords, Mission X,Deltorrus,Pacman +Y
ASI 17 Tetrcat, Defender, Jetmar Bugblaster+Y
ASI 18 Henry in Panic Skyflyer Omega race!+ Y
ASI 19 Growth,Frantic/Freddy,Bipplane & more!+NOT600
ASI 20 Microbes Hollywood trivia Coin drop +Y
ASI 21 Zoos Totris Battlements & Dragonslieve+Y
ASI 22 Lemmingoids,Wizzys quest Duel Mouthman+Y
ASI 23 Quick mercy,BIP,Interlevel Armadius+
ASI 24 Revenge of camels Dax Croak 3dmaze etc!+Y
ASI 25 Mr Brick,Copper,Interovids,E Type+Y
ASI 26 Supergunman 92 Smasles Asbido System 4etc+
ASI 27 Addictive card games. Really good!+Y
ASI 28 Doody, DyMario, Invaders2, Madbomber2+
ASI 29 DOG, Rotrs, Nova, B-Ball, Atm, Quadrix+Y
ASI 30 Bounce & Blast, Total Fire Tank attack!+Y
ASI 31 Acumzat,Crazy pipe, revolution etc!+ Y
ASI 32 Blob, Secret one & Firefighter+Y
ASI 33 Hyperball & Warl 2 good games+Y
ASI 34 Trailblazer, Yelp, Qbic Rushout+ Y
ASI 35 Pong,Snakepit,Cybernetics Jump n roll!+Y
ASI 36 Mother lode, Wonderland, Kong Tactis!+Y
ASI 37 Klakeris, Ghostship, Pacer etc!+Y
ASI 38 One on One,Baldy,Skyflyer2,Trumpeter!Y
ASI 39 Lots of card games on this disk! +Y
ASI 40 Dish full of sliding puzzle games!+Y
ASI 41 Pacman deluxe, Meltdown Leap II etc+
ASI 42 Gridlogs, Intader alert Dogs in space!+
ASI 43 Interlock Roulette Orxonbello etc!+Y
ASI 44 Wildcat/Mouse Impossible,Blitz etc+Y
ASI 45 Dirtz,Puchnose,B-Castle Teserac etc+Y
ASI 46 Amiga Q, City,Checkers, Ooch etc! + Y
ASI 47 Elevators, Farmyrv,Crave,Arena! + Y
ASI 48 Feast to point, Psycho sumo etc! +Y
ASI 49 Deathbringer in space See 1+2 etc!+Y
ASI 50 Euphorizer,Roach Mozzi,Bakters gravel +Y
ASI 51 Lazers, Fighting Warrior Shapes! +Y
ASI 52 Rockslide, Mouldman, & Nd' +
ASI 53 Versus Invaders,Matrimonial etc! + Y
ASI 54 Scramble,Screen II & Car Wars+ Y
ASI 55 Ch-ris, Pacatac & Asteroids! + Y
ASI 56 Stormeagle, Extreme Violence & Tilze!+Y
ASI 57 Poo-pea Dominoes Dizzy diamonds Squirre+Y
ASI 58 Super raid 4 Magnatron & Maexsact!+Y
ASI 59 Turbo thrust GX200 & Leedings!+Y
ASI 60 Pipe master2 Alien Hunter & Checkers! +Y
ASI 61 Rattlesnake Running Chaser Scud Master+Y
ASI 62 Pipeline2 Mazeman & Up and Down ! +Y
ASI 63 Nastiles Frenzy & Drive It!! +Y
ASI 64 Oblivion(fab!) Breakout con kit etc!+Y
ASI 65 Parasnids Chess Word Puzzle Word search+Y
ASI 66 Cow wars Astrosmrrzid & Asteroids! +Y
ASI 67 Siege of the Beast,E Type II & Vektor!+Y
ASI 68 Demolition Mission,Bounder & Atoms!+Y
ASI 69 Klondike,Celestial Asphalt Bridge etc!+Y
ASI 70 Digital Tetris, Wangle & Tetris pro+Y
ASI 71 Numeris, Battleships & Vs Tanks! +Y
ASI 72 Escape pte, Bodderdestroy 12000 Card!+Y
ASI 73 Lexess, Concentration & Challenger!+Y
ASI 74 Crazy pipes II,Hombjacky & Cruiz! +Y
ASI 76 Gnu Chess, Chess & Go!+ +Y
ASI 77 Balloonacy, Cliff banger & Descender! +Y
ASI 78 Little Boulder, Headgames Fruit Panic! + Y
ASI 79 Grey Attack,Bodderbolt collection II & Atoms! +Y
ASI 80 Army Miner Flip it,Golf The Gallows etc +Y
ASI 81 Atmos Defence, Thunder Tron & Gerpunshit! +Y
ASI 82 Artillerys Shuttle run & Arcade Volleyball+Y
ASI 83 Loadsamoney, Pong & Spidercards!! +Y
ASI 84 Enigma, Arkaboo & Zerbork! +Y
ASI 85 Paradox jets, Matchcards,Rubik & Bagitmas! +
ASI 86 Smurfhut,Lords of Host,Legend of Lothian.+Y
ASI 87 Aztec Challenge,Jonas Fullstrand & Landminer+
ASI 88 Defender, Relayer & Mosaic! +Y
ASI 89 Megaball 2.1, X fire and Clando!+Y
ASI 90 Flashbiter, Startans & Minefield! +Y
ASI 91 Rotox, Matrix & Spectrum! +Y
ASI 92 Bill, Obidos, & Solitaire Sampler! +Y
ASI 93 Smash bang wallop, Mr Munk & Alien bash!+
ASI 94 Super skoda challenger,Merchantsol & Giddy! +
ASI 95 Premier pics,Tangle,Bop & Flop & Super league man+
ASI 96 Dungeon Flipper,Backgammon Tazible tots rastertbloc+
ASI 97 Bunnybloo,Mutants from Mars, New stabb city!+Y
ASI 98 Skychase The Phone company & Nestor cards! +Y
ASI 99 Orbit, Paranemnet, Space Wars & Org! +Y
ASI 100 Bloadrunner, Patience & Monster! +Y
ASI 101 Meltdown, Paragon Boomerang & Rothello! +Y
ASI 102 Fruit Salad, Rebound & Pacsire! +Y
ASI 103 The Lost Gnome, Wacky wabbit & Megaracel+Y
ASI 104 Wooden Ball, Operation meteor & Pork a pork!+Y
ASI 105 Particle man,Ranremy & Desert defender! +Y
ASI 106 Stratos,Cosmotrols II Willy warren & Macro rearket!+
ASI 107 Serene III, 4 row 3d Equilog & Yacht C ! +Y
ASI 108 Strikeball, Ringwar, Four in a row & Obessi! +Y
ASI 109 Psyco Hat,King bubble,Deluxe bearing Thrallbound+
ASI 110 Space rescue Tiles Zerg & Huskerosz! +Y
ASI 112 Thunderton II Aliens Tron & Step 2! +Y
ASI 113 White rabbits preview,Trek 1993 & Jumpsy!!! +Y
ASI 114 International Cricket pre,Insectoids II & Yum yum! +
ASI 115 Star trek shoot up,Egyptian run Slime line & Shark!+Y
ASI 116 Blue Diamond Tech & Sorry! +Y
ASI 117 AirWarrior, Triple Yachtzee & Yoopz! +Y
ASI 118 Zombies, Annyzinnes 14 & The last Tetris! +Y
ASI 119 Bouldercollection,Project Boulderdash,Boulderdash2+
ASI 124 Mr & Mrs, Elevation II & Haser backgammon! +Y
ASI 125 Namegame, Marbleslide & Snake! +Y
ASI 126 Short one, Quasion Kid & Dodge Commander! +Y
ASI 127 Shanghai 93, Lazer Zone & Oso! +Y
ASI 128 Space Invasion,Delexe pacman1.4& Solarsys wars+Y
ASI 130 Chan Reaction, Bomb rabbit,Reporticer & Cube.+Y
ASI 134 Cross circuit, Fwuff & Circuit wars! +Y
ASI 135 Gassmon 1.3,Ack-Ack, Pipeline3 & Tetris! +Y
ASI 137 Blockter, Escapele & Squigz! +Y
ASI 138 Galactrol, Screched Tanks & Air hockey! +
ASI 140 Fatal Mission II,Chronic Indighog Megaworm+Y
ASI 141 Black Gold, Reversi II & Cold Comfort! +Y
ASI 142 Rueda, Galaxy 93 & Courtroom! +Y
ASI 143 Intense, Xatoris & Pontoon (cards). +Y
ASI 144 Brain abuse,Nibbler,Rebelstar & Cube.+Y
ASI 145 Pazzword, Kung Fu Charlie & Super Pong! +Y
ASI 146 Entity,Battle cars II,Amsterminal & Classic solitaire+Y
ASI 147 Backgammon Deluxe,Tats Tomb,Mancala & Parastack!
ASI 148 Pollyroot!,Nostalgicure & Megarinid! +Y
ASI 149 Gladrick, Web2 & Eric watch your step! +Y
ASI 150 D-Solve, Dot to dot, & Tactik tank. +Y
ASI 151 Krillian Incident,Caffeine free & Zyrad. +Y
ASI 152 Klawz,Dicutor 2 & Big will & Sticky Trolls+Y
ASI 153 Exit 13 & Battle game! +Y
ASI 154 Wackman, Bobs Garden & Kaboom. +Y
ASI 155 Megblock, Digger & Crazy clock. +Y
ASI 156 Darts,Quackers & Karate Champ.+Y

LATEST ASSASSINS
Always in stock. We currently have from 1-158 in stock!

COMPTECH PRO COMMERCIAL CLIPART

This is a brand new range of clipart designed exclusively for UPC! These images are of very high quality and detail and are priced at 3.50 per disk! All images are in IFF format and are therefore compatible with most packages! PC versions available!!!

CT001 TRIASSIC DINOSAURS CLIPART The first age of Dinosaurs! only 3.50!+
CT002 JURASSIC DINOSAURS CLIPART 1 Suberb quality clips! only 3.50+
CT003 JURASSIC DINOSAURS CLIPART 2 More super Jurassic art! only 3.50+
CT004 CRETACEOUS DINOSAURS CLIPART 1 This is T rex's era! only 3.50!+
CT005 CRETACEOUS DINOSAURS CLIPART 2 Triceratops, T rex only 3.50!+

UTILITIES

PU002 A-GENE Good geneology program + Y
PU004ab A64 EMULATOR NEW VERSION 2.0 (2)
PU005 AMATEUR RADIO 1 Interest in radio hams + Y
PU012 ASI GRAFFIX UTILS graphics convertors etc+Y
PU013 ASI BOOT UTILITIES bootblock utilities + Y
PU021 C-LIGHT RAY TRACER Good programs+ Y
PU022 CHEMESTHETICS molecule displayer + Y
PU037 D-COPY The best PD disk copier & more + Y
PU038 DBW The freerunner to Bubblejet printer drivers! +Y
PU055 ELECTROCAD DEMO circuit designer +
PU062 GRAPHICS UTILITIES Various misc programs+Y
PU063 GUITAR TUTOR packed with scales 1+ Y
PU064 HARDDRIVE UTILS MRBackup & FixDisk & more+Y
PU065 ICONMANIA Program icons & more 1+
PU066 ICONS Even more packed with icons 1+ Y
PU067 IMPLODER V4.0 Megacrunching Util+ Y
PU069 JAZZSENCH Alternative Wb for 1.2/3 users.
PU071 JFZ CONNECT 92 Modem users comms package Y
PU072 METALLION UTILS Font Editors & more utils+ Y
PU073/76 KING JAMES BIBLE Old&New testaments (4)+ Y
PU078 M-CAD Home design package, Excellent+ Y
PU080 MESSY-SID 2 Read/Write PC Files, Brilliant!+ Y
PU083 MORSE PROGRAMS for the radio hams. Y
PU086/7 NOVA 3D V1.3 (2) Complete & libs+ Y
PU088 NORTH C 1.3 This is the packed 1 disk version!+Y
PU097 PRINT STUDIO V1.25 Prints pics & text etc.+ Y
PU108 POT 3 Simple 3D drawing package Very popular.+Y
PU109/10 (2 disk) Structured clipart for Pprage + Y
PU113/3 SOMETHING FOR NOTHEN Video Utils&Fonts+ Y
PU115 ST-FDC EMULATOR Run Atari ST games!!! 2 Drives
PU121/2 TV GRAPHICS Dpaint backdrops&Fonts+(2) Y
PU124 ULTIMATE ICONS Iconmaster,Iconlab,+ Y
PU129 UTILITIES MANIA A nice paint package+ Y
PU129/30 VIDEO APPLICATIONS Video utilities+ Y
PU139 GRAPHICS CONVERTERS PC>Amiga gfx Converter
PU140 UTILITIES MANIA Misc programs+ Y
PU143 OPTIUTILS 1 Crammed full ! Get it+ Y
PU144 OPTIUTILS 2 Get this disk too ! + Y
PU148 SUPERMASTER V2 PROTOTYPER Wordboard designer Y
PU152/66 CLIPART SET: 15 Disks of the BEST clipart +Y
PU167 MULTI-PLOT Superb data plotting program ! +
PU177/8 ASSEMBLY MASTER Windowbased Assembler+Y
PU180 RICHARD SMEDLEY COMP Val Checker & more.
PU182 STOCK ANALYST Technical analysis program+Y
PU189 TRONIK VIRUS KILLERS 21 virus killers & more!
PU191 LANDBUILDER fractal land generator+Y
PU192 SID 3 Get this ! directory util !!! MEGA!+Y
PU199 SID PRO Dpaint for Sprites & Bobs+ Y
PU200 VIDEO WIPES Magic & fades Dpaint 3/4 +Y
PU200 LITTLEBENCH 1.3 Now for 1.3 owners!
PU202 CYCLOPS Weird Plasma/fractal creator ! +Y
PU203 SDPE 184 utils & clips for Progs Y
PU204 GATOR GRAPHICS Dpaint tutorial disk.+
PU205 PC TASK PC Emulator Now Version 3 VGA! +Y
PU207 MULTISID Combine SID2 & Multidms(PC>AMIGA)+Y
PU208 ASI HANDYTOOLS 3 mega compilation of utils Y
PU209 SID FIND CATALOGUE contains FISH 1 - 880 +Y
PU210 POCO PASCAL Amiga version of this pascal compiler+
PU215 CAPTIONATOR Superb shareware video titling!+Y
PU219 WBHACKS+ collection of hacks for + owners+ Y
PU223 SCOPE 1684 utils & clips for Progs Y
PU229 JPEG 24 bit graphics compression util disk! +Y
PU230 MORE PRINTER DRIVERS new printer drivers!+Y
PU240 FRACTAL SUPERMIX 2 powerful clipart&fractals+Y
PU241 CALORIE BASE Useful for people on a diet!+Y
PU243 ASPICE Circuit analysis program!+Y
PU244 PC TASK 3.1 This is a super database program!+Y
PU245/256 C MANUAL Latest version on 12 disks! (12) +Y
PU262 RICHARD SMEDLEY COMP II Mortgages etc!+Y
PU263 LYAPUNOV Fabulous fractals!+Y
PU272 GOLF RECORDER Database for golf scores!+Y
PU273 PC>>AMIGA Similar to Messycd, + docs!+ Y
PU274 TRONICAD V1.36 Electronic circuit design 1+Y
PU279 V MORPH V2.30 Yes a PD morphing prog!!+ Y
PU282 ASI MULTIVISION 2 Imagelab,Wasp & more,super+Y
PU285 WORKBENCH 3 BACKDROPS Over 1000 ONLY!
PU286 INSCRIPT Program for Video titling! +Y
PU287 NUMPAD Numeric keypad emulation!(600 ONLY)
PU288 ENGINEERS KIT Test your Amiga system! +Y
PU291 1200 WORKBENCH HACKS Workbench 1200 +Y
PU292 1200 UTILS1 Gif & PCX datatypes etc!A must!Y
PU293/317 25 disks of Ham radio software! (25)+Y
PU324 WINEMAKER Database for winemakers! +Y
PU330 SLEEPLESS NIGHTS Utils useful for 1200!Y
PU348 EXOTIC RIPPER V2.10 Soundtracker ripper! +Y
PU348 SPEEDUTILS Fastlas Headclean Snoop & more!+Y
PU349 NOOMM V3.00 The latest version comms disk! +Y
PU351 ASI FIX DISK Get old programs running on dos2/3+Y
PU352 HP DESKJET 500 Bubblejet printer drivers! +Y
PU355 SUPERDARK Superb & unusual screen blanker! +Y
PU357 CANON PRINT STUDIO A must for BJ owners! +Y
PU358 KPK COMPRESSION UTILS Superb compression progs!Y
PU359 PRO PAGE HELP DISK Extremely useful disk!+Y
PU360 WINDBLEND Super effects but 1200 only! Y
PU361 HP DESKJET 500C Bubblejet printer drivers! +Y
PU367 PE PRINT UTILS Lots of useful labelling progs+Y
PU369 TV TITLES DEMO Shareware Titling program! +Y
PU372/3 PARROT SOFTWARE Lots of useful progs (2)+Y
PU374 1200 UTILS 3 More new 1200 utilities!+Y
PU381 SPECTRUM EMULATOR V1.7 Works on ALL Amigas
PU384 THE GENERATOR V2 Superb Fractal generator+Y
PU387 REORG A good disk + Harddisk optimiser! +Y
PU388 1200 HD PREP For all 1200 owners! Y
PU389 HD CLEANER V2.1 Superb hard cleaner+Y
PU393 ASI FIX DISK 2 Second exellent fix disk! +Y
PU394 GRINDER V1.0 Picture file converter! +Y
PU396 BAD APPLE Make unusable disks work! +Y
PU399 AIBB Amiga Benchmark speed tests! +Y
PU400 AMBUSH V1.03 Fix font size problems! +Y
PU420 PHOENIX EDIT Cli/Shell enhancing +Y
PU421 ASI DISK HELPER 1 Diskssilv2.0copy 3.1+Y
PU422 AZSPELL A very good spelling checker!+Y
PU423 NCPRO Fast & more super comms progs+Y
PU424 LIGHTWAVE OBJECTS For lightwave only!
PU425 MAGIC WORKBENCH Unpacks 8 colour icons+Y
PU426 LHARC Archive/extracts many programs (2)+Y
PU427 ASI DISK HELPER 2 More useful utilities+Y
PU429 MAGNUM CREATOR V1.9 Diskmag creator!+Y
PU430 GRAPHICS WORKSHOP Superb graphics+Y
PU435 RUSH A good directory utility program.+Y
PU440/3 IMAGINE OBJECTS & JPEG TEXTURES(6)+Y
PU446 CRUNCHERS 2 (2) different file crunchers!+Y
PU447 MINIMORPH A nice morphing package! +Y
PU448 SPIDERSOFT UTILS Progrey protection etc+Y
PU449/50 DICE 2.5 C COMPILER for programmers (2 Disks)+
PU457 ASI VIDEO TITLERS Super video set. +Y
PU458 ASI WORKBENCH 2/3 UTILS Very useful.+Y

SLIDESHOWS

PS002 ADVANCE HAM Really stunning !+ Y
PS008 AIRFIX SLIDE Pics of fighter aircraft!+Y
PS009 ASTRONOMY SLIDE very impressive!+Y
PS033 GERMAN RAY TRACE Superb See these !+
PS045 ISO SLIDE High quality pictures!+Y
PS056 NEWTEK DYNAMIC HAM 640x512 4096 color pics+
PS062 NW DYNAMIC HAM Nik Williams Superb quality +
PS072 SUPER HAM PICS This is a must-Magic+ Y
PS115 THE GATHERING 93 Stunning pictures here! +Y
PS117/8 NIGHTBREED AGA SLIDESHOW Super(2)1200
PS119 (2) NIGHTBREED SLIDES(2) Superb pictures!1200 only
PS120 KEITH RHODES SLIDE 3 fantasy pics!1200 only Y
PS122 FERRARI AGA great 256 colour pictures!1200only
PS124 TPC AGACAPES Excellent!Not 1.2/3
PS125 REVELATIONS SLIDE staggering quality art+Y
PS127 AKIRA PICS 2 Some superbly drawn pictures! +Y
PS128 MAGIC FACTORY Ray traced trek pics!1200 ONLY!
PS130/1 NIGHTBREED AGA SLIDES Scrummy pics(2)1200.
PS132 HAM TEXTURES 6 super textured backgrounds! +Y
PS133 JURASSIC TEARS Nice Fantasy pictures 1200 ONLY
PS134/7 COMPLETE MANGA Fab colour pics(4)1200ONLY
PS138 STAR WARS SLIDESHOW Nice space pictures+Y
PS139&40 SHED TEARS Nice Fantasy pictures 1200 ONLY
PS141 MAGIC SLIDESHOW2 More Startrek pics1200 ONLY
P

main Distributors

not the imitators !

P S D

CLASSIC CLIPART

Black & White) (Okay on A1200 / A4000.)
The clipart in this collection is very high quality, huge bitmaps, many greater than an Amiga hires screen, for use in Dpaint or DTP packages. each disk autoboots to a slideshow allowing you to view the entire bitmap to moving the mouse! (Prices per disk!)

- ART01 WEDDINGS Super wedding clipart, 2 disks!+
- ART02 HOUSES 2 disks, pictures of mansions etc!+
- ART03 RELIGIOUS 3 disks full of holy clipart!+
- ART04 WOOD AIRCRAFT Wood's war II planes!+
- ART05 MEN 2 disks full of men at work!+
- ART06 WOMEN 2 disks full of women clipt!+
- ART07 KIDS 2 disks containing kids clipart!+
- ART08 BUSINESS Disk full of office clipart!+
- ART09 OFFICE Another office type disk!+
- ART10 SPORT 2 disks Lots of sporting type pics!+
- ART11 SALETIME Many useful logos etc!+
- ART12 XMAS 3 disks of Xmas related pics!+
- ART13 PUNCH 3 disks of cartoon pics!+
- ART14 ANIMALS Fantastic quality pictures!+
- ART15 CATS Only 12 pics but super quality!+
- ART16 SILHOUETTE 19 super silhouette pictures!+
- ART17 SCHOOLS 2 disks of school pictures!+
- ART18 BABIES Clipart on a baby theme!+
- ART19 SPORT 2 disks full of sport pictures!+
- ART20 OLYMPIC Another sport type disk!+
- ART21 MEDICAL 2 disks full of medical clipart!+
- ART22 SEASIDE Pictures from the beach!+
- ART23 DECORATIVE MONTHS 1 for every month+
- ART24 WACKY Funny comic type clipart!+
- ART25 HOLIDAYS Holiday type pictures!+
- ART26 BANNERS 2 disks full of banners!+
- ART27 ART NOUVEAU FLOWERS Floral art!+
- ART28 CHRISTMAS Nice pictures!+
- ART29 FOOD 2 disks on a food/kitchen theme!+
- ART30 COLOURING BOOK Colour in Dpaint!+
- ART31 BIRDS/BEES 2 disks, more than just DTP!+
- ART32 MAC CLIP 2 disks high quality macart!+
- ART33 HORNBACK Nice scenic clipart!+
- ART34 TARTAN Over 30 different tartan designs!+
- ART35 VANITY FARE 2 disks fashion clipart!+
- ART36 HALLOWEEN CLIPART Wierd clipart!+
- ART37 SHOWTIME Dancing, singing etc!+
- ART38 VEGGIES Vegetarian clipart!+
- ART39 FLORAL 14 very detailed pictures!+
- ART40 EASTER 19 super detailed pictures!+
- ART41 DOG WOODCUTS 100+ Woodcut pics!+
- ART42 CAT WOODCUTS Great wildcat pics!+
- ART43 AFRICAN WOODCUTS African animals!+
- ART44 AMERICAN WOODCUTS More animals!+
- ART45 ARTIC WOODCUTS Northern animals!+
- ART46 FARM WOODCUTS Farm animals!+
- ART47 ARMED ANIMAL WOODCUTS Nice pics!+
- ART48 BIRDS WOODCUTS 18th century bird pics+
- ART49 MORE ANIMALS More superb pictures!+
- ART50 ANIMAL LINK ART Varied selection of pics
- ART51 BOTANICAL ART detailed plant pics!+
- ART52 FAMILY SCENES 2 disks of domestic life!+
- ART53 GOLF HUMOUR 2 amusing golfers disks!+
- ART54 SPACE & TRANSPORT On a space theme!+
- ART55 SOFTSCENE2 29 rural scenery pictures!+
- ART56 SPORTS2 More pics on a sports theme!+
- ART57 NAVY Lots of naval type pictures!+
- ART58 TRAVEL 2 disks on a travel theme!+
- ART59 ALPHABET Borders & alphabet clips!+(2)
- ART60 ACCENTS & FLASHES Burst stars+ more+
- ART61 FISH Lots of aquatic pictures!+ 1/2
- ART62 MOTSTUNT 7 More nice scenery pictures!+
- ART63 RESTAURANT 3 disks of Restaurant pictures.3)Y
- ART64 MORE HOLIDAYS Festive holiday pictures! +Y
- ART65 MINI & BIBLE 2 mini disks on a sports theme!+
- ART66 MOSSBURN ANIMALS 32 nice animal pictures! +Y
- ART67 BURCHFIELD KIDS Some nice kids clipart! +Y
- ART68 ALPHABET 3 disks of alphabets & numbers.etc(3)+Y
- ART69 TRANSPORT 3 disks of Cars,Airplanes Ships etc(3)+Y
- ART70 TRUCKS & TRAINS Full of Waggon trains etc! +Y
- ART71 THEWORLDWAR 3 disks of artwork on the world wars!+Y
- ART72 AIRCRAFT 5 disks full of aircraft pictures!(3) +Y
- ART73 BIRDS Songbirds, Birds of Prey & more! +Y
- ART74 BIRDS Birds of the world 2 disks full of pics!+Y
- ART75 HOUSES CASTLES & BUILDINGS Good pics +Y
- ART76 SPORTS-MAC Lots of good sports pictures! +Y
- ART77 CARDS 3 Lots of fantastic clipart! +Y
- ART78 MILITARY 10 disks of military clipart! (10) +Y
- ART79 HOFFMAN GRAPHICS Nice pictures! +Y
- ART80 DISNEY DISNEY Some nice scenes & animals! +Y
- ART81 FARM & HORSES Nice pastoral pictures! +Y
- ART82 SHIPS Sailing & Steam ships! +Y
- ART83 ANATOMY 3 disks of skeletons etc!+Y
- ART84 CAMPING On an outdoor theme! +Y
- ART85 WILDLIFE 3 disks full of wildlife clipt(3)+Y
- ART86 MARINE & AVIATION 2 disks with sea life!+Y

COLOURED CLIPART

This is a superb collection of coloured clipart, mostly in Ham mode (4096 colours), though some is in 16 colours. Can be loaded into Deluxe Paint 4 or any other package accepting Ham pictures!
(OK on 500, 500+, 600, 1200 & 4000!)

- CLC001 MAPS, Algarve - Portugal, autoboots! +Y
- CLC002 MAPS, Brazil - Checkoslovakia, autoboots! +Y
- CLC003 MAPS, Denmark - Grenada , hires maps! +Y
- CLC004 MAPS, Iceland - Illinois, hires maps! +Y
- CLC005 MAPS, India - Luxembourg, hire maps! +Y
- CLC006 MAPS, Macau - Mississip, autoboots! +Y
- CLC007 MAPS, Montana - New Guinea, hires maps! +Y
- CLC008 MAPS, Neutral Zone - Iraq - S Dakota! +Y
- CLC009 MAPS, Senegal - Tuuzav, autoboots! +Y
- CLC010 MAPS, Yanai - Zimbabwe, autoboots! +Y
- CLC011 REPTILES, good pictures, autoboots! +Y
- CLC012/3 ACTORS, famous faces, autoboots! +Y(2)
- CLC015/6 AIRCRAFT & CARS assorted, autoboots! +Y
- CLC018/26 BIRDS 8 disks, Super, autoboots! +Y
- CLC027 CATS, 1-16 Super cat pics,autoboots! +Y
- CLC028/35 DOGS, 1-16 Super dog pics,8 disks! +Y
- CLC036 EXPLORERS 1-13 famous explorers,autoboots+y
- CLC037/40 FISH 1-92 Super pics pictures,(4 disks)+y
- CLC041/51 POWERS 11 disks of flowers!! (11 disks)+y
- CLC052+4 FRUIT 2 disks, Good pics! (2)autoboots! +Y
- CLC055 FRONTIER 1-13 Pioneer pictures,autoboots
- CLC056/7 HORSES 1-16 Great horse pictures!(2) +Y
- CLC058/61 INSECTS Small creatures!(4 disks) +Y
- CLC062/3 INVENTORS 2 disks full (2) +Y
- CLC064/73 MAMMALS Mores animals pictures(8 disks)+Y
- CLC072/3 INSTRUMENTS 4-25 Musical (2 disks) +Y
- CLC074 MILITARY 7-17,& MUSICIANS 1-4! +Y
- CLC075/6 MUSICIANS 5-16 Classical! autoboots! +Y
- CLC076/7 PREHISTORIC Dinosaurs(2) autoboots! +Y
- CLC078/81 PEOPLE Lots of people! (4 disks)+Y
- CLC082/4 PRESIDENTS 1-40 USA presidents,3 disks +Y
- CLC085/7 REPTILES 1-19 Good pics (3) autoboots! +Y
- CLC088 SHIPS 10-33 Marine vessels! +Y
- CLC089 SPORTSMEN Various sportsmen, autoboots! +Y
- CLC091/6 TREES, 6 disks of tree pictures! autoboots! +Y
- CLC097/100 VEGETABLES 1-48 goodpics4disks.wb+y

COLOUR BRUSH CLIPART

Saved as brushes so they can be pulled easily into Dpaint!

- CB001 Lots of brushes on an art & schoolwork theme. +Y
- CB002 Lots of brushes of stores food,garden hirare etc +Y
- CB003 Lots of brushes on a sporting theme (142 brushes) +Y
- CB004 Lots of brushes on a food & confectionary theme! +Y
- CB005 Lots of brushes, 155 pics on a financial theme. +Y
- CB006 Mix of brushes of cute animals! +Y

FONTS (Bitmapped & assignable)

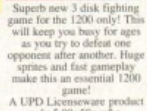
- PU048 DYNAMITE FONTS II CutNPaste fontscreene Y
- PU049 DYNAMITE FONTS More CutNPaste Fonts Y
- PU058 FONTS AND RAM MANAGER BIG video fonts+
- PU059 FONTS & SURFACES Backdrops & fonts+ Y
- PU169 GELIGNITE FONTS CutNPaste fonts+ +
- PU175 GELIGNITE FONTS II Excellent IFF fonts+Y
- PU176 GELIGNITE FONTS III More of above!!+
- PU858 COSMOPOLITAN FONTS (4) Packed with fonts+Y
- PU201 MALICE FONTS Excellent tiny fonts for Dpaint!+Q
- PU226/7 C-EYES FONTS For use in Dpaint, WB, etc.(2)+Y
- PU278 GELIGNITE FONTS IV Yes more IFF fonts!
- PU331/43 COLOUR FONTS(ASSIGNABLE)Dpaint etc(13) +Y
- PU350 FONTFARM Contains 55 large & Small fonts! +Y
- PU390 FONT FARM 2 Lots more IFF fonts! +Y
- PU391 FONT FARM 3 Another disk crammed with fonts+Y
- PU451/2 HARLEQUIN FONTS Hires fonts & textures!(2)+Y

CLASSICAL MUSIC

- PM012 AMIGAdeUS CLASSICAL Evie Kleiner etc. + Y
- PM022/3 CLASSICAL MUSIC Beethoven etc +Y
- PM035 DIGITAL DEBUSSY Fab R Baxter conversions!+Y
- PM036 DIGITAL DEBUSSY! classic Debussy music!+ Y
- PM070 RHAPSODY IN BLUE Played by Rob Buddon +Y
- PM082a/82b VIVALDI - FOUR SEASONS (2) V.Good !+ Y
- PM090/91MOZART HORNCONCERTOS read 1mg chip+ Y
- PM130/32 BACH BRANDENBURG CONCERTOS 1 to 6 +Y 3
- PM150 DESKTOP HARPSICHORD RECITAL Classics! + Y
- PM165/6 NUTCRACKER SUITE Super rendi90n!+
- PM174 CLASSIC 5 DISKS Grieg & Bach classics! +Y
- PM179 SOUL MUSIC Some nice soulful music!(loadwb)+Y
- PM183 CLASSIX GOLD Bach Toccata& Fugue (1mg chip)
- PM184 MOZART FLUTE CONCERTOS 1mg chip! +Y
- PM218 HANDELS FIREWORKS MUSIC (1mg chip) +Y

AMOS PD

APD036 AMOS UPATER LATEST VERSION v1.36 + Y
APD182/3 PIXIE KINGDOM Good exploration game (2) +
APD237 SHAPES Excellent kids game !+Y
APD257 CASSETTE LABELLER + MIKED SOURCE+Y
APD271 WIZARDS DOMAIN graphical adventure+Y
APD341 TOTALLY AMOS Good read for programmers!+Y
APD347 NOTEBOOK & SHOPPING LIST Easy to use !+ Y
APD363 FAMILY HISTORY DATABASE Large version+Y
APD373 COMPILER 1.36 UPDATE. LATEST compiler !+Y
APD431 KARATE WORM II Nice little game! +Y
APD435 PRIVER TEST Test speed of your reactions!+Y
APD442 SUIDESHOW CONSTRUCTION SET V2! +Y
APD451 NODDY 5 PLAYTIME Educatonal demo! +Y
APD452 RAMOS PRO For Amos users! +Y
APD458 TOP OF THE LEAGUE Football manager!+Y
APD466 AMOS PRO UPDATER V1.12 Just in!!! +Y



Superb new 3 disk fighting game for the 1200 only! This will keep you busy for ages as you try to defeat one opponent after another. Huge sprites and fast gameplay make this an essential 1200 game!
A UPD Licenseware product only 5.99+-50p p&p.

GAMES

- PG006 ANTEP & SLOT CARS role playing game+ Y
- PG021 ATIC ATAC Really playable game! + Y
- PG023 BATTLEFORCE strategy war game!
- PG024 BLACKJACK A good card game! +
- PG026 CASTLE OF DOOM Excellent!! Get it + Y
- PG028 COLOSSUS & WORLD Fab adventures !+ Y
- PG031 DARKSTAFF Spec emulated text adventure!+
- PG032 DRAGONS CAVE D&D style game Mega+ Y
- PG034 ETERNAL ROME Strategy & DOMINOES+ Y
- PG046 HACK Great text adventure-introcom style! +Y
- PG047 HOLLYWOOD TRIVIA Nice Trivia Game! +
- PG048 HOLY GRAIL One of the best Text adventures+ Y
- PG054 KINGMAKER A superb text adventure! +Y
- PG059 LORE OF CONQUEST space trading D&D game Y
- PG062 MENTAL IMAGE 1 Gridrunner invaders & rebounds+
- PG063 MERCENARY Classic action-thrus version !! 4! +Y
- PG064 NAPOLEONIC WAR SIMULATOR A strategy game!
- PG068 NO MANS LAND Hi tech war game-shoot em up.. +Y
- PG070 PETER'S QUEST Rescue the maiden platform+
- PG071 POM POM GUNNER Like beach-head on the 64+Y
- PG072 PROPERTY MARKET Become a millionaire !!!
- PG074 RETURN TO EARTH Elite space trading game! +Y
- PG076 SEVEN TILE Speedtrain type game-MEGA!
- PG079 SEALANCE A submarine strategy game +Y
- PG101 THE INSIDER (3) Stocks & shares game
- PG121 AS00+ GAMES PACK (2) games to run on a plus+Y
- PG124 TOTAL WAR This is a good risk type game! +

EDUCATION

- PE001/5 EDUCATION SET science programs for ags 11+ +Y
- PE006 KIDPROG Fab little learning colouring book +Y
- PE007/8 LEARN & PLAY Maths, spelling etc. 5-10 yrs +Y
- PE009 STORYLAND 2 Save toyland from the witch! +Y
- PE010 TOTAL CONCEPTS Maths, Maths, Maths! +Y
- PE011 TOTAL CONCEPTS DINOSAURS Book on a disk+Y
- PE013 SIMON & SPACE MATHS Talking maths program
- PE014 SPANISH - FRENCH HUMAN TUTORS+ Not 600!
- PE016 COLOUR THE ALPHABET learn letters & colours! +Y
- PE019 DUNKS DTP A sort of DeskTopPublisher for kids +Y
- PE021/4 SCIENCE Very good four disk set!+ (4)Y
- PE025 FRACTIONS & SILHOUETTES Good maths tutor+ Y
- PE026 WW 9 FACTS Good historical program!+ Y
- PE027 AMIGA BEGINNER Learn to use your machine+ Y
- PE028 MATHS ADVENTURE Solve questions to progress+Y
- PE030/2 DESKTOP GUIDE TO ELECTRONIC MUSIC! +Y
- PE033 MATCH WITH HUMPTY Match the objects! + Y
- PE034 WORLD GEOGRAPHY Quite good! +Y
- PE035 KIDS DISK! Super to learn reading! +Y
- PE040 HOW THE EARTH WAS MADE My story! +Y
- PE041 SINGALONG NURSERY RHYMES Good fun! +Y
- PE042 CHILDRENS FAVOURITES More nursery fun! +Y
- PE043 PICTURES & LETTERS Learn to read, 1mg chip+Y
- PE045 TOTAL CONCEPTS DINOS 3 PREVIEW Super +Y
- PE047 Ask BACK TO SKOOL1 Style Count & Words +Y
- PE048 Ask BACK TO SKOOL2 Simon Cal maths train etc+Y
- PE049 BACK TO SKOOL3 Treasure search, Alphabet etc+Y
- PE050 THE LITTLE TRAVELLER Learn about countries+Y
- PE052 COMMUNICATE Superb sign language teacher! +Y
- PE053 HWAY CODE QUESTIONS & ANSWERS Useful +Y
- PE054 ARTISTOI Superb shareware art package+Y
- PE055 JUNIOR MATHS Suitable for young children+Y
- PE056/7 READ & LEARN VOL 1 Three little pigs etc+Y
- PE058 WORD FACTORY Learn to spell! +Y
- PE059 JAPANESE TUTOR Learn yourself Japanese+Y
- PE060 IRREGULAR VERBS A good quiz this +Y
- PE061 CHESS TUTOR A simple chess tutor.+Y

AMIGA MUSIC DISKS!

- PM001 100 GREATEST 64 TUNES 100 fab 64 tunes!+
- PM010 AMEGA PARTY WINNERS Four WICKED songs+ Y
- PM016 BEST OF SID Super 64 music!+
- PM058 MAG FIELDS CHIP FESTIVAL Full of chip music+Y
- PM059 MANIACS OF NOISE This is brilliant!+
- PM074 SOUND OF THE 80'S Just got this the mega!
- PM092 PIANO TUNES Nine piano songs- good + Y
- PM096 STAIRWAY TO HEAVEN Rendition of the song+Y
- PM104 300 THINGS TO BEBACK 4 great tracker tracks+
- PM112 TECHOMANIA II 8 essential hardcore tunes+
- PM122/4 PLAYSID 2 (3) You must get this !!!! +Y
- PM128 PLAYSID VOL 3 Fantastic SID collection +Y
- PM155 VINE G-RAVE 5 more good rave tracks!! +Y
- PM176/8 JESUS ON ES Crazy rave music demo! +(2)
- PM179 PLAYSID VOL 4 Four style collection!(not!.3) +Y

ANIMATIONS

- PA039 ERIC-S AMY VS WALKER Cute & sexy! 1.5M Y
- PA040 ERIC-S BATMAN vs WALKER Amusing 1M +Y
- PA042 ERIC-S COYOTE STRIKES BACK 1mg too! +
- PA043 ERIC-S MORE AEROTOONS Very witty !!!+ Y
- PA044 ERIC-S BISTRO 1.5 Mg anim with sound !+Y
- PA053/4 LIGHT CYCLES (2) Tron animation+
- PA065/66 REAL 3D (4) Superb of the program+
- PA071 THE ANTAGONISTS Fab animation +Y
- PA074 THE WALKER vs The Helicopter - Mega + Y
- PA075 THE WALKER vs A2000 A classic ! + Y
- PA086 FRACTAL ANIMATION full screen low fly anim+Y
- PA091/3 GAS TURBINE, STEAM & PETROL ENGINE (3)+Y
- PA094 AMY JOGS,WALKS & SNEEZES by E Schwartz! +Y
- PA095 HOW TO FLY INTO A WALL by Eric Schwartz! +Y
- PA099 ATF AGILITY new ES anim, very witty as usual+Y
- PA100 VTOL CONTEST Check out this new ES anim ! +Y
- PA101 DOLPHIN DREAMS Great Dolphin anim! + Y
- PA103/4 KINGFISHER 2 Superb bird animations!+ Y
- PA106/7 THE JOURNEY Fab fractal pics & anims(2)+Y
- PA118 3 SUPERB ANIMATIONS Synth loaded anims+Y
- PA119 STEAM ANIMATION V2.0 Now with sound! +Y
- PA120 TWO STROKE PETROL ENGINE Super anim+Y
- PA130 HUNDERDIRDS ANIM Mad Scientist anim!! (2)+Y
- PA141 STIRLING II ENGINE Another fab engine anim!+Y
- PA143 XMAS ANIMATION Amusing animation! +Y
- PA149 SPAR TREE 6 Super CD32 advert animation+Y
- PA150 RAGING HORMONE Another funny anim.+Y
- PA151 XWING ANIM Nice star wars animation.+Y
- PA152 NATURAL PHENOMENA Amazing little anim!+Y
- PA154 DAFFY LOSES HIS HEAD Amusing animation! +Y

POWER ANIMATIONS

- PP001/2 ANTI LEMMINGS (2) This is Brilliant! 2M
- PP003 AT THE MOVIES anim of Amy squirrel 1.5M+Y
- PP004/7 AUTOMATED LIGHT (4) Battlestar galactica! 3M
- PP008/10 BUGGERS anim Another great anim!!(3)mg
- PP011/12 DATING GAME (2) Very witty! Get it. 3.5M!
- PP016 GULF WAR Another ES production! Good 2M! Y
- PP021/3 JAMES Another great anim!!(3)mg
- PP025/27 STATION AT KHARN (3) Incredible 2M demo Y
- PP036/7 WALKER DEMO (2) A 2mg version of a classic!
- PP040/43 PLAY ANIMS Another great anim!!(3)mg
- PP044/45 AMY V WALKER II (2) witty ES demo 3M
- PP046 SWEET REVENGE Coyote vsRoadrunner! 1.5mg+Y
- PP050 ROBOTS FIGHTING Wicked Schwartz cartoon+ 2M Y
- PP051/2 CHARLY CAT Super Shwartzike cartoon! 2mg.Y
- PP053/4 CHARLY CAT AT THE BEACH 2nd anim 2mg!Y
- PP057/9 CHARLY CAT CATCHES A CANARY 2mg. 3MG.
- PP060/3 CHARLY CAT MOUSTERMIND Great! 3.5MG.
- PP064 DUNCAN DUNG BEETLE Unusual anim. 2mg
- PP065/6 CHARLY CAT TAKE WALKOUT Latest Charly mg.+ Y
- PP067/9 SPEED LIMIT 3mg motorcycle race! + Y (3)
- PP070/1 LEMMINGS REVENGE amusing anim! 2mg Y
- PP074/6 G.I. JOE Cartoon from charlie cat author! (3)
- PP077/84 THE HAUNTED Tremendous animation,3mg(8)
- PP090/1 ROADHOG ANIM Very funny 2mg animation!(2)Y
- PP092 BOB AT THE PUB Charlie cat again! (2)mg Y
- PP101/4 QUALITY TIME Superb Shwartz 5mg anim (4)!
- PP108/10 CHARLY CAT IN SICKNESS & HEALTH(3)3mg!
- PP111/2 BUGGERUP&SPACEMEN Action (2)mg+
- PP111/8 PRANK ON FURBALL Cat has a pizza! 2mg (2)
- PP119 BAITMASKING Another fun Shwartz anim 2mg(2)Y
- PP120/3 ALIEN ANIMATION Another great anim!!(3)mg
- PP127/30 CHARLY CAT DANDRUFF DUO Amusing (4)3mg
- PP131/2 ON THE GREEN Funny golf animation.3mg
- PP133 CHARLY CAT IN SPACE 3MAG Good, needs 1 mg!
- PP136 ATTACK ANIM Great Gulf type animation!1.5mg Y
- PP137/40 HEADING FOR HOME Rayraced space (4)3mg
- PP141/4 MEAN MACHINE Console battle! MEGA (4)3.5mg

BUSINESS

- PB001 AMICASH bank management program+Y
- PB002/3 ANALYTICALC Superb spreadsheet+ (2)Y
- PB004 ASI LABEL PRINTERS 3 the best+
- PB005 BANKIN control your cheque book! +Y
- PB006 BUSINESS CARD MAKER Nice program+
- PB007 CLERK complete accounts package+Y
- PB008 DESKTOP PUBLISHER Simple to use +Y
- PB009 FLEXYBASE DATABASE Address keeper+Y
- PB011 MSC BUSINESS Gwpinv, Gwpinvoicery list, Calc
- PB013 QED Simple & effective text ed+Y
- PB014 RIM DATABASE Fully relational !!+Y
- PB015 TEXPLUS 3.5 95.00 BEST Wordprocessor +Y
- PB017 VISICALC SPREADSHEET Simple to use+Y
- PB019 BUSINESS LETTERS contracts, letters + more+Y
- PB020 TEXT ENGINE 4.1 THE LATEST Version !!! +Y
- PB022 BBASE II/v1.3 Latest version of super database+Y
- PB023 FORMS REALLY UNLIMITED form creation prog+Y
- PB024 LAST MINUTE TENANTS Just in case !+Y
- PB026 AGRAPH Superb Program graphing data +Y
- PB028 LITTLE OFFICE Intergrated Wpro,Sst,Dbase,Gfx+Y
- PB029 ADDITIONS !!!!!!!! Good label printing program!! +Y
- PB030 THE MONEY PROGRAM Home accounting! +Y
- PB031 EASYCALC A superb new Fast spreadsheet! +Y
- PB033 A BASE A streamlined database program +Y
- PB034 ILINOIS LABELS Super label program!+Y
- PB035 BUDGET V1.34 manage personal finances!+
- PB036 BACK TO SCHOOL Treasure search, Alphabet etc+Y
- PB037 AMIBASE PRO II Latest version of database! +Y
- PB038 BUSDBASE V1.2 Very nice easy to use database+Y
- PB039 BARCODE PRINTER Superb barcode program!+Y
- PB040 PAY ADVICE ANALYSER V4 Latest version! +Y
- PB041 AMIGAWORD A useful geographical database!+Y
- PB042 BANKMAN PLUS+ Improved, only 20% ? or over!+Y
- PB043 ACCOUNT MASTER Home finance program. +Y
- PB044 EDWORD PRO V4 Superb new version! +Y
- PB045 FH SPREAD A nice spreadsheet program! +Y

DEMOS

- PD005 AMOS 3D DEMO Shows some great effects!+Y
- PD018 CHRIS DEMO Fab little demo by chris hastelar+
- PD068 PHENOMENA ENIGMA Absolutely brilliant! +Y
- PD093 SCOOPEX CHROMIUM Superb demo.+Y
- PD094 SPACE DEMO Fab little demo A classic+
- PD097 SLENTS GLOBAL TRASH Incredible!+
- PD130/34 ALCATRAZ ODDESSY Awesome!! Ok on 500+
- PD156 THE LOST BOYS Superb quality! +Y
- PD165 DARK DEMON Mega new demo ...get it! +Y
- PD170 PIECE OF MIND Good 3D vector effects. +Y
- PD171/2 PHENOMENA 3 (2) Incredible disk 1 +Y
- PD177/8 TRSI TIME ZONE New, some good effects+Y
- PD182 SPACEBALL Absolutely brill,needs 1meg chip!+Y
- PD184 MAD FIGHTER Fab 3D vasion by Pandora+Y
- PD187 HOY AGA DEMO 1st 1200 demo,a must! 1200 OK
- PD188 SANITY WORLD OF COMMODORE Super demo
- PD189/91 ANTIDEMO DEMON DOWNLOAD Fab demo! (2)
- PD200 PHOENIX DEMO inc Flashy rave demo!+Y
- PD201 1200 INTROS Yes, some AGA intros at last! Y
- PD202 TRSI 3D ENGINE Superb 3D engine demo +Y
- PD205 FAIRLIGHT ILLUSION Good demo 1mg chip! +Y
- PD206 MELON HOW TO SKIN A CAT Nice effects! +Y
- PD208 HOY DEMO 2 Fab tab demo for 1200 only! Y
- PD209 STONE ARTS ATMOSPHERE Nice demo. +Y
- PD213 TROJAN TECKNO TRACKS Amazing effects!!+Y
- PD214 THE PANTA PHILES 3 realistic fractals!200 c
- PD215 FAIRLIGHT 242 Unusual & interesting demo! +Y
- PD216/7 A TRIP TO DEEP BASS A must have rave dem
- PD218 WILD FIGHTER Fab AGA Mega combat!1200 O
- PD219 IMPULSE ART & GO Good music & pictures! +Y
- PD220 LEMON RINK A DINK Very classy demo!+Not 12
- PD221 POPULOUS Best AGA yet!! 1200 ONLY
- PD222 PYGMY EXTENTION DEMO Fast moving demo.+
- PD223+4 SPACEBALLS 9 FINGERS This is MEGA!!(2) +

CLASSICAL LITERATURE

Super books on a disk,perfect for English Literature
Beginners to advanced students.

- LIT1 Midsummer nights dream, Macbeth, Julius Caesar, Anthony & Cleopatra
- LIT 2 Romeo & Juliet, Passionate pilgrim,Phoenix & Turtle,Sonnets Contents!
- LIT 3 Romeo & Juliet, Passionate pilgrim,Phoenix & Turtle,Sonnets Contents!
- LIT 4 Twelfth Night, Much Ado About Nothing
- LIT 5 Two Gentlemen of Verona,A Writers tale,Rape of Lucrece,Pericles
- LIT 6 Venus & Adonis,Lovers complaint,Merchant of Venice
- LIT 7 Henry the Sixth (Parts 1, 2, & 3)
- LIT 8 Richard the Second, King John & Henry the Fifth
- LIT 9 Richard the Second, Richard the Third
- LIT 10 Henry the Fourth (Parts 1 & 2), King Lear
- LIT 11 The Taming Of the Shrew,The Tempest,Timon of Athens,Titu Andronicus
- LIT 12 All's well that ends well,Measure for Measure,Merry Wives of Windsor
- LIT13/14 WORKS OF MILTON Paradise Lost,Poems, Sonnets etc(2)
- LIT15/16 WORKS OF THE BIBLE Old & New Testament (2)
- LIT17/18 MARK TWAIN Tom Sawyer & The Prince & the Pauper,(2)
- LIT19/20 ALICE IN WONDERLAND Alice Through the looking glass
- LIT20 H G WELLS The Time Machine & The War of the Worlds.
- LIT21 DENISE ROBINS Collection
- LIT22 CHARLES DICKENS A Tale of two Cities.

MUSIC UTILITIES

- PT002 ART OF MED Excellent music !+ Y
- PT006 DELUXE MUSIC DATADISK For DMCS. +Y
- PT007 DMCS SAMPLES Fabulous samples +
- PT011 KAWAI K1 editor for patch changes!
- PT012 KAWAI K4 editor as above!
- PT013 MIDI 2.0 Excellent midi prog. + Y
- PT015 MIDI DISK Various midi stuff +
- PT020 ST-01 - ST-10 Samples--Ring for details
- PT021/22 STOCK SAMPLES Stock quality+ Y
- PT029 YAMAHA DX7 VOICE FILER for DX7 synths!
- PT030 YAMAHA DX7 VOICE SORTER for the above !
- PT031/32 SFX 2 Excellent music sequencer +
- PT041 NOISEPLAYER 4.0 Multitasking module player+
- PT042 START IFF SAMPLES Superb ! Get this disk!+
- PT043/4 STOCK SAMPLES Fab Classic MED sequencer+
- PT046 AUDIO MAGIC3 Super trackers disk, ok on 1200
- PT047 AUDIO MAGIC4 More Superb music programs! +
- PT048/50 MODULES 3 disks of large modules(3)+Y
- PT053/57 METAL MODULES 5 disks heavy rock/metal!
- PT058/62 BREAK BEATS 5 disks of drum samples+Y
- PT063/67 HOUSE 5 disks of super vocal samples+Y
- PT068/70 DRUMKITS 3 disks of high quality drums!+Y
- PT071/73 KORG SAMPLES 3 disks of keyboard sounds
- PT074/77 SFX SAMPLES Lots of sampled sounds+Y
- PT077 SAMPLE FACTORY Disk full of sound effects!+Y
- PT078 CHIPMAN SAMPLES over 70 samples here!+Y
- PT080 FUTURE SAMPLES 3 disks+Y
- PT081 SAMPLEMAKER V3.1 Make samples, +Y
- PT082 CLASSICAL MODULES On a classical theme! +Y
- PT084/5 MUSIC X 3.4 Superb performance music player+
- PT089 NO SAMPLER UTILITIES Music utilities!+Y
- PT086 CHIPMAN SAMPLES II More samples! +Y
- PT087 BUTASOFT SAMPLES Religious sonix music +Y
- PT088 X-BEAT V1.1 Excellent music tracker program!+
- PT089 AUDIO MAGIC5 Some new tracker programs.+Y

NEW TITLES!!!

- PG332 OPERATION FIRESTORM Stunning preview+Y
- PG333 ICERUNNER Icedunner type platform!+ (Not 1200)
- PG334 CITY Excellent version of classic adventure game +
- PG335 ORC ATTACK Defend the castle from invaders.+Y
- PG336 INTERFACE ROBOT Shoot the little red robots! +
- PG337 BRIDGE Super Bridge game preview!+Y
- PG338 TOOBZ Get the balls to an exit? +Y
- PG339 CONFUSION Powmania type sliding block puzzle+Y
- PG340 ADVANCED INVASION Nice space invaders clone! +Y
- PG341 MUCUS Platform puzzle & a slideshow! +Y
- PG342 DEPTHCHARGE Depth charge the enemy subs! +Y
- PG343 TOONIE 2 IN SPACE Another mystery(2)! +Y
- PG344 EXELLENT CARDS 4 games of patience & more +Y
- PG345 SICKBALL II Freeky ping pong game. +Y
- PG346 KISS THE CROAK Control 2 huge boxer figures+Y
- PG347 STARBIKE 2 playwright cycles in a maze! +Y
- PG348 PARADROID Superb version for your Amiga!+Y
- PE065 THE STATES OF EUROPE Super book on a disk+Y
- PE066 THE STATES OF EUROPE Super book on a disk+Y
- PE067/8 DISCOVERY OF THE ATOM science book(2) +Y
- PE069/70 TIME IN SPACE The mysteries of physics! (2) +Y
- PE071 FRENCH VERB TESTER Test your french! +Y
- PE072 CALCULUS MATHS Mental arithmetic tester! +Y
- PE073/4 KIDS DISK 3 A comic book publisher,design your own comics,games etc.(2)+Y
- PE075/6 TUTANKHAMUN Educational slideshow(2) +Y
- PE219 TYPING TUTOR REMEMBANE by Panacea,great disk+Y
- PT090 SOUND EFFECTS 1 A collection of sounds etc!+Y
- PT091 SOUND EFFECTS 2 MILITARY & WAR guns etc! +Y
- PT092 SOUND EFFECTS 3 VEHICLES Cars starting etc+Y
- PT093 OCTAMED TUTOR Very useful for learners! +Y
- PT094 SONIX ROCK Rock music written in Sonix +Y
- PT095 AUDIO MAGIC 6 FM synth,Quaddra & more! +Y
- PU840 ASI PRINTER FILLERS Virus 2 & much much more+Y
- PU461 ASI MULTIVISION AGA Superb, for 1200 only!

DISK MAGS

- PG267 SLAMBALL V1.1 Futuristic Management sim! +Y
- PG273 MUGSIE Money making gangster adventure!+Y
- PG274 ROULETTE & PUNTO 2 nice games (not 1.3)+Y
- PG279/80 OLYMPIAD 92 Nice warning olympic event+Y
- PG281 CAVEFLIGHT Simple dodge the obstacles game+
- PG283/4 EXORCISM Good 2 disk adventure+graphics+Y
- PG286 MYSTERY 2144AD Nice text adventure! +Y
- PG289/90 NECESSARY ROUGHNESS American footbal
- PG291 TITANIC CHEATS Hundreds of useful cheats! +Y
- PG295 THEME DUEL Control ship against gravity+Y
- PG298 FATAL MISSION 2 Superb blasting shoot up!+Y
- PG301/2 MOTOROLA 020 INVADERS For 1200 ONLY!
- PG303 MAD FIGHTER Fab AGA Mega version !1200 ONLY
- PG305/7 KLONDIKE II AGA Exellent,3 disks 1200 ONLY
- PG308 HIGH OCTANE Super overhead driving game+Y
- PG309 JELLY QUEST Nice jumping puzzle demo! +Y
- PG310 PUZZWORD Sliding block puzzle game. +Y
- PG313 ROAD TO HELL Super driving race game!+Y
- PG316 METAL MOTION Operation wolf type shoot up+Y
- PG319 PROFESSIONAL BINGO Great , with speech+Y
- PG320 SLIME Yes its slimy! destroy the slime.+Y
- PG321 ESCAPE MT DOOM Dungeon type adventure+Y
- PG322 QUACKERS A Cute character platform game+Y
- PG325 MEGABALL 3 AGA The BEST version!(1200 Onl
- PG326 DARTS GAME A nice darts game +Y
- PG327 NOSTROMO CHEATS Tons of cheats on this dis
- PG328 GAME TAMER V4.59 Crammed with cheats+Y
- PG329/30 STAIRMASTER Fab isometric space game(2) +
- PG331 GRAND PRIX MANAGER Racing strategy game.

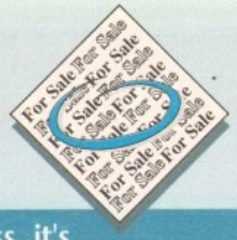
VISA

MasterCard

VALLEY PD
AMC5, PO BOX 15, PETERLEE
CO. DURHAM SR8 1NZ
TEL: 091 587 1195
FAX: 091 587 1195

BLITTERCHIPS
AMC5, CLIFF HOUSE, PRIMROSE
STREET, KEIGHLEY. BD21 4NN
TEL: 0535 667 469
FAX: 0535 667 469

NBS
AMC5, 1 CHAIN LANE, NEWPORT
I.W. PO30 5QA
TEL: 0983 529 594



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 now 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

● Amiga 600, 2Mb RAM, 65Mb hard drive, MIDI interface, sampler cartridge and software, joystick, many applications, games, books & magazines, bargain £300 ono Tel: 061-860 7524 after 6pm

● A570 CD ROM, unused, offers. 0634 681175

● Wanted: Video titling software. 0282 838576

● Upgraded A4000-030 Multisync, monitor, software. £1300 o.n.o. Will, 0889 590 121

● A1200 RAM board. 4Mb with CO-PRO. £239. Tel 0253 859097

● A500+ HDD 8Mb RAM. Many extras. £400, o.n.o. 0293 526543. (evenings)

● Wanted: G.V.P. Genlock Tele. 0325 354420

● A1500 and monitor. £600. 0245 442206

● Action Replay mk3. Hardly used. £35 as new. 0954 789503

● A600 HD (20Mb) £160. AMOS manual, £7.50. 0273 493659

● Magazines/coverdisks. From £1.00. Tel: Stephen, 0236 724094

● Cheap Amiga games. Call: 0472 605475

● Wanted: Protext, tel: 0744 820793

● Worldwide Amiga friends wanted. Write to: Bilal, 46 Paragon, 405 Lokhandwala Complex, Bombay, 400058 India

● Amiga Buzz. BBS. Tel: 0924 494690. 9pm-5am. Unlimited Downloads. PD only

● 1Mb GVP simms. A530, £35 each. Chris, 0737 221651

● AMOS contacts wanted. 100% reply. Paul, 5 Lockton Road, Whitby

● A1200 contacts wanted, fast, reliable, honest. 281 Bolton Rd, Radcliffe. M26 3QP

● Wanted: 'Desktop Dynamite' programmers. 0254 232248

● Amiga 500+, set up. £350. Tel: 081 552 6814 (eves)

● Pro Draw 3, Pro Page 3, Vista Pro 2, MBX1200 + 4Mb +68881 @14Mhz. Offers? 0703 398613

● Reference A500 RAM 8Mb, £150. John 0625 611372

● Wanted INDY HEAT and MOONSTONE please phone 0604 494576

● CD32 £230, Dave, 061 643 3025. (Manchester).

● Amiga contacts wanted. Write to Phil, 387 Stourbridge road, Catshill, Bromsgrove, Worcs, England. B61 9LG. Tel: 0527 879921. Everyone gets a reply

● Contacts wanted, Lee, 23 Marion Place, Newport, Gwent. NP9 2J2

● Miracle piano keyboard. £220. 0542 840714

● Amiga CD, 32-bit + 6 CDs - £300. Phone: Debbie Whitham, 0625 500019.

● Reliable PD swappers wanted. Speed not important! Must have decent collection. Send a printed list to S.A.S. crew, number 1 Carnoustie Close, Swinton, Mexborough, S.Yorks, S64 8TS

● A1200 clock, brand new, £15. Phone Paul after 7pm. 061 320 4169

● A500 £110. Tel Gareth, 0272 565616

● Amiga Computing magazines. 50p. 0256 704932

● Amstrad CPC games. 0205 820872

● Boxed games, £3-£15. Tel 0232 613158

● Miracom Courier HST 14,400 baud. Boxed, £180 o.n.o. Phone Gregor 0445 2189

● Digiview Gold and software, £35. Sound sampler and Audiomaster 3, £25. Modem wanted. 0622 663115. (Steve)

● A500 + 1Mb and loads. Tel: 0252 211277

● A500 RAM/clock expansion. New £10. 0553 760839

● Wanted: Understanding Imagine Book. 0757 288111

● Selling magazines, 50p. Telephone 02565 704932.

● A500 2Mb, games, mice, second drive, Blitz Copier and blanks. £325. US Robotics Sportster 14.4kbps modem £220, AMAS Sampler £30. Vidi-12, AGA £55. Tel: 0582 715536.

● A4000 Memory, £25. 0263 514806

● Printer: Panasonic KXP-2123 colour. Boxed, as new. Unused Colour Kit. Sell for £110, N London. Tel: 081 951 3342

● Amiga contacts wanted!: Tel: 0606 557219

● 3D Graphicans call, Norway,+47 761 45665

● Amiga original games 0234 365967

● A500 3Mb, DP3 and other software £130. 0296 712244

● 2.5in 40/50Mb IDE drive wanted for A1200. David 0904 624637

● Amiga A500 1Mb, £120, 0698 817644

● A500+ 2Mb external RAM expansion, fully populated, no thru-port, £55, phone 0923 241724.

● A500, great condition, £110. 0473 735666

● Contacts: P.O.B. 183, Damman 31411, Saudi Arabia

● 210 Mb IDE £250, 0450 75081

● Amiga contacts wanted, Worldwide (also A1200) 100% reply. Jan, Aalscholverlaan 16, 3862 KL, Nyerk, Holland

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.....

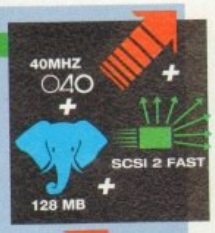
Send to: **AC Classifieds, Europa House, Adlington Park, Macclesfield SK10 4NP**

Remember to include your phone number/address in the advert as well as on the form!

PERFORMANCE COUNTS
(...NOT PROMISES)

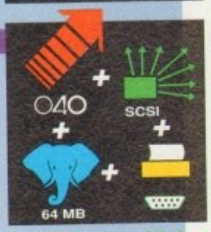
GVP brings out the best in every Amiga®

Great Valley Products delivers on our commitment to manufacture the most innovative and technologically superior products for the Amiga.

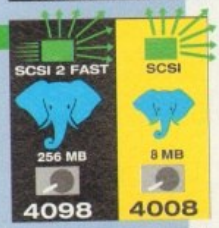


A4000 G-Force 040-40™
This is it! Never before has such a powerful processor been available for the Amiga! GVP puts a 40MHz Motorola '040 in your A4000 (030 or 040) and couples with it up to 32Mb of super fast SIMM32 memory. We don't stop there... add the memory expansion module and gain a total 128Mb of RAM (incredible!) directly connected to this blazing processor. For maximum performance, GVP offers a second optional module for a full 32-bit SCSI2*FAST* interface, capable of data transfer speeds up to an amazing 10Mb per second! GVP GForce...Experience the power!
CIRCLE 29 ON READER SERVICE CARD

G-FORCE



A2000 G-Force 040-33 Combo™
The classic Combo taken to the Ultimate Extreme! Your applications will blaze with the awesome power of a 33Mhz 68040 processor. Give that muscle some room to flex with room for up to 64MB of fast 32-bit RAM. Of course our award-winning SCSI II interface is integrated for maximum performance and we include the bonus of ioExtender capability with an extra parallel port and a buffered high-speed serial port. Hot "toast" served here!
CIRCLE 30 ON READER SERVICE CARD



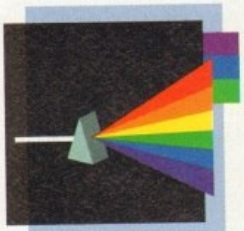
4098 SCSI2*FAST*/4008 SCSI II™
Bring the world of SCSI within your reach with either of these versatile boards. Instantly gain access to thousands of peripherals such as hard drives, SyQuest removable media and CD-ROMs. Add up to 7 devices to your Amiga 4000 and smile. The 4098 is equipped with a full 32-bit SCSI2*FAST* interface providing up to an incredible 10Mb per second transfer speed. Eight 32-bit, standard 72-pin SIMM slots provide for up to an amazing 256Mb of very fast RAM...NOW! A2000 users or those looking for the most economical SCSI solution will find room for up to 8Mb of 16-bit memory on our 4008 card.
CIRCLE 35 ON READER SERVICE CARD

IV-24™ A4000, The Ultimate Genlock
This is what you have been searching for in a professional quality genlock for your Amiga 4000. This integrated hardware design provides the crispest, cleanest genlocked video on the Amiga desktop. With options for RGB, composite, SVHS, Betacam and M-II compatible inputs & outputs as well as a 24-bit, 16.7 million color frame-buffer and real-time framegrabber/digitizer, this is *the* Amiga genlock every professional needs. GVP's acclaimed ImageFX software as well as the powerful EGS SpectraPaint, now included, complete this picture as the Ultimate Genlock. An enhancement package including the professional Component Transcoder (CT) is available separately!
CIRCLE 28 ON READER SERVICE CARD

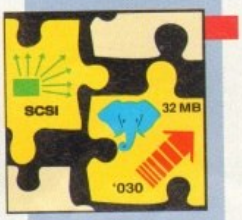
TBC Plus

TBC Plus™ This professional quality (CCIR-601), all digital time-base-corrector (TBC) uses state-of-the-art 8-bit 4:2:2 video signal processing. ...*Plus* it provides a real-time video frame-grabber and 16.7 million color frame-buffer ...*Plus* there is a full SMPTE/EBU time-code receiver/generator and a separate comb filter available...*Plus* this incredible product will transcode composite and Y/C inputs...*Plus* a 3 channel video input switcher (in composite and Y/C) ...*Plus* programmable video special effects!
CIRCLE 5 ON READER SERVICE CARD

G-Lock™ Bring live video, audio and Amiga graphics together and do it on *any* Amiga! Get connected with the world of video with our built-in transcoder to convert input video to composite, Y/C, RGB or YUV outputs! Full support for AGA systems as well as the 'classic' Amiga 500, 2000 and 3000. Acclaimed interface controls make this easy to use and simple to control. **Scala™** users can purchase an EX module from Scala distributors. With G-Lock's *included* dual-input audio panel it's simply the best choice for every personal Amiga owner.
CIRCLE 25 ON READER SERVICE CARD



EGS 28/24 SPECTRUM™
Go Beyond AGA Graphics with this real-time, 24-bit, true-color graphics enhancement card. Programmable resolutions up to 1600x1280! 800x600 in 24-bit! We include a custom display pass-through cable for single-monitor use. *Included with Spectrum is a GVP exclusive, the acclaimed EGS SpectraPaint* (formerly EGS-PAINT). Get the standard that others are developing for, EGS Spectrum. Bring workstation graphic power to your Amiga today and see what you've been missing!
CIRCLE 3 ON READER SERVICE CARD



Performance Series II™ At 50Mhz, you can own the fastest A1200 in the world! Add up to 32MB of high-speed 32-bit RAM, today! With the added power of a 50Mhz FPU, your floating point operations have never been speedier. A 40MHz version is also available for those who want the best, but don't need as much speed. A simple connection in the A1200's 'trap-door' never voids a warranty, and with either SeriesII you have the added versatility of our DMA Peripheral Port (DPP). Add the fastest SCSI interface on any A1200 with the A1291 **SCSI** Kit. It just plugs in from the back. Other expansion products,including a 16-bit CD quality audio digitizerand playback unit as well as a real-time video digitizer coming soon! Keep your options open!
CIRCLE 15 ON READER SERVICE CARD

DSS8+ DIGITAL SOUND STUDIO

DSS8+™ Clearly Superior! This is the quietest, most professional and attractive digital sound sampler yet made. Assembled of high-impact clear polycarbonate, this is the sound sampler to own for the Amiga. The versatile **Digital Sound Studio** software includes a multifaceted program for sampling, editing, song composition, stereo sound playback as well as creation of .MOD format songs. New DSS 3.0 software now supports direct-to-disk (hard disk!) recording and playback. New real-time effects and powerful playback and editing features as well as an even more versatile and powerful interface.
CIRCLE 53 ON READER SERVICE CARD

PHONEPAK VFX

PhonePak VFX™ 2.0
If you are calling for VoiceMail Press 1, if you would like to send a Fax, Press 2. If you would like to have this automated, scheduled, time/date stamped and call you when you have new mail, get **PhonePak VFX 2.0** today! Fully integrated, allowing unlimited mailboxes and private fax receiving. Send faxes from any program that prints. Call in remotely and retrieve faxes sent earlier. Plain paper or paperless faxing. Call routing with Centrex/PBX support, and more!
CIRCLE 41 ON READER SERVICE CARD

ioExtender™
Feeling trapped? Let GVP extend your horizons with our easy-to-use **ioExtender**. Contained on a single card, you will find an additional parallel port, allowing you to connect a printer and a digitizer (such as DSS8+) at the same time. No more messy, unreliable switch boxes! To speed you on your way, we include a high-speed, FIFO buffered serial port. No more dropped data or bogged-down computers when transferring data via modem (at speeds in excess of 57,600!). Optional RS-422 Kit or second RS232 Kit are available for even greater versatility. Free your ports and regain performance on your Amiga with **ioExtender**!
CIRCLE 36 ON READER SERVICE CARD

ImageFX™ This revolutionary must-have-program combines the traditional elements of image processing with amazing high-end special effects and morphing tools. Image FX is east-to-use in every respect. It supports image file formats in use on nearly any platform from Macs to SGI machines.It has built in virtual memory for all Amigas, no more 'out-of-memory' problems! ImageFX even incorporates an on-line help system! ImageFX includes EVERYTHING you need in one low cost package: 24-bit painting, scanner modules, image format conversion, and much more! Recommended by Video Toaster User and in use at Warner Bros. Animation ...ImageFX is the one to have! Get the tool the professionals use and recommend!
CIRCLE 18 ON READER SERVICE CARD

A500
A600
A1200
A2000
A3000
A4000

GVP

GREAT VALLEY PRODUCTS, INC.
657 CLARK AVENUE KING OF PRUSSIA, PA 19460 • USA
PHONE 610•354•9495 • FAX 610•337•9922

EGS 28/24 Spectrum, Performance Series II, Image FX, G-Lock, IV-24, G-Force '040-40, G-Force '040-33, 4098 SCSI2*FAST*, ioExtender, PhonePak VFX, and DSS8+ are trademarks of Great Valley Products, Inc. All other trademarks are the property of their respective owners.

E.M.COMPUTERGRAPHIC

THE U.K.'S NUMBER 1 AMIGA FONT AND CLIPART DISTRIBUTORS - AMIGA COMPUTING ISSUE 52

BITMAPPED CLIP ART

Fully sorted/saved as brushes, ready for import into your programs.

***EMC* Volume 1** - 5 Disks - **£14.00** - Classic *IFF Clipart*
Sports, Cartoons Military, Animals, Transport, People and Xmas.

***EMC* Volume 11** - 5 Disks - **£14.00** - Classic *IFF Clipart*
People, Food, Aircraft, Animals, Cats/Dogs, Sport, Transport etc..

***EMC* Volume 15** - 8 Disks - **£22.00** - Classic *IFF Clipart*
Electronics, Kids, Sports, Animals, Religion, Office, Food and more!

***EMC* Volume 22** - 5 Disks - **£14.00** - Classic *IFF Clipart*
People, Sports, Medical, Animals, Computers, Office and lots more!

***EMC* Volume 28** - 5 Disks - **£14.00** - Classic *IFF Clipart*
Animals, Xmas, Cats, Computers, Headers/Borders & Seasons.

VERY HIGH QUALITY IFF CLIP ART

Extremely large clipart which produces printouts of amazing quality. IFF format and compatable with ALL major applications.
We recommend that you have at least 2mb of memory to use these images!

EMC* Volume 34** - 5 Disks - **£14.00** - ***IFF Animals 1
Bears, Birds, Dogs, Water, Insects, Horses, Reptiles and Exotic.

EMC* Volume 35** - 5 Disks - **£14.00** - ***IFF Animals 2
Cats, Wild Cats, Funny Cats, Trop-Fish, Fish, Farm and Funny.

EMC* Volume 36** - 8 Disks - **£22.00** - ***IFF Transport
Just about everything from Aircraft to Boats and Cars to Trains. .

EMC* Volume 37** - 5 Disks - **£14.00** - ***IFF Business
Computers, Office, Bus.People, Printers and Funny Business.

EMC* Volume 38** - 5 Disks - **£14.00** - ***IFF Fantasy 1
Barbarians, Beasts, Knights, Weapons, Dragons, Men & Women.

EMC* Volume 39** - 5 Disks - **£14.00** - ***IFF Fantasy 2
Demons, Devils, Monsters, Skulls, Witches & Wizards etc..

EMC* Volume 40** - 5 Disks - **£14.00** - ***IFF Borders
Stunning Borders - Animals, Women, Objects and Natural etc..

EMC* Volume 41** - 6 Disks - **£16.50** - ***IFF People 1
Babies, Kids, Men, Women, Working, Families, Famous People.

EMC* Volume 42** - 5 Disks - **£14.00** - ***IFF Natural
Plants, Flowers, Tropical Plants, Trees and Garden Plants.

EMC* Volume 43** - 5 Disks - **£14.00** - ***IFF Sports
Gymnastics, Motor, Tennis, Golf, Water, Ball Games etc..

EMC* Volume 44** - 6 Disks - **£16.50** - ***IFF Education 1
Bibles, School, Churches, Christ, Priests, History and Places.

EMC* Volume 45** - 5 Disks - **£14.00** - ***IFF Various 1
Food, Easter, Xmas&Borders, Valentines, Sleighs and Wreaths.

EMC* Volume 46** - 5 Disks - **£14.00** - ***IFF Various 2
Buildings, Dancing, Music, Rescue, Zodiac and Survival etc..

EMC* Volume 47** - 5 Disks - **£14.00** - ***IFF Humour
Animals, Chickens, Idiots, People, Fruit, Kids, Dentists and Fish.

EMC* Volume 50** - 6 Disks - **£16.50** - ***IFF Dogs/Cats
Just about every breed of Dog & Cat, inc. Wild Dogs & Cats.

EMC* Volume 51** - 5 Disks - **£14.00** - ***IFF Birds/Insects
Eagles, Owls, Parrots, Common, Flies, Bugs, Bees and Spiders.

EMC* Volume 52** - 5 Disks - **£14.00** - ***IFF Animals 3
Beavers, Gerbils, Hamsters, Deers, Farm Horses and Rabbits.

EMC* Volume 53** - 5 Disks - **£14.00** - ***IFF Animals 4
Frogs, Snakes, Trop.Fish, Sea/Freshwater Fish, Insects etc..

EMC* Volume 54** - 5 Disks - **£14.00** - ***IFF Animals 5
Apes, Elephants, Giraffes, Zebras, Bears, Teddy Bears etc.

EMC* Volume 55** - 6 Disks - **£16.50** - ***IFF Flowers 1
Daffs, Flowering Plants, Chrys, Iris, Marigolds, Orchids, Lilies etc..

EMC* Volume 56** - 6 Disks - **£16.50** - ***IFF Flowers 2
Poppies, Flowers & lots more flowers!

EMC* Volume 57** - 6 Disks - **£16.50** - ***IFF Flowers 3
Petunias, Tulips, Flowers and lots more Flowers

EMC* Volume 58** - 6 Disks - **£16.50** - ***IFF Trees
Humorous, Oak, Pine, Maple, Willows, Palms, Bonsai etc.

EMC* Volume 59** - 6 Disks - **£16.50** - ***IFF Plants1
Bamboo, Pot Plants, Cacti, Yucca, Bulrushes, Thisties etc..

EMC* Volume 60** - 6 Disks - **£16.50** - ***IFF Plants 2
Herbs, Food related plants and lots of other plants!

EMC* Volume 61** - 6 Disks - **£16.50** - ***IFF Military
Aircraft, WWII Planes, Fighters, Tanks, Ships and lots more!

EMC* Volume 62** - 5 Disks - **£14.00** - ***IFF Fruit
Apples, Grapes, Pineapples, Strawberries, Cherries, Pears etc..

EMC* Volume 63** - 5 Disks - **£14.00** - ***IFF People 2
Babies, Kids, Kid's Stuff, Men, Cowboys, Famous etc..

EMC* Volume 64** - 5 Disks - **£14.00** - ***IFF People 3
Circus, Historic, Borders, Beauty, Lingerie, Hairdressing etc..

EMC* Volume 65** - 6 Disks - **£16.50** - ***IFF Events
B'day, Easter, Halloween, Xmas and nearly **2mb** of Wedding.

EMC* Volume 66** - 6 Disks - **£16.50** - ***IFF Work
Garden/Precision/Common Tools, Working Men, Machinery etc..

EMC* Volume 67** - 6 Disks - **£16.50** - ***IFF Food 1
Italian, BBQ, Sweets/Puddings, Junkfood, Chefs/Waiters, Vegs.

EMC* Volume 68** - 6 Disks - **£16.50** - ***IFF Food 2
Salad, Mushrooms, Sweetcorn, Wine, Champagne etc..

EMC* Volume 69** - 5 Disks - **£14.00** - ***IFF Science
Doctors, Anatomy, Dentists, Medical Equip, Nurses etc..

EMC* Volume 70** - 5 Disks - **£14.00** - ***IFF Education 2
Books, Teachers, Religion, Music/Instruments, Dancing and more!

EMC* Volume 71** - 6 Disks - **£16.50** - ***IFF Geography
World Pics. - Asia, Egypt, Africa, Europe, India, Arabic etc..

EMC* Volume 72** - 5 Disks - **£14.00** - ***IFF Various 3
Boats, Off Road, Italian/German Cars, Buses, Trains, Aircraft etc..

EMC* Volume 73** - 5 Disks - **£14.00** - ***IFF Various 4
Castles, Houses, Cartoons and lots more!

EMC* Volume 74** - 5 Disks - **£14.00** - ***IFF Various 5
Office Equip. , Clothing, Computers, Electrics, Office Borders etc..

EMC* Volume 75** - 5 Disks - **£14.00** - ***IFF Various 6
Soccer, Hunting, Fishing, Martial Arts, Flowers and lots more!

EMC* Volume 76** - 5 Disks - **£14.00** - ***IFF Various 7
Masks, Household, Fantasy, English Stuff, Footwear and more!

NEW ***EMC* Volume 162**- 6 Disks - **£16.50** - ***IFF KidsArt***
Artwork by Kids for Kids. Ideal for Nursurys and Playgroups!

NEW ***EMC* Volume 163**- 6 Disks - **£16.50** - ***IFF Sports 2***
Cricket, Exercise, Martial Arts, Skiing, Rugby and lots more!

NEW ***EMC* Volume 164**- 6 Disks - **£16.50** - ***IFF Sports 3***
Football, Fishing, Ice Hockey, TPBowling, Snooker & Windsurfing

NEW ***EMC* Volume 165**- 6 Disks - **£16.50** - ***IFF Animals 6***
Jungle, Birds, Horses, Fish, Farm, Cats (all types) and lots more!

NEW ***EMC* Volume 166**- 5 Disks - **£14.00** - ***IFF Maps 1***
European Countries, S.American, Middle East, West Indies etc..

NEW ***EMC* Volume 167**- 5 Disks - **£14.00** - ***IFF Maps 2***
African, Asian, America (and States) and other Countries.

NEW ***EMC* Volume 168**- 6 Disks - **£16.50** - ***IFF Various8***
Houses, Elec. appliances and lots of Wood/Metalworking Tools!

NEW ***EMC* Volume 169**- 6 Disks - **£16.50** - ***IFF Various9***
Events, XMas, Working People, Cars, Gardening, Transport etc..

NEW ***EMC* Volume 170**- 6 Disks - **£16.50** - ***IFF Various10***
2mb+ of Borders, Furniture, Food, Places, Toys & LOTS of Trains

NEW ***EMC* Volume 171**- 6 Disks - **£16.50** - ***IFF Various11***
Cameras, Cowboys, Kids & lots of Business & Computer Logos.

NEW ***EMC* Volume 172**- 6 Disks - **£16.50** - ***IFF Various12***
Medical, Statues, Insects, Maps and lots of Misc. People Bits!

OTHER FONTS AND CLIPART

EMC* Vol 2** - 6 Disks - **£16.50** - ***PC ClipArt
.gem structured/.img clipart. Computers, Borders and lots more!

EMC* Vol 3** - 2 Disks - **£ 6.00** - ***Pagestream Fonts
34 Pagestream format fonts, compatible with all program versions.

EMC* Vol 21** - 6 Disks - **£16.50** - ***PCX Clipart
For P'stream - Animals, Cartoons, Computers, Sports etc..

EMC* Vol 32** - 6 Disks - **£16.50** - ***IMG ClipArt
For P'stream - Animals, Food, Cartoons, Plants and Drinks.

EMC* Vol 33** - 6 Disks - **£16.50** - ***IMG ClipArt
For P'stream - People, XMas, Buildings, Sports and Transport.

EMC* Vol 48** - 5 Disks - **£14.00** - ***ColorFonts
54 4,8 and 16 color fonts for DPaint, Scala, Opalvision etc..

EMC* Vol 49** - 5 Disks - **£14.00** - ***ColorFonts
63 4,8 and 16 color fonts for DPaint, Scala, Opalvision etc..

EMC* Vol 18** - 5 Disks - **£16.50** - **60** ***PDraw Fonts

EMC* Vol 19** - 5 Disks - **£16.50** - **63** ***PDraw Fonts

EMC* Vol 20** - 5 Disks - **£16.50** - **50** ***PDraw Fonts

Typesmith Demo Disk £3.50
Pagestream2 Demo Disks £6.99
Opalvision Update Disks £6.99

256 IFF COLOUR GRAPHICS FOR AGA AND 24 BIT AMIGAS

IFF256 format pics that will load directly into any 24 bit or AGA application, such as Dpaint 4.5, Opalvision, ADPro etc. You can also use these pics as WB backdrops on A1200/A4000's.

EMC* Volume 88** - 6 Disks - **£16.50** - ***256 Cars 1
Ferraris, Corvette, Mercs, Formula 1, Sports Cars and more!

EMC* Volume 89** - 6 Disks - **£16.50** - ***256 Cars 2
Porches, Lambos, Classic, E-Type, and US Sports Cars.

EMC* Volume 90** - 6 Disks - **£16.50** - ***256 Planes 1
Falcons, Spitfire, Bombers, F-14's, Tomcats and more!

EMC* Volume 91** - 6 Disks - **£16.50** - ***256 Planes 2
F-15's, F-16's, Harrier, B17's, Stealth Bombers and more!

EMC* Volume 92** - 5 Disks - **£14.00** - ***256 Space 1
The Earth , NASA Space Shots, Lots of Planets and more!

EMC* Volume 93** - 5 Disks - **£14.00** - ***256 Space 2
Enterprises, Space Shuttles, NASA Shots and more!

EMC* Volume 94** - 5 Disks - **£14.00** - ***256 Women
Lots of Beautiful Women and Models

EMC* Volume 95** - 5 Disks - **£14.00** - ***256 WildCats
Lions, Tigers, Leopards and lots of other WildCats!

EMC* Volume 96** - 6 Disks - **£16.50** - ***256 Horses 1
Running Horses, Foals, Rodeo Horses and more horses!

EMC* Volume 97** - 6 Disks - **£16.50** - ***256 Horses 2
Horses in the snow, Horses on the beach and more Horses!

EMC* Volume 98** - 5 Disks - **£14.00** - ***256 Dogs 1
Alsation, Labrador, Cute puppies and even some ugly ones!

EMC* Volume 99** - 5 Disks - **£14.00** - ***256 Dogs 2
Setters, Cute Dogs with Cats, Cute Puppies and more!

EMC* Volume 100** - 6 Disks - **£16.50** - ***256 Cats 1
Really cute and humorous pictures of Cats and Kittens!

EMC* Volume 101** - 6 Disks - **£16.50** - ***256 Cats 2
More really cute and humorous pictures of Cats and Kittens!

EMC* Volume 102** - 6 Disks - **£16.50** - ***256 WaterLife
Dolphins, Whales, Frogs, Fish, GoldFish and lots more!

EMC* Volume 103** - 6 Disks - **£16.50** - ***256 Sun & Sea
Just about everything from Tropical Islands to Sandy Beaches.

EMC* Volume 104** - 6 Disks - **£16.50** - ***256 Animals 1
Pandas, Deers, Bears (all types), Zebras and lots more!

EMC* Volume 105** - 6 Disks - **£16.50** - ***256 Animals 2
Elephants, Gorillas, Chimps, Monkeys, Seals, Koalas and more!

EMC* Volume 106** - 6 Disks - **£16.50** - ***256 Animals 3
Wolves, Moose, Cougar, Kangaroo, Fox Pups and lots more!

EMC* Volume 107** - 6 Disks - **£16.50** - ***256 Animals 4
Lizard, Squirrels, Walrus, Kittens and lots of Other Animals.

EMC* Volume 108** - 6 Disks - **£16.50** - ***256 Panorama 1
Forests, Mountain Rivers/Lakes, Waterfalls, Rainbows and more.

EMC* Volume 109** - 6 Disks - **£16.50** - ***256 Panorama 2
Snow Topped Mountians, MountianLakes, Waterfalls, Streams etc.

EMC* Volume 110** - 6 Disks - **£16.50** - ***256 Panorama 3
Rolling Hills, Snow Scenes, Farms, Small Harbour, and Lots more!

EMC* Volume 111** - 6 Disks - **£16.50** - ***256 The Sun
Sunrises and Sunsets from Cities to Lakes to Deserts!

EMC* Volume 112** - 5 Disks - **£14.00** - ***256 World People
American/Amazon Indians, Hawaiians, Africans and more!

EMC* Volume 113** - 6 Disks - **£16.50** - ***256 America
Grand Canyon, Vegas, CeasarsPalace, White House etc.

EMC* Volume 114** - 6 Disks - **£16.50** - ***256 Castles
Castles with Moats, Castles on Mountains, Castles on Rivers etc..

EMC* Volume 115** - 6 Disks - **£16.50** - ***256 The World
From around the world - Egypt, Japan, Italy, France, England etc.

EMC* Volume 116** - 5 Disks - **£14.00** - ***256 Birds 1
Parrots, Humming Birds, Flamingos, and lots more Birds!

EMC* Volume 117** - 5 Disks - **£14.00** - ***256 Birds 2
Ducks, Eagles, Hawks, Owls, Winter Birds and more Birds!

EMC* Volume 118** - 5 Disks - **£14.00** - ***256 Birds 3
Swans, Falcons and lots of birds that we can't identify!

EMC* Volume 119** - 6 Disks - **£16.50** - ***256 Fantasy 1
Warriors, Dragons, Female Warriors and lots more!

EMC* Volume 120** - 6 Disks - **£16.50** - ***256 Fantasy 2
Dragon Lance pics, Dracula, Skull Warriors and lots more!

EMC* Volume 121** - 6 Disks - **£16.50** - ***256 The Movies
Batman, Starwars, Top Gun, Terminator, Indy, Karate Kid etc..

EMC* Volume 122** - 5 Disks - **£14.00** - ***256 Renders 1
Rendered Dragons, Glasshouse, Medcedes cars and more!

EMC* Volume 123** - 5 Disks - **£14.00** - ***256 Renders 2
Rendered Bugs, Chess Boards, Various Rooms, F-18 and more!

EMC* Volume 124** - 5 Disks - **£14.00** - ***256 Renders 3
Rendered kitchens, Bowling, Insects, Cameras and more!

EMC* Volume 125** - 5 Disks - **£14.00** - ***256 Girls 1
Beautiful Women dressed in very little...Blood boiling!

EMC* Volume 126** - 5 Disks - **£14.00** - ***256 Girls 2
Beautiful Women dressed in very little...Blood boiling!

EMC* Volume 127** - 5 Disks - **£14.00** - ***256 Girls 3
Beautiful Women dressed in very little...Blood boiling!

EMC* Volume 128** - 6 Disks - **£16.50** - ***256 Water Girls
Beautiful Women under Waterfalls, at the Pool and very wet!

EMC* Volume 129** - 5 Disks - **£14.00** - ***256 Swim Suits
Beautiful Women, of all shapes and sizes, in Swimsuits.

EMC* Volume 130** - 5 Disks - **£14.00** - ***256 Bikinis
Beautiful Women, of all shapes and sizes, in Bikinis

EMC* Volume 131** - 5 Disks - **£14.00** - ***256 Beach Girls
Women on the beach, the kind of babes you see in Baywatch!

EMC* Volume 132** - 5 Disks - **£14.00** - ***256 Lingerie
Beautiful Women, of all shapes and sizes, in Lingerie.

EMC* Volume 133** - 5 Disks - **£14.00** - ***256 Star Trek
High quality pictures of the NCC1701, TNG/ TOS characters etc..

EMC* Volume 134** - 5 Disks - **£14.00** - ***256 Various 1
Mixture of pics. mainly of Women & Fantasy...Starter volume!?

EMC* Volume 135** - 5 Disks - **£14.00** - ***256 Reptiles
Snakes, Frogs, Lizards, Crocs and some amazing pics of Dinos.

EMC* Volume 136** - 6 Disks - **£16.50** - ***256 Classic Cars
6 disks packed with Classic cars of all shapes and sizes.

EMC* Volume 137** - 6 Disks - **£16.50** - ***256 Cars 3
Vettes, Porches, Aston, Countachs, E-Type, Mini, RR, Esprit etc..

EMC* Volume 138** - 6 Disks - **£16.50** - ***256 Fast Cars
Testas, F-40's, Countachs, Porches, Lotus and lots more!

EMC* Volume 139** - 6 Disks - **£16.50** - ***256 Racing
6 disks full of Indy Racing, Formula 1, Drag Racing and more!

EMC* Volume 140** - 6 Disks - **£16.50** - ***256 Boats
Power, Yachts, Military and just about every other type of boat!

EMC* Volume 141** - 5 Disks - **£14.00** - ***256 Trains 1
1st of our 256 Train vols. containing Steam and Electic locos!

EMC* Volume 142** - 5 Disks - **£14.00** - ***256 Trains 2
2nd of our 256 Train vols. containing Steam and Electic locos!

EMC* Volume 143** - 5 Disks - **£14.00** - ***256 Trains 3
3rd of our 256 Train vols. containing Steam and Electic locos!

EMC* Volume 144** - 5 Disks - **£14.00** - ***256 Trains 4
4th of 256 Train vols. containing Steam and Electic locos!

EMC* Volume 145** - 6 Disks - **£16.50** - ***256 Military
Desert Storm, Tanks, Bombs, Jets, Cannons, Navel and more!

EMC* Volume 146** - 6 Disks - **£16.50** - ***256 Flight
Planes, H'copters, LightPlanes and stunning pics. of Hot Air balloons.

MORE 256 IFF COLOUR GRAPHICS FOR AGA AND 24 BIT AMIGAS

EMC* Volume 147** - 6 Disks - **£16.50** - ***256 Jet Fighters
F-117's, Phantoms, F-16 Falcons, Aircraft Carriers and lots more!

EMC* Volume 148** - 6 Disks - **£16.50** - ***256 Snow Scenes
Spectacular pics. of Snow Capped M'tains, Snowy Forests & Rivers.

EMC* Volume 149** - 6 Disks - **£16.50** - ***256 WaterLife 2
Colourful pics. of Tropical Fish, Coral, StarFish and lots more!

EMC* Volume 150** - 6 Disks - **£16.50** - ***256 Travel
Stonehenge, KingTut (Stunning), G.Canyon, Collesium and more!

EMC* Volume 151** - 5 Disks - **£14.00** - ***256 NASA 1
A'nauts, Shuttles, Planets, Lunar Modules and Hubble T'scope etc.

EMC* Volume 152** - 5 Disks - **£14.00** - ***256 NASA 2
Shuttles, S'lites, Launch Sites, Launchs and lots of Space Shots!

EMC* Volume 153** - 6 Disks - **£16.50** - ***256 Babes 1
Due to overwhelming demand...yet more disks of Beautiful Babes!

EMC* Volume 154** - 6 Disks - **£16.50** - ***256 Babes 2
Due to overwhelming demand...yet more disks of Beautiful Babes!

EMC* Volume 155** - 6 Disks - **£16.50** - ***256 Babes 3
Due to overwhelming demand...yet more disks of Beautiful Babes!

EMC* Volume 156** - 6 Disks - **£16.50** - ***256 Babes 4
Due to overwhelming demand...yet more disks of Beautiful Babes!

EMC* Volume 157** - 6 Disks - **£16.50** - ***256 Babes 5
Due to overwhelming demand...yet more disks of Beautiful Babes!

EMC* Volume 158** - 6 Disks - **£16.50** - ***256 Hunks
One for the Girls - 6 disks of 'Chippendale' type Hunky men!

EMC* Volume 159** - 6 Disks - **£16.50** - ***256 Various 2
Pictures mainly comprising of Babes and Wild Cats.

EMC* Volume 160** - 6 Disks - **£16.50** - ***256 Various 3
Famous People, Waterlife, Snow Scenes and Travel.

EMC* Volume 161** - 6 Disks - **£16.50** - ***256 Various 4
Space, Hunks, Babes, Rock Stars and Famous People!

EMC* Volume 208** - 6 Disks - **£16.50** - ***256 Robots
Some amazing high quality artwork of chrome plated female robots.

EMC* Volume 209** - 6 Disks - **£16.50** - ***256 Heavy Metal
Very nice fantasy type artwork from Heavy Metal magazine.

EMC* Volume 210** - 6 Disks - **£16.50** - ***256 Star Wars
Quality pictures and artwork from the Star Wars movies.

EMC* Volume 211** - 6 Disks - **£16.50** - ***256 Night Breed
Quality pictures and artwork from the SciFi series - Night Breed.

EMC* Volume 212** - 6 Disks - **£16.50** - ***256 DS9 1
Quality pictures and artwork from Star Trek - Deep Space Nine.

EMC* Volume 213** - 6 Disks - **£16.50** - ***256 DS9 2
Quality pictures and artwork from Star Trek - Deep Space Nine.

EMC* Volume 214** - 6 Disks - **£16.50** - ***256 DS9 3
Quality pictures and artwork from Star Trek - Deep Space Nine.

EMC* Volume 215** - 6 Disks - **£16.50** - ***256 DS9 4
Quality pictures and artwork from Star Trek - Deep Space Nine.

EMC* Volume 216** - 6 Disks - **£16.50** - ***256 DS9 5
Quality pictures and artwork from Star Trek - Deep Space Nine.

EMC* Volume 217** - 6 Disks - **£16.50** - ***256 TNG 1
Quality pictures and artwork from Star Trek - The Next Generation.

EMC* Volume 218** - 6 Disks - **£16.50** - ***256 TNG 2
Quality pictures and artwork from Star Trek - The Next Generation.

EMC* Volume 219** - 6 Disks - **£16.50** - ***256 TNG 3
Quality pictures and artwork from Star Trek - The Next Generation.

EMC* Volume 220** - 6 Disks - **£16.50** - ***256 Star Trek 2
Great pictures and artwork from Star Trek - Original series & Movies.

EMC* Volume 221** - 6 Disks - **£16.50** - ***256 Star Trek 3
Great pictures and artwork from Star Trek - Original series & Movies.

EMC* Volume 222** - 6 Disks - **£16.50** - ***256 Conan
Excellent 256 artwork featuring Conan the Barbarian.

EMC* Volume 223** - 6 Disks - **£16.50** - ***256 Dr Who
Great pictures and excellent artwork from the cult series Dr Who.

EMC* Volume 224** - 6 Disks - **£16.50** - ***256 TV-SciFi
This volume comprises of pictures and artwork from Blake 7 and "V"

EMC* Volume 225** - 6 Disks - **£16.50** - ***256 D.Lance 1
Stunning, high quality artwork from Dragon Lance.

EMC* Volume 226** - 6 Disks - **£16.50** - ***256 D.Lance 2
Stunning, high quality artwork from Dragon Lance.

EMC* Volume 227** - 6 Disks - **£16.50** - ***256 BorisV 1
Exceptional artwork by the renowned fantasy artist Boris Vallejo.

EMC* Volume 228** - 6 Disks - **£16.50** - ***256 BorisV 2
Exceptional artwork by the renowned fantasy artist Boris Vallejo.

EMC* Volume 229** - 6 Disks - **£16.50** - ***256 BorisV 3
Exceptional artwork by the renowned fantasy artist Boris Vallejo.

EMC* Volume 230** - 6 Disks - **£16.50** - ***256 BorisV 4
Exceptional artwork by the renowned fantasy artist Boris Vallejo.

EMC* Volume 231** - 6 Disks - **£16.50** - ***256 BorisV 5
Exceptional artwork by the renowned fantasy artist Boris Vallejo.

EMC* Volume 232** - 6 Disks - **£16.50** - ***256 BorisV 6
Exceptional artwork by the renowned fantasy artist Boris Vallejo.

EMC* Volume 233** - 6 Disks - **£16.50** - ***256 BorisV 7
Exceptional artwork by the renowned fantasy artist Boris Vallejo.

EMC* Volume 234** - 6 Disks - **£16.50** - ***256 BorisV 8
Exceptional artwork by the renowned fantasy artist Boris Vallejo.

EMC* Volume 235** - 6 Disks - **£16.50** - ***256 Kelly 1
Excellent artwork by the famous fantasy artist Ken Kelly.

EMC* Volume 236** - 6 Disks - **£16.50** - ***256 Kelly 2
Excellent artwork by the famous fantasy artist Ken Kelly.

EMC* Volume 237** - 6 Disks - **£16.50** - ***256 SciFi Art 1
Mixed bag of great artwork and pictures with a general SciFi theme.

EMC* Volume 238** - 6 Disks - **£16.50** - ***256 SciFi Art 2
Mixed bag of great artwork and pictures with a general SciFi theme.

EMC* Volume 239** - 6 Disks - **£16.50** - ***256 Woodroffe
Really good Weird fantasy pic.s from the world of Patrick Woodroffe

EMC* Volume 240** - 6 Disks - **£16.50** - ***256 Movies 2
Excellent pics/artwork from films - DS9, Star Wars, Terminator, "V".

EMC* Volume 241** - 6 Disks - **£16.50** - ***256 D & D
Stunning artwork with a Dungeons and Dragons theme.

EMC* Volume 242** - 6 Disks - **£16.50** - ***256 Fantasy 3
Loads of good quality general fantasy artwork.

EMC* Volume 243** - 6 Disks - **£16.50** - ***256 White 1
Spectacular artwork by the renowned fantasy artist Tim White.

EMC* Volume 244** - 6 Disks - **£16.50** - ***256 White 2
Spectacular artwork by the renowned fantasy artist Tim White.

EMC* Volume 245** - 6 Disks - **£16.50** - ***256 White 3
Spectacular artwork by the renowned fantasy artist Tim White.

VIDEOGRAPHERS EMC are teaming up with a leading film/production team with the aim of conducting weekend seminars covering all aspects of Amiga related video production and post production for the beginner, semi-pro and full Pro. If you are interested, send an SAE along with a brief letter detailing your interests and we will forward you full information & course prospectus when details have been finalised.

SPECIALISING IN THE PROMOTION OF DTP ON THE AMIGA AND WINNERS OF THE 1992 AMIGA SHOPPER TOP TYPEFACE AWARD

P S D

THE PROFESSIONAL STANDARDS FOR DISTRIBUTION ENDORSED BY COMMODORE UK

TYPE 1 FONTS

Compatible with Pagestream, The Publisher, Final Copy2 rel2, Final Writer etc.

EMC Vol 4 - 5 Disks - **£14.00** - *67 Type1's*
EMC Vol 5 - 5 Disks - **£14.00** - *63 Type1's*
EMC Vol 6 - 5 Disks - **£14.00** - *83 Type1's*
EMC Vol 7 - 5 Disks - **£14.00** - *68 Type1's*
EMC Vol 16 - 5 Disks - **£14.00** - *76 Type1's*
EMC Vol 17 - 5 Disks - **£14.00** - *79 Type1's*
EMC Vol 27 - 5 Disks - **£14.00** - *56 Type1's*
EMC Vol 29 - 5 Disks - **£14.00** - *80 Type1's*

NEW TYPE 1 FONT VOLUMES

EMC Vol 77 - 5 Disks - **£16.50** - *78 Type1's*
EMC Vol 78 - 5 Disks - **£16.50** - *69 Type1's*
EMC Vol 79 - 5 Disks - **£16.50** - *84 Type1's*
EMC Vol 80 - 5 Disks - **£16.50** - *71 Type1's*
EMC Vol 81 - 5 Disks - **£16.50** - *106 Type1's*

CG SCALABLE FONTS

Compatible with all versions of PPage, PSetter2/3, WWorth, WB2/3, Scala Opalvision and DPaint 4.1+ etc.

EMC Vol 8 - 5 Disks - **£16.50** - *61 CGFonts*
EMC Vol 9 - 5 Disks - **£16.50** - *64 CGFonts*
EMC Vol 10 - 5 Disks - **£16.50** - *57 CGFonts*
EMC Vol 23 - 5 Disks - **£16.50** - *58 CGFonts*
EMC Vol 24 - 5 Disks - **£16.50** - *64 CGFonts*
EMC Vol 25 - 5 Disks - **£16.50** - *66 CGFonts*
EMC Vol 26 - 5 Disks - **£16.50** - *71 CGFonts*
EMC Vol 30 - 5 Disks - **£16.50** - *59 CGFonts*
EMC Vol 31 - 5 Disks - **£16.50** - *60 CGFonts*

NEW CG SCALABLE FONTS

Supplied, due to popular demand, with PS downloadables!

EMC Vol. 82 - 5 Disks - **£16.50** - *53 CGFonts*
EMC Vol. 83 - 5 Disks - **£16.50** - *48 CGFonts*
EMC Vol. 84 - 5 Disks - **£16.50** - *46 CGFonts*
EMC Vol. 85 - 5 Disks - **£16.50** - *46 CGFonts*
EMC Vol. 86 - 5 Disks - **£16.50** - *34 CGFonts*
EMC Vol. 87 - 5 Disks - **£16.50** - *38 CGFonts*

PICK 'N' MIX SERVICES

We offer you not one...but TWO Pick 'N' Mix Services!

FONT PICK 'N' MIX FONT SERVICE

*This service, unlike others, is implemented properly! For example all CG Scalable fonts can be supplied with postscript downloadable fonts (if required) - **Who else supplies them?** Full details in the EMC Information Pack.*

CLIPART PICK 'N' MIX SERVICE

*We believe this to be the first service of its type on ANY computer platform. So what is the Clipart PNM service? Well, basically if you are ever in need of **HIGH QUALITY** clipart on a particular subject...this service could be for you. If you are in need of a disk full of flowers, business people, medical equipment or even teddy bears...just contact us and we will create a disk (or disks) tailor made to meet **your** requirements.*

SCANNING SERVICE

HAVE YOU EVER NEEDED SOME ARTWORK SCANNING?
ARE YOU SICK OF USING "CUT AND PASTE" METHODS TO GET YOUR ARTWORK ON PAPER?
EVER WANTED TO USE ONE OF YOUR FAVORITE PHOTOS AS AN AGA/VIDEO BACKDROP?
EVER WANTED TO SMARTEN UP YOUR VIDEO PRESENTATIONS WITH CUSTOM GRAPHICS?

We have offered this service, to customers who have asked, for over a year. During this time the our scanning service has proved to be very popular with everybody from amateur desktop publishers to professional video users. We can provide high quality scans, in any format and resolution from your original artwork or photos up to A4 in size...

50 DPI TO 600 DPI - IN ANY FORMAT FROM MONOCHROME TO 24 BIT

We provide finished scans, on disk, in standard IFF file formats, but if required we can also supply artwork in most PC formats (PCX, Tiff, Gif etc) on MS-Dos high density disks.

FOR MORE DETAILS...GIVE US A RING!

ECS 16 COLOUR IMAGES FOR ALL AMIGAS

These VERY HIGH QUALITY images are compatible with ALL Amigas and were created especially for all our customers who have flooded us with requests for high quality colour graphics for their non AGA/24 bit Amigas. These images can be used with ALL versions of Dpaint, all DTP/Graphics programs and are especially suited when used as video backdrops in all versions of Scala.

YOU WON'T BELIEVE THAT THESE IMAGES ONLY CONTAIN 16 COLOURS!

EMC* Volume 173** - 6 Disks - **£16.50** - ***ECS Chicks 1
Girls, Girls and more Girls. Stunning Pictures...Enough to make you drool!

EMC* Volume 174** - 6 Disks - **£16.50** - ***ECS Chicks 2
Girls, Girls and more Girls. Stunning Pictures...Enough to make you drool!

EMC* Volume 175** - 6 Disks - **£16.50** - ***ECS Chicks 3
Girls, Girls and more Girls. Stunning Pictures...Enough to make you drool!

EMC* Volume 176** - 6 Disks - **£16.50** - ***ECS Chicks 4
Girls, Girls and more Girls. Stunning Pictures...Enough to make you drool!

EMC* Volume 177** - 6 Disks - **£16.50** - ***ECS Chicks 5
Girls, Girls and more Girls. Stunning Pictures...Enough to make you drool!

EMC* Volume 178** - 6 Disks - **£16.50** - ***ECS Panorama 1
Mountains, Lakes, Trees, Landscapes - Great Scala B'drops or DPaint Pics!

EMC* Volume 179** - 6 Disks - **£16.50** - ***ECS Panorama 2
Mountains, Lakes, Trees, Landscapes - Great Scala B'drops or DPaint Pics!

EMC* Volume 180** - 6 Disks - **£16.50** - ***ECS Panorama 3
Mountains, Lakes, Trees, Landscapes - Great Scala B'drops or DPaint Pics!

EMC* Volume 181** - 6 Disks - **£16.50** - ***ECS Panorama 4
Mountains, Lakes, Trees, Landscapes - Great Scala B'drops or DPaint Pics!

EMC* Volume 182** - 6 Disks - **£16.50** - ***ECS Space 1
Just about everything to do with Space including NASA and Star Trek!

EMC* Volume 183** - 6 Disks - **£16.50** - ***ECS Space 2
Just about everything to do with Space including NASA and Star Trek!

EMC* Volume 184** - 6 Disks - **£16.50** - ***ECS Cars 1
BMWs, E-Types, Ferraris, Formula1, Porches, Indy Car Racing and more!

EMC* Volume 185** - 6 Disks - **£16.50** - ***ECS Cars 2
Countachs, Ferraris, E-Types, Vettes, TransAms, Camaros and Classic.

EMC* Volume 186** - 6 Disks - **£16.50** - ***ECS Aircraft 1
Aircraft Carriers, F16s, Helicopters, Mustangs, Phantoms and lots more!

EMC* Volume 187** - 6 Disks - **£16.50** - ***ECS Aircraft 2
Bombers, Buccaneers, F117s, Hunters, F14s, F15s, F16s and lots more!

EMC* Volume 188** - 6 Disks - **£16.50** - ***ECS Animals 1
Apes, Bears, Pandas, Seals, Wolves, Reindeers, Deers and lots more!

EMC* Volume 189** - 6 Disks - **£16.50** - ***ECS Animals 2
Dinosaurs, Elephants, Snakes, Iguanas, Spiders, Frogs and lots more!

EMC* Volume 190** - 6 Disks - **£16.50** - ***ECS Animals 3
This vol. mainly contains Horses but also includes some other Animals.

EMC* Volume 191** - 6 Disks - **£16.50** - ***ECS Animals 4
This vol. mainly contains Wild Cats but also includes some other Animals.

EMC* Volume 192** - 6 Disks - **£16.50** - ***ECS Dogs&Cats 1
Loads of very high quality pictures of Domestic Dogs and Cats.

EMC* Volume 193** - 6 Disks - **£16.50** - ***ECS Dogs&Cats 2
Even more very high quality pictures of Domestic Dogs and Cats.

EMC* Volume 194** - 6 Disks - **£16.50** - ***ECS Famous People
Film Stars, Rock Stars, Other Famous People and lots of WWF Stars.

EMC* Volume 195** - 6 Disks - **£16.50** - ***ECS Military
Tanks, Aircraft Carriers, Desert Storm Pics, Infantry and lots more!

EMC* Volume 196** - 6 Disks - **£16.50** - ***ECS Motor Racing
Racing Bikes, Drag, Senna, Schumacker, Mansell & lots of Formula One.

EMC* Volume 197** - 6 Disks - **£16.50** - ***ECS Trains
Packed full of pictures of Steam Trains and Diesel/Electric Locomotives

EMC* Volume 198** - 6 Disks - **£16.50** - ***ECS WaterLife
TropicalFish, Coral & Other Sea Creatures. Great pictures for Backdrops!

EMC* Volume 199** - 6 Disks - **£16.50** - ***ECS World 1
Pics of Egypt (inc Tut), France, Greece, Italy, USA etc. (Holiday Videos?)

EMC* Volume 200** - 6 Disks - **£16.50** - ***ECS World 2
Am. Indians, Australia, China, Britain, India, Japan + more (Holiday Videos?)

COMPUTER SAFARI

Desktop Publishing Typefaces

E.M.C. are the exclusive UK and European distributors for the HIGHLY ACCLAIMED commercial Computer Safari range of DTP Typefaces. Safari fonts are of exceptional quality, contain FULL character sets and have been highly praised in the UK Amiga press.

For those of you that have already purchased, or have information on the Safari fonts, we would like to inform you that Safari compilation packs are now available.

Full details are included in the EMC information pack.

16 COLOUR CLIPART FOR ALL AMIGAS

This VERY HIGH QUALITY colour clipart is suitable for use with ALL Amiga programs that support the use of colour clipart including Pagestream, PPage, PSetter, Wordworth, Final Copy, Final Writer, PenPal, Kindwords, Photon Paint, DigiPaint, DPaint, Scala etc..

All disks, except the disks on EMC Volume 204, contain special IFF index thumbnail screens. Simply double click on the "Disk Index" icon to see the entire disk contents!

EMC* Volume 201** - 6 Disks - **£16.50** - ***CCA Animals 1
This volume contains a whole host of Birds, Insects and Dinosaurs.

EMC* Volume 202** - 6 Disks - **£16.50** - ***CCA Animals 2
Lots of high quality coloured clipart of Dogs, Cats and Reptiles.

EMC* Volume 203** - 6 Disks - **£16.50** - ***CCA Animals 3
Horses, Reptiles and just about every mammal you could possibly think of!

EMC* Volume 204** - 10 Disks- **£25.00** - ***CCA Maps
This volume contains full colour maps of probably every country on Earth!

EMC* Volume 205** - 6 Disks - **£16.50** - ***CCA Flowers
Pot Plants, Wild Flowers, Garden Flowers, Bulbs, Hanging Plants etc..

EMC* Volume 206** - 6 Disks - **£16.50** - ***CCA Natural
This volume contains lots of Fruit, Vegetables and Trees.

EMC* Volume 207** - 6 Disks - **£16.50** - ***CCA Various
Lots of coloured Musical Instruments, Planes, Ships, Transport and Fish.

ECAPSULATED POSTSCRIPT CLIPART

Very high quality clipart, suitable for use with Pagestream, PPage 4.0+ and Final Writer.

***EMC* Vol. 12** - 6 Disks - **£16.50** - *EPS Clipart*
Weddings, Houses, Office, Kids, Mil.Planes, Boats, Food.

***EMC* Vol. 13** - 6 Disks - **£16.50** - *EPS Clipart*
Buildings, Animals, Sport, Aircraft, Hols, Chefs, People.

***EMC* Vol. 14** - 6 Disks - **£16.50** - *EPS Clipart*
Houses, World, Music, BiPlanes, Males/Females etc..

EMC COMPETITION #2 WINNER

Congratulations to ...

Mr. G J Baptist from Crewe in Cheshire

YOU CAN NOW SELECT YOUR £50 WORTH OF EMC SOFTWARE!

When asked why he purchased his software from EMC, he replied...

"I want the best DTP , so I always order EMC "

THE EMC COMPETITION #3 IS NOW RUNNING!

THE EMC INFORMATION PACK

*The **HARD COPY** EMC information pack includes full details of **ALL** the fonts EMC has on offer, inc. Computer Safari Fonts, along with full font printouts, details of our PNM and scanning services, details of our ECS 16 colour and AGA 256 colour image collections, details of our PCX, GEM, monochrome, EPS, multiformat and colour clipart, a font and clipart compatability guide and many example printouts from our huge clipart collections.*

To get your copy, please send us your name and address, along with...

£1.00 & 25p POSTAGE

(Payment can be made with either stamps, postal orders or cheque)

Information packs and updates are included FREE with any order!

Amiga Computing in issue 52 said...
"E.M.C. are the FIRST and FOREMOST Font distributors in the UK" **they then placed us at...No.1 in the TOP 10 of the Amiga hardware/software chart!**

Ian Wrigley from Amiga Shopper in issue 16 said...
"...I must say that I'm quite impressed..."

Amiga Format in issue 36 said...
"...E.M.C. have an enormous amount of expertise in the tricky area of fonts and can provide professional help and advice to customers"

Amiga Format Special Edition said...
"...the best value rescalable fonts available anywhere...there's no cheaper way of getting quality fonts"

CUAmiga in the issue of September '92 said...
"...you couldn't do much better than taking a look through the sets offered by E.M.C."

Amiga Shopper January 1992 gave Safari Fonts and EMC...
"The Top Desktop Publishing Typeface Award For 1992"

Pat McDonald from Amiga Format in issue January 1992 said...
"The best person to talk to about fonts, in the UK at any rate is Errol at E.M.C"

Amiga Mart November 1992 said...
"EMC's emergence into the cut-throat retail area has come none too soon, their service and technical backup is second to none."

E.M.COMPUTERGRAPHIC - Font, Clipart and Software suppliers to over 7,000 customers!

Our so called competitors claim to offer outstanding technical support and service. If this is true why do the following companiesprefer to buy their DTP software from us?

MERIDIAN DISTRIBUTION, CENTRAL TELEVISION, MERIDIAN SOFTWARE, FIRST COMPUTERS, BLITTERSOFT, OMEGA PROJECTS, THE INSTITUTE OF MATERIALS, THE UNIVERSITY OF LONDON, ALPHABET PUBLISHING, DIGITAL MULTIMEDIA SERVICES UK, THE IMPERIAL WAR MUSEUM AND MAJORVISION INTERNATIONAL

More fonts, More Clipart, and unrivalled Tech Support!

MasterCard VISA EUROCARD

E&OE

Credit Cards Welcome - Same Day Dispatch - £10 minimum order
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 : 0255 431389 Fax: 0255 428666

EMC

Dragon Systems (0492) 543963

Discount Computer Hardware & Software Specialists

Amiga CD32 – Including 4 game titles	£274.99	CALL FOR CHEAPEST PRICES ON ALL A4000 MACHINES	
Amiga 1900 Race 'n' Chase pack, inc. Commodore warranty	£283.99	Hawk A1200 RAM/FPU Board 4Mb no FPU	£189.95
As above with a 64Mb HD	£425.94	Hawk A1200 RAM/FPU Board 4Mb + 50Mhz 68882	£233.95
Amiga 1900 Desktop Dynamite pack, from	£319.99	Citizen ABC 24 pin printer	£141.99
As above with a 64Mb HD	£472.49	Citizen 240 24 pin mono printer	£201.99
NEW – Amiga 4000/040LC 6Mb RAM/214Mb HD	£CALL	Citizen 240C 24 pin colour printer	£223.99
NEW – Amiga 4000/040TW TOWER	£CALL		

All Amiga HD models are Official Commodore approved models.
A wide range of Amiga hardware & software available including printers, RAM expansions, accelerators, consoles, this is just a small sample!

HOW TO ORDER

Make cheques/P.O. payable to Dragon Systems and send with your order to:

DRAGON SYSTEMS, 5 Ffordd Y Maer, Colwyn Bay, Clwyd LL28 5DH.

Add £5.00 for delivery. Goods despatched on cheque clearance.
Lines open 9am-11am, 4pm-11pm 7 days.
*Prices may vary - phone first to check availability & price. *E&OE 15/2/94

EdWord Professional V4.1

The latest release of the user friendly shareware text editor is now available. It will run on ALL Amigas (1MB recommended) and has been specifically updated to take advantage of WorkBench 2.0; although it will still function under V1.2 and V1.3. The latest version offers the new facilities...

ONLY **£10.00** (inc. VAT + P&P)

- Edit up to 15 documents at once with an optional split screen facility to view two of them together
- ARexx port boasting over 100 commands. Can run your favourite 5 scripts at the press of a button
- Macro facility to record/playback sequences of keypresses, mouse clicks, menu selections etc.
- PowerPacker support: can decrunch packed files
- Powerful printing options including setting margins, page size, page numbering, draft/NLQ, pitch size, tractor/single sheet, output to a file etc.
- Text Casing facility to force certain keywords into a particular case (e.g. PRINT, WriteLn, printf etc.)
- Ability to define and run 3 separate AmigaDOS commands from within the editor.
- Symbolic Indentation feature which automatically indents your source code as you type it!
- For WorkBench 2.0 users: AppWindow support, an Iconify feature and ASL file requester support.
- Ability to alphabetically sort blocks of text
- Can define the path gadgets on the file requester
- Can assign strings of text to the 10 F-Keys
- Auto Save; Word Wrap; Bookmarks; Built-in Calculator; Match Brackets; Auto Indent; Word Count; Save Icons; Make Backups; Strip EOLN...
- Totally configurable to the user's own taste
- Large and extensive hypertext help system in AmigaGuide format (with viewer program)
- HardDrive install utility (using the official Commodore Installer)
- Send blank disk & S.A.E for demo version

Please make all Cheques/Postal Orders payable to : M.Reddy

Martin Reddy, Lossiemouth House, 33 Clifton Road, Lossiemouth, Moray, IV31 6DP

AMIGA COMPUTING ADVERTISERS' INDEX

17 Bit Software 96, 97
1st Computer Centre 56, 57
Amiga Advice Line 170
Amivision 162
Analogic Computers 166
Arnold Computer Serv 170
Arnor 76
Battleaxe PD 104, 105
BJ Electronics 170
Blittersoft 50
Brian Fowler Computers 185
Bruce Smith Books 164
Bus Stop PD 170
Capri CD Distribution 170
Care Electronics 174
Chroma Computer Images 168
Core Design Ltd 123, 145
Crystal Haze 170
Cynostic 170
Dart Computer Services 166
Delta Pi Software 74
Deltrax PD 108, 109
Direct Computer Supplies 88
Direct Computers 169
Discover 168
Diskovery PD 106
Dominator One PD 170
Dragon Systems 184
Drome PD 170
DTBS 78
EM Computergraphic 182, 183
Empire Software 133
Epic Marketing 81-83
ESP Software 151
Europress Direct 90-92
Europress Software 53
Exclusive PD 162
Fast Engineering 168
Fernley Associates Ltd 172
First Choice PD 103
Five Star PD 113
Future Software 170
Gasteiner 64, 65, 160
Gordon Harwood Computers 15, 17, 42-45, 69
Great Valley Products 181
Greytronics Ltd 32
Handisoft 162
Hi-Soft 11
Hobbyte 18, 19
ICPUG 170
Indi Direct Mail ..... IFC, 3-5
Jorvik PD 170
K.W. Software 170
Kew = II 170
Kixx XL 147
Kontax Computers 169
Kyte Products 170
Ladbroke 8
LCL 84
Logic PD 170
Martin Reddy Group 184
Meridian S/W Distribution 78
Microvalue/Flair 114
Mindscape 119
Modern Publications 75, 162, 174
Moore Healy Mkting 170
New Dimensions 78
Optonica Ltd 66
Orion PD 75
Owl Associates 75
Pathfinder PD 162
PD Soft 101
Planet Data 166
Power Computing ..... 49, 186, IBC
Premier Mail Order 168
Rombo Ltd ..... OBC
Rubysoft 158
Scorpion PD 170
Scribble PD 170
Seasoft Computing 79
Sector 16 170
Selectafont Company 169
Silica 13, 63, 87, 95
Silverbird Computers 170
Siren Software 27
Softcell Services 174
Software Demon 154, 155
Special Reserve 30, 31
Trevan Designs Ltd 162
Trilogic 60
Underground PD 170
Vally PD 178, 179
Wheel Barrow S/ware 133
Whiteknight Technology 38, 39
Wizard Games 84
WMC PD 133
WTS Electronics 70, 71, 74
York Electronic Res. 170

BRIAN FOWLER Computers Ltd

Commodore AMIGA

11 North Street, EXETER, DEVON, EX4 3QS

A1200

14Mhz 68020, 2 MB RAM, 3.5" Floppy Drive, AGA Chip Set, 262,000 Colours On Screen and Free On-Site Warranty.

Free Technical Support

£289.95

New Packs and Prices!!! Please Phone for details.

Official C= Hard Drive Versions Available. Phone Us!

CD32

Also includes Spectacular Voyage and Chaos Engine

Free !!! Microcosm!!!

FMV Module Now Available! Watch MPEG Movies!!

£289.95

A4000

The Ultimate Power Machine!

Choice of Fast P… A Chip Set, 16.8 Million Colour P… free display. 3.5" HD Dri… DE Hard Drive (SCSI …nsion Slots. Complete with …ull On-Site Warranty. Various …Call for compatibility reassurance! …UK machines, not "grey imports".

New A4000/040LC from £1649!!!

New A4000/040 SCSI Tower from only £1849!!!

030 ***Call Now For New Prices*** **040** ***Phone for best deal***

THE AMIGA CONNECTION *Your One Stop Cable and Connector Shop.* **PHONE**	***Expert buying advice, friendly service and excellent support.*** **FREE**	***CD32 Add-On Port. Connect to Amiga or PC*** **£29.99** ***Transfer files, pictures, clip art from CD32 to computer.***
Canon BJ10sx *Popular and affordable near laser quality Bubble Jet.* **£224.99** ***Studio Printer Software Get the most from your Printer*** **£49.95**	***HP DJ550C*** *Colour Deskjet with full CMYK printing. Superb output! Excellent paper handling!* **£474.99**	***MICROVITEC*** *Cub-Scan supports all AGA modes* **£429.99** *Microvitec Autoscan 14". All AGA modes. Stereo Speakers.* **£329.99**
USR Sportster Fax Modem 14400bps *One of the fastest modems you can buy.* **£289.99**	***Fed-CASE*** *Flowcharting Code Generator* *We are the UK Distributors for this excellent product.* **£74.99**	***Upper Disk Tools -*** ***Superb Disk Utility*** **£19.95**

Hard Drives, SCSI 2 Controllers and Accelerators for the A4000 and A1200

Western Digital	A4000 CD ROM	SCSI II
Caviar IDE drive 128k cache 340 MB - FAST! **£299.99**	Complete with interface card - also available for 1500, 2000 and 3000(T). Available NOW! **from £199.00**	**DKB 4091** *Controller Available Now!* **£399.99**

Can't see what you want? Just ring (0392) 499 755 --- we have lots more than we can show here!

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.

(0392) 499 755

PRICES CORRECT AT TIME OF GOING TO PRESS. E&OE. PLEASE PHONE TO CONFIRM LATEST PRICES.

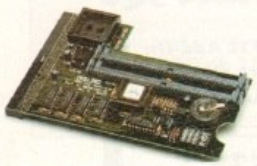
Monday - Saturday 9.30am-6.30pm

0392 499 755

FAX No. 0392 423480

Access MasterCard VISA EUROCARD SWITCH

All Prices Shown Include VAT. Standard Delivery Is Free. No Hidden Extras.



PC1202-8

Power Computing and DKB have joined forces to produce the ultimate A1200 32-bit memory expansion. The PC1202-8 uses the latest industry standard 32-bit Simm technology which allows you to use 2MB, 4MB and 8MB modules. Simply by adding either a PC1202-8 to your Amiga 1200 will increase its processing speed by 219%, comes with real-time battery backed clock and optional FPU available.

Bare

PC1202-8 ..... **£79.95**
PC1202-8 + 68882 20MHz **£99.95**

With 2MB

PC1202-8 + 68882 no FPU ... **£159.95**
PC1202-8 + 68882 20MHz ... **£179.95**
PC1202-8 + 68882 33MHz ... **£199.95**
PC1202-8 + 68882 40MHz ... **£225.95**

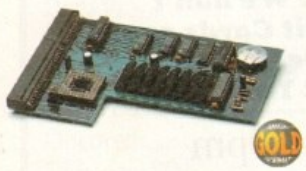
Trade in your 2MB Simm to upgrade to 4MB or 8MB, telephone for details.

With 4MB

PC1202-8 + 68882 no FPU ... **£239.95**
PC1202-8 + 68882 20MHz ... **£259.95**
PC1202-8 + 68882 33MHz ... **£275.95**
PC1202-8 + 68882 40MHz ... **£299.95**

There is no need to throw away the board if you want to upgrade from 4MB to 8MB. Its simple, just buy an extra 4MB Simm.

Extra 4MB Simm **£159.95**



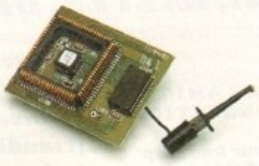
PC1204

The original PC1204 4MB 32-bit memory expansion is still available, and is exceptional value.

PC1204 + 68882 50MHz **£319.95**

New Midi Interface

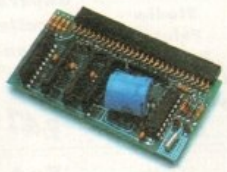
Midi Interface (new Midi chip) .. **£19.95**



MegaChip Ram

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

MegaChip RAM **£159**



A500 Memory

A 4-chip 512K RAM expansion with a battery backed clock. Free software included. (A500+ compatible)

A500 Card with clock **£29**

A500 8MB

Expand your Amiga 500 from 2MB to 8MB of RAM. Plugs into the side slot, full auto-config, and through port.

2MB Board **£139**
4MB Board **£219**
8MB Board **£299**

Memory Expansions

We manufacture a vast range of memory cards for the Amiga 500, 500+, 600, 1200, 1500, 2000, 3000 and 4000. Please telephone us for prices and availability.

DKB 3128

Up to 128MB of RAM on your Amiga 3000/400 using 4,8,16 and 32MB Simm modules. This is a true Zorro III 32-bit memory board.

DKB 3128 0MB RAM **£279**

Octogen SCSI-2

SCSI-2 board for the Amiga 2000 including memory expansion capabilities of up to 8MB.

Octogen SCSI-2 ..... **£129**

DKB 4091

The DKB 4091 (licensed by Commodore) SCSI Host Adaptor is a high performance board that connects up to seven SCSI devices to your Amiga. The DKB 4091 features: Full Zorro III implementation, fast SCSI-2 implementation, SCSI internal connector and ribbon cable, high density SCSI-2 external connector, direct memory access (DMA) and hardware to install a 3.5" hard drive on the board.

DKB 4091 ..... **£299**

Video Backup

Use a VCR as a backup storage device. Two hundred Amiga floppy disks fit on to a 4Hr tape which can be used for an alternative hard disk backup system. What's more you can now watch television on your 1084s monitor. A Scart or Phono version is available.

Video Backup Scart **£65**
Video Backup Phono **£60**

GVP Products

Power Computing can supply all GVP 'High end professional' hardware and software. Please call for your requirements.

EGS Spectrum 24-bit card (2MB) ... **£389**
G-Lock (PAL video genlock) **£299**
HC8+ SCSI controller **£129**

Hard disks available from 52MB to 1GB

Co-processors

All maths co-processors include crystals.

20MHz **£40**
33MHz **£69**
40MHz **£89**
50MHz (PGA) **£154**

Disk Expander

Disk Expander is an innovative program for all Amiga users. With this software solution you may double the capacity of your floppy disk or hard disk drives. The installation process takes only a few seconds and afterwards DiskExpander works invisible in the background. The compression ratios vary from 30% to 70% depending upon the used compression-algorithms and upon the kind of data.

The easy-to-use graphical user interface guarantees that even the inexperienced user is able to use Disk Expander immediately without any problems. DiskExpander does not only expand the capacity of your hard disk drive, even floppy disks now have a storage space of approximately 1.5 megabytes.

The concept of DiskExpander was designed under the aspect of maximum data security and high compression speed. The user decides to which extent the data is condensed by choosing high or medium compression libraries and thus has direct influence on the processing speed.

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

Disk Expander **£35**

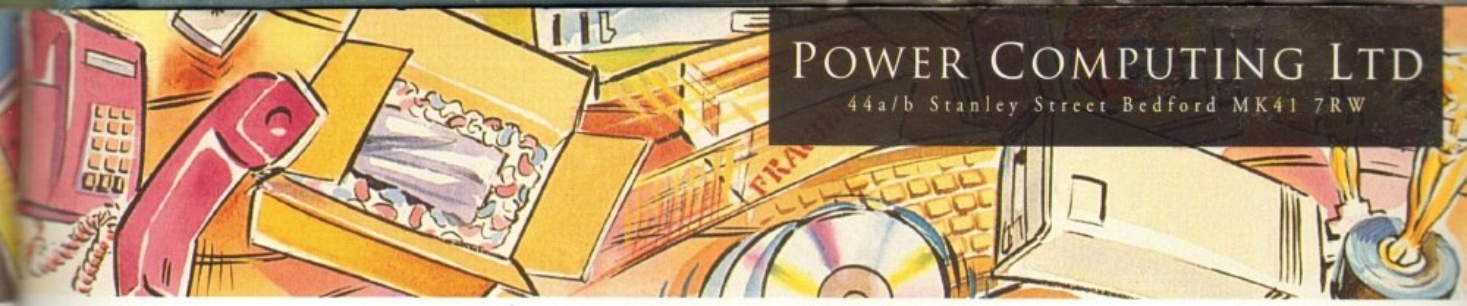
Tandem CD-DE Card

The Tandem CD-DE includes these features

- For 1500/2000/3000/4000
- Supports Mitsuma LU005 CD-ROM & FX001D double speed CD-ROM drives
- Supports Syquest 3.5" drives
- Supports IDE hard drives
- Play audio CD utility
- Requires KickStart 2.04 and above
- Includes cables, software and manual

Tandem CD-DE card **£69**
Tandem CD-DE & Double Speed CD ... **£229**

Goods are sold subject to our standard terms and conditions of sale and are available on request. Specifications and prices are subject to change without notice, and all trademarks are acknowledged. All Power Computing Ltd products come with a back to base 12 month



POWER COMPUTING LTD

44a/b Stanley Street Bedford MK41 7RW

Calcom v.32 bis

- External Fax & Data modem
- Supports up to 57,600 bps
- Full Haynes AT command set supported
- Supports class 1, 2 and 3 fax commands
- Call back security
- Optional power on auto-dial
- Supports error correction + detection
- Leased line support
- Supplied with Amiga and PC software for Windows
- All cables & Power supply included

Calcom v.32 bis **£169**
Calcom v.32 bis inc. TrapFax..... **£199**

Fargo Primera Printer

Now you can produce stunning, high quality output on paper, transparency film or even T-Shirt transfer from your Amiga. The Primera colour printer, recent recipient of countless awards in the IBM-PC and Macintosh markets is also the perfect companion to any Amiga. Primera uses wax thermal transfer technology, a technology usually associated with much higher priced printers. Some of the features include, software drivers for Amiga, PC and Macintosh, optional photo-realistic upgrade kit (dye sublimation) and monochrome ribbon cartridges available for text printing only.

Primera printer..... **£649**
Photo realistic upgrade kit..... **£199**
Photo realistic refill kit (100 prints)... **£250**
Photo realistic refill kit (25 prints) . **£79.95**
4 colour ribbon (80 prints)..... **£38.95**
3 colour ribbon (115 prints) **£38.95**
Monochrome ribbon (400 prints).. **£31.95**
Primera paper (A4 200 sheets) **£18**
T-Shirt transfer paper (A4 10 sheets).. **£17.95**
Primera & Studio DS software **£699**
(Studio software is a true 24-bit printer driver)

XL Drive

The XL Drive can be used with any Amiga Computer, and allows you to store a massive 1.76MB on a high density floppy diskette. The drive can also act as a standard 880K drive and can read and write disks written on an A4000 internal high density drive. XL Drive requires Kickstart 2 or above.

XL Drive external..... **£89.95**
XL Drive internal (all Amigas*) **£79.95**
XL Drive internal A4000 ..... **£89.95**

PC880B Drive

The new updated PC880B is the most impressive disk drive of its kind on the market. The drive includes a strong aluminium casing, an anti-click device, virus blocker, Cyclone compatible chip and the latest built-in backup hardware which allows X-Copy to copy and verify. What's more you can now control these features through your mouse, so there are no more annoying switches to use.

PC880B with Blitz Amiga..... **£70**
PC880B with Blitz & X-Copy..... **£80**
PC880B 1.76MB Upgrade..... **£49.95**

Features	PC880B	Amitek
Anti-click	●	●
Anti-virus	●	●
Aluminium extrusion	●	
Sony mechanism	●	●
Isolation switch	●	●
Thru'port	●	●
Upgradable to 1.76MB	●	
Cyclone compatible chip	●	
Built-in backup hardware	●	
Mouse operated	●	

PC880E Drive

This drive is a high quality external floppy drive at a fraction of the price. As with all of our drives the PC880E has a thru'port, disabling switch and 12 month guarantee

PC880E Economy Drive..... **£49.95**

Internal Drives

We use the same drive mechanisms as Commodore so that you get the kind of reassurance at a cheaper price than other internal drives on the market.

PC881 A500 Internal drive..... **£40**
PC882 A2000 Internal drive..... **£40**

SCSI/IDE Drives

We can supply SCSI or IDE 3.5"/2.5" hard drives in many different sizes. Including cables and installation software.

80MB IDE 2.5" Internal **£179**
120MB IDE 2.5" Internal **£229**
170MB IDE 2.5" Internal **£270**
52QMB SCSI/IDE..... **£169**
80MB SCSI/IDE..... **£179**
160MB SCSI/IDE..... **£249**
200MB SCSI/IDE..... **£349**

Floptical Drive

The Floptical stores 20MB of data on a re-writable 3.5" disk. (A SCSI interface is required)

Floptical A2000 Kit **£289**
Floptical A500 Kit..... **£389**
20MB Floptical Diskette **£25**

Syquest Drives

The new 3.5" removable hard disk from Syquest stores 105MB on each cartridge, with an accessing time of 17ms. An internal and external version is available. (A SCSI controller is required)

3.5" IDE Internal..... **£499**
3.5" IDE External..... **£579**
3.5" SCSI Internal..... **£539**
3.5" SCSI External **£599**
3.5" 105MB Cartridge **£79**

Power Optical

128MB Optical Internal..... **£779**
128MB Optical External **£879**
128MB Optical Disk **£40**
SCSI Controller A2000 ..... **£129**

Dual Drive

Our Dual Drive is packed with the many features of the PC880B whilst having two drives using only one port. This is another original from Power.

Dual Drive **£125**

X-Backup Pro

X-Backup Pro (Hardware designed by us) **£29.95**

Order Form

Name .....
Address .....
.....
Telephone No. .....
System Owned .....
Description .....
.....
.....
I enclose a cheque/PO for £ .....
Credit Card No. .....
Expiry Date .....
Signature .....

Delivery next day £5.00 2-3 days £2.50 Saturday £10.00 deliveries are subject to stock availability.
Please make cheques payable to Power Computing Ltd

TEL 0234 273000
FAX 0234 352207

guarantee. Prices are valid for the month of publication only. E & OE. All prices include VAT. Power Computing Ltd 1994

ROMBO

Rarely will you find a device so highly acclaimed as the Vidi series. A range of products designed to suit both your budget and requirement.

To Offer you complete peace of mind, each and every model is upgradeable to the next. So if you move towards a more professional application your digitiser can progress with you.

No longer are you faced with an out of date product that doesn't fulfill your needs. Its all very well me blowing my trumpet, but what do the journalists think of the Vidi Range ?

After purchase we welcome your comments, its our policy to listen.

In fact the Vidi range was designed by user feedback.

Stephen Bathgate
Managing Director

What the press said...

Alan Puzey AMIGA USER INT... "What can I say ? Between £200 and £300 for an excellent 24-bit real time frame grabber that you can slip in you pocket and take anywhere: it's guaranteed to break the ice at parties when you slip it out and extol its virtues."

Mat Broofield CU... Value for Money, "no other digitiser comes close."

"At £199 I think that Vidi 12 RT is the cheapest real-time 24-bit digitiser in the world, it's the only one for Amiga that doesn't need a big box machine such as the A1500 or 3000."

AUI... "Sorry Rombo, but I'm not going to give it more than the 98% I gave the Vidi-Amiga 12; where would your incentive to produce yet a better machine go then ?

The Vidi-Amiga is one of the greatest graphics products to appear on your favourite computer....its obviously going to be one of the really top Amiga products of 1994."

GOLD USER
JULY 1993

The Vidi Range

AUI AWARDED 98% FEBRUARY 1994

Vidi Amiga 12 is our entry level digitiser. Perfect for someone who's getting involved in video capture for the first time. This model captures mono pictures in real-time, colour in less than a second.
Software includes an Animation Workstation and powerful Image Processing grabs pictures in 4096 colours and 16 greyscales. Comprehensive file support includes BMP, Tiff, IFF, ANIM etc. Fully compatible with all Amiga's.

£99.95

GOLD FORMAT SEPTEMBER 1993

AMIGA MANIAC AWARDED 98% MAY 1993

Vidi Amiga 12RT, is the perfect Multimedia video tool for A1200 users. Offering real-time colour image capture in all Amiga modes including 24-bit.

Fully compatible with all Amiga's, 2 meg or above. Images can be grabbed in 16.7 million colours or 256 greyscales from any video source (TV, Video, Satellite etc.) Connect Vidi to your camcorder and you have one of the most powerful scanning devices available.

£199

CU AMIGA TOP RATED JANUARY 1994

AMIGA SHOPPER AWARDED ★★★★★ FEB 1993

Vidi Amiga 24RT is our most powerful real-time digitiser. Producing SHR (Super High Resolution) true colour images at beyond broadcast quality. Designed for the normal user, but offering truly professional results. For the person who wishes to push his Amiga to it's MAX !

It will capture your imagination, bringing photorealistic images to your screen. Suitable for any image related multimedia, picture scanning application. Although this model is compatible with all Amiga's it is best used on AGA machines or Amiga's fitted with true colour display cards. Most of this advert has been produced using Vidi Amiga 24RT so throw away your scanner !

£299

AMIGA GOLD FORMAT JANUARY 1994

AUI AWARDED 98% JANUARY 1993

Rombo, winners of the coveted SMART Awards 1 & 2 for innovation

Further information and details on how to order

Call: 0506 466601

Rombo, Kirkton Campus, Livingston, SCOTLAND, EH 54 7AZ.

Full working program disk and manual available for £29 also includes FREE image disk.