# ISSUE 3 - OCTOBER 1989 - 22.95 FORMAT

COVERDISKS



PLAYABLE DEMO OF THE SHOOT-EM-UP OF THE YEAR

PLUS

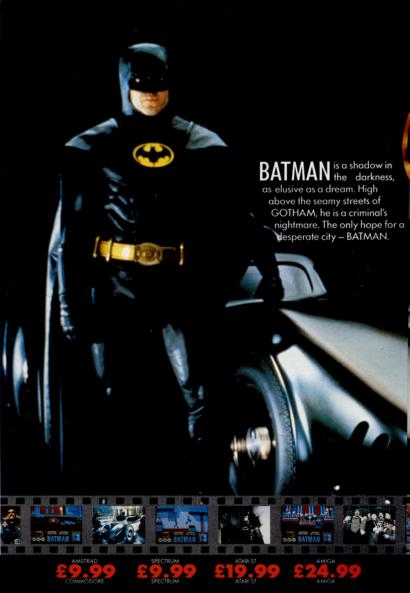
COMMS PACKAGE, ART GALLERY, MUSIC DEMO, WORKBENCH HACKS

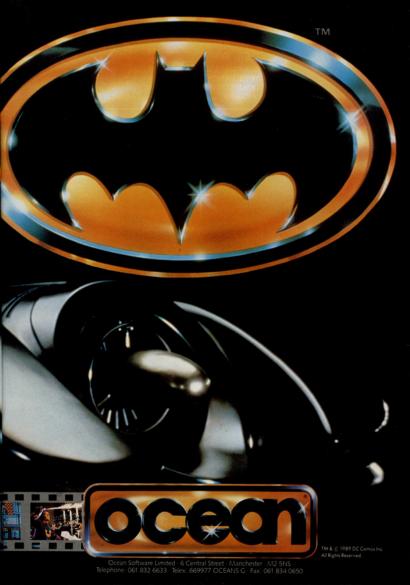
MUSIC ALERT

NO AMIGA SUPERDISK?
DEMAND ONE FROM YOUR NEWSAGENT NOW!

SOUND SENSATION FROM MUSIC X

DIGIPAINT 3 • ADVENTURES • EDUCATION • VIDI AMIGA







**EDUCATION 107** 





In Previews: Knight Force, out soon from Titus.



FITTING KICKSTART 89



**ADVENTURES** 83



DIGI PAINT 3 28



ROMBO VIDI AMIGA 119

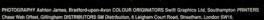


#### AMIGA FORMAT ISSUE 3 OCTOBER 1989

PUBLISHED BY FUTURE PUBLISHING LTD 4 Queen Street, Bath, BA1 1EJ. = 0225 446004. FAX us on 0225 446019

FUTURE PUBLISHING 1989 No part of this magazine may be reproduced without our promission.

EDITOR Bob Wade PRODUCTION EDITOR Damien Noonan REVIEWS EDITOR Andy Smith TECHNICAL EDITOR Jason Holborn ART EDITOR Trevor Gilham DESIGN ASSISTANT Sally Meddings CONTRIBUTING EDITORS Jon Bates (Music), Brian Larkman (Graphics) CONTRIBUTIORS Stevy Jarratt, Graeme Kidd ADVERTISING MANAGER Jennie Evans AD PRODUCTION Louise Cockroft PUBLISHER Greg Ingham.
SUBSCRIPTIONSMALL ORDER The Old Barn, Somerton, Somerset TA11 7PY Tel: 0458 74011





The Amiga Format team, except for Jennie Evan Left to Right: Andy Smith, Bob Wade, Sally Medding

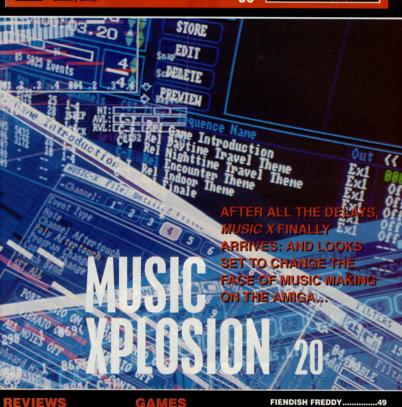
#### **XENON II, MEGABLAST**

Probably the best shoot-em-up in the world, and this month's playable demo

ACCESSI: excellent and beautifully-presented communications package · DEMO CORNER: chillin' music demo created especially for Amiga Format - DPAINT CLIP ART: for use in conjunction with our DPaint tutorial - WORKBENCH

HACKS: two more fun hacks - POPDIR: Workbench





		-11.17	
7	- 1	-1000	

MUSIC X	20
ROMBO VIDI AMIGA.	30
DIGI PAINT 3	28

#### EDUCATION .....107 ADVENTURES .....83 **DESKTOP PUBLISHING ..65** FITTING KICKSTART .....89

F16 C0	MB.	ΑT	1	1	L	0	т.	i.	 	4	ľ
STRID	ER			ı	ı				 		1
WATER											
XENON											
	R	Ε	٧		Ε	w	Ε	D			

	R					
ALIEN LE	GI	10	N.		 4	5
ASTAROT	н				 5	6
DOMINAT	O	₹			 4	0

FIENDISH FRED	DY49
<b>GEMINI WING</b>	50
<b>JACK NICKLAU</b>	S GOLF39
OIL IMPERIUM.	45

#### SKATE OF THE ART ..... COMPETITION

WIN £800 OF TV,	VIDEO
<b>AND JOYSTICKS</b>	3

#### THEATRE OF DREAMS

hester United Football Club have been much in news lately for their expensive signings. Now they e making news on the Amiga as well, because of a ne based on the club's exploits.

It is still early in production but pro to-scale representation of Old TraffordTheatre of reams, produced on a scrolling area 15 screens in size. There's a lot of competition around for footie mes at the moment: can Man Utd make it to the top of the league?



### **LONDON VIDEO ACCESS**

If you have not been able to make head or tail of any of the articles about using Amigas in video and yet are interested in knowing more, perhaps you need the advice and assistance of London Video Access.

The LVA is a centre for artists working in video and has recently acquired two Amiga 2000s. This is so that, as well as providing cheap facilities and distribution for artists and independent video producers, they can give help to artists working in computer graphics.

For more information on the LVA facilities and courses. contact Clive Gillman on 01 734 7410 or write to him at 23 Frith Street, London W1V 5TS.

#### INSIGNIFICANT CHASE

It has been a long wait but the Amiga version of Trivial Pursuit - Genus Edition has arrived. Like the other computer versions it makes use of graphics and music for some of the trivia questions, to enhance the classic yuppie board game.

There are over 3,000 questions, all of them utterly pointless as is only right and proper. Out now from Domark at £24.99.



The yuppie game of the '80s makes it to the Amiga.



#### **A COMPANY** OF KITS

The Disc Company has announced two new compilations of programs called the Home Office Kit and the Starter Kit.

The Home Office Kit comprises a word-processor, DTP program, spreadsheet and database: all the essentials for working at home. The Starter Kit is aimed at first-time users looking to explore the potential of the Amiga and is made up of a word-processor, an art package and three games.

The word processor in both kits is KindWords 2.0, which has a 100,000word spelling checker and a 470,000word thesaurus. The DTP program is PageSetter 1.2, which has previously been bundled with KindWords in the Publisher's Choice package, reviewed in last month's DTP special.

The spreadsheet is Maxiplan 1.9 which has Lotus 123 compatibility and graphics capability. The database is InfoFile, ready equipped with 10 templates for databases for a video library, club membership manager and so on. Handy for the beginner.

The art program in the Starter Kit is Fusion Paint and the three games are Crazy Cars, Super Ski and Miniature Golf.

Both packages are excellent value for money, the Home Office Kit costing just £149.95 and the Starter Kit only £69.95. The Disc Company don't have a UK office so check out their advert in this issue for more details.



#### YET ANOTHER DIGITISER!

New from Power Computing is Videon, a full-colour digitiser. Videon is a powerful software/hardware combination that allows you to digitise images from any colour video source without having to purchase a separate RGB splitter. Videon employs digital filtering to allow the most detailed grabs possible.

Using a special bypass system, Videon allows you to view both the source video signal and the final grab on screen simultaneously, therefore avoiding the need for constant swapping of leads. Screen resolutions supported include high, medium and low in both standard or overscan mode.

Unfortunately, our review model turned up too late for this month's issue, but look out for the next issue of Amiga Format for a full review. For further info, contact Power Computing on 0234 273000.

#### ALL GENNED UP

MAXIgen is a new genlock/coder providing 'broadcast quality' (the 'in' term in Amiga video) output. It's not cheap though, weighing in at £750.

50 what do you get for your money? Twin RGB and composite video output channels, video-only mode, Armiga graphics-only mode, key on background mode, burst witch and enough technical detail to explode all your diodes. More details from Applied Systems and Peripherals on 0724 200222.

#### FLYING EYE TO

Legotron have come up with a movel promotion for their novel promotion for their novel promotion for their novel promotion for their novel programmes an arcade adventure based on Egyptian myth and programmed by Denton Designs – responsible for games like Where Time Stood Still and The Green Stood Still and The Green What better way to promote it than to send a lucky competition winner to Calro, the capital of Egypt?

Each copy of the game will contain an entry form and, as well as the first prize of a week's holiday in Cairo for two, there are five runner-up prizes of ancient Egyptian tarot. The game should be out by the end of the month and the competition will close on 28th December. More from Logotron on 01 359 3594.



#### RETURN OF THE TRILOGY

The original Star Wars film is over 10 years old now, but the trilogy of films is still as popular as ever. So, it would seem, are the games that first appeared in the arcades and then as conversions from Domark, because they are being released as a compilation.

The first two games – Star Wars and The Empire Strikes Back – are vector graphic shoot-em-ups, while Return of the Jedi is a diagonally-scrolling shoot-em-up in the Zaxxon mould. All three games are available at just £24.99 from Domark. Tel: 01 780 2222.

#### **FANTAVISION**

As a result of the deal signed with Broderbund in the US, Domark have released the graphics program Fantavision. It was first reviewed back in ST/Amiga Format Issue 7, where it received a warm welcome, particularly for anyone new to animation.

Its main use is to create animated sequences via a process called tweening which avoids the usual animation process of drawing every single frame in a movement. Fantavision is priced at £39.99 from Domark/Broderbund on 01 780 2222



Animate away with Fantavision.

#### GETTING DOWN TO BUSINESS

Arnor software have announced the impending release of

ProData, a database management system to complement their popular word processor. Protext.

ProData will be available on several systems including both the PC and ST, and therefore (like Protext) provides complete data compatibility between these different makes of computer. You could for example, create your database on a PC, add records on your friend's ST and then use the finished system on an Amiga. Among ProData's list of facilities are record filtering, password protection, macros, foreign language compatibility, file management and others. Arnor are on 0733 68909.

#### BRITISH MUSIC FAIR

The biggest thing to hit the British Music Fair, besides the heatwave, was the MusicX stand (see review). Now under the wing of SDL distributors, who have opened a special music division, it was a colourful stand which had monitors at every conceivable angle and position.

There was no showing from Commodore, but other Amiga programs were on the MCM stand. Here the complete range of Dr T programs for the Amiga was on show, and MCM are promising Master Tracks Pro from Passport Systems in a week or two's time. Conspicuous by their absence were the Evenlode team who are launching several new programs, including the long-awaited Steinberg Pro 24 for the Amiga. Soundbits were there, however, demonstrating the Comus range of sequencers (as rev-lewed last month) and demonstrating the new ProScore scoring package for £229.







#### MUSICAL GURU

For many years, the infamous Sound Tracker utility has ruled supreme as the choice for programmers wishing to create scores for their creations. UGA Software, who are probably better known for their work within the Amiga PD scene, have produced Musical Enlightenment, a package that looks set to give Sound Tracker a run for its

oney.

Musical Enlightenment provides powerful tools to allow the creation of tunes using a pattern based system similar to that used so well by Sound Tracker, As wall as song creation, the program also includes complete sample manipulation tools to aid the creation of that perfect patch. UQA hope to release Musical Enlightenment in December for the impressive price of only C15. For further information, contact 17 further information, contact 17 silt Software on 0294 366992.



Devil dogs and the British museum - only Electronic Arts know the connection.

### BARKING AGAIN

Last month's eerie note, which we received in the post reading "The Hound of Shadow is upon you and you bear his mark", was not followed by voodoo doggy dolls, but by an application form for membership of the British Museum reading room and a photo of same, circa 1920.

It's one of the better publicity stunts flying around at the moment, publicising Electronic Arts' game Hound of Shadow. Watch this space for next month's chilling instalment. There's bound to be one.

#### ANOTHER ABACUS BOOK?

Yes, it seems that not a single month goes by without Abacus Software releasing new products for the Amiga. This month sees the release of Abacus's latest book for bofflins Amiga Graphics Inside & Out and for those of you worried with viral infections, Abacus have produced a disk/book combo in the shape of the Virus Protection Toolkit.

Amiga Graphics Inside & Out vides an in-depth look at the miga's powerful graphics system om a BASIC, C and Assembler oint. The book describes the dividual elements of the Amiga's graphics system such as ViewPorts, RastPorts, screens and windows. For programmers, the book looks at ew ways of accessing the graphics-related libraries and custom chips from the three major lan uages to produce HAM displays, colour patterns, screen and window ps, blitter objects, copper lists nd so forth

Abacus's Virus Protection
Toolkit is a complete Virus-busting
package that provides an insight
into how viruses work (including
commented source code!), what
problems viruses cause, how
viruses lodge themselves into the
Amiga system and how to cure your
Amiga of viral infection.

#### INTECTING CLID ART LIGHT BOXING

Anyone experiencing a clip art shortage is about to have their problem solved by seven disks of the stuff from Photofile.

It's mostly aimed at DTP users because it is all mono: but since all the clip art is in IFF format it can be used in just about any art program as well. The clip art is a collection imported from other machines and digitised on the Amiga itself. There are hundreds of pictures on the seven disks and the whole lot costs £35 from Photofile, PO Box 49, North PDO, Nottingham NG5 6SR. Tel: 0602 251498.

Photofile also operate a digitising service, producing pictures in enhanced HAM, hallbrite, high-res and lo-res formats. More details on that can be got from the same number or from Issue 12 of ST/Amiga Format which carried a feature on them. LightBox is a new tool for animators that has a very specific purpose: creating cel animations. It's aimed at the serious animator and comes from R&DL Productions, creators of Approfessions.

The program allows you to see three animation cels at a time: current, previous and following, if there is one. They can be run or stepped through, drawn on, cut and pasted and path-of-motion lines can be drawn for reference. It's a hi-tech tool for an art from that still uses fairly old-fashioned hand-drawn

LightBox is available from HB Marketing, Brooklyn House, 22 The Green, West Drayton, Middlesex UR7 7PQ, Tel: 0895 444433.



PC SHOW

Don't forget folks: the PC SHOW takes place on 30TH SEPTEMBER + 1ST OCTOBER at EARLS COURT.

Variable Dither -

Computed internally at 30 bits per pixel (over one billion colors). Gives you over 100,000 apparent colors on screen.

#### Sophisticated.

Flexible Text Rendering -Allows for anti-aliased fonts, Rainbow Fonts and Transparent Fonts and more.

#### Revolutionary.

User-Controllable

Transparency - Allows real time control of the amount of transparency and the location of the light source.

Unmatched.



Super BitMaps with Auto-Scrolling - Realtime scrolling on up to 1024 pixels high or wide image with full overscan display.

#### Flexible.

Colorize - Play Ted Turner and add color to black-and-white images or change colors on already colored images.

#### Powerful.

Texture Mapping with Anti-Aliasing - Gives you super-fast warping and stretching of any image.

#### Intuitive.

100% Assembly Language - Makes Digi-Paint 3 the fastest HAM paint program ever!

#### Unlimited.

Transfer 24 - Digi-Paint 3 comes with Transfer 24 image processing soft-ware to give you support of all Amiga resolution modes and the same advanced image processing found with NewTek's best-selling Digi-View Gold Video Digitizer.

# The <u>Ultimate</u> Paint Program: **DIGI-PAINT**

For more information call NewTek at 0101-913-354-1146 Digi-Paint 3, Digi-View Gold and Transfer 24 are trademarks of NewTek Inc. N≣wT≣K

# **QUESTIONNAIRE RESULTS**

The last issue of ST/Amiga Format, our 'parent' magazine, contained a questionnaire so that we could find out exactly how to make this the best possible magazine for you. We printed some of the comments from them in issue One and now we have the analysis, and the results of the competition.

The five lucky winners of a subscription to Amiga Format are: James McFadden, Monaghan, Ireland; Graham McLean, Cuckfield, West Sussex; AP Hovasse, London NW6: MD Weaver, Crowthorne, Berks: Paul Best, Bath, Avon.

The forms were revealing and very helpful. Sadly there was no surprise about gender: a mere 2% OF YOU ARE OF THE FEMALE persuasion. Computing, it seems, remains a male bastion.

You're a mature bunch as well. 82% ARE OVER 17, while the biggest chunk of 42% is in the 17-24 bracket. The fact that so many are old enough to work also shows up in the salary levels. 32% EARN MORE THAN £10,000 A YEAR, so there is plenty of disposable income there for spending on hardware and software.

The top three newspapers were the **DAILY MIRROR AT 14%** and the Sun and Daily Mail at 10%. Fourth most popular was the first of the non-tabloids, The Guardian, at 7%.

No doubt about which of the Amiga models is most prevalent - 95% HAVE A500S, but only 3% have A1000s and 2%

A2000s. 35% also have another make of computer, so obviously a lot of people wanted to hang onto their old machine when upgrading to the Amiga.

Nearly everyone (91%) HAS A JOYSTICK and four other items are out there in large numbers - 54% have a monitor, 53% a printer, 46% a second drive and 41% a memory upgrade. The memory upgrade is the most popular intended purchase for the next year with 49%, then comes a second drive at 44%, hard drive at 38% and printer at 35%. On the software side 94% own games, 83% an art program, 54% a word processor and 40% a music program.

No surprise about what Amigas are used for – **56% FOR LEISURE**, 33% for creativity and only 12% for business.

The vast majority spend up to £40 A MONTH ON COM-PUTER GEAR and over the next year the average planned spend is £346 on hardware, £140 on games, £77 on creative software and £67 on serious. That is over £600 spent per person next year, a massive amount of money.

When it came to rating the most popular sections there was only one possible winner, THE DISK. Also scoring very highly were WORKBENCH, software and hardware REVIEWS, SPECIALS, PD, NEWS and SCREENPLAY.



#### AMIGA 31/2" DISC DRIVE

- 880K Formatted Capacity Throughport to allow connection of other drives
   Enable/disable switch to allow loading of memory greedy programs Similine design Meets all European/British safety standards Has very long data cable
- Compatible with Amiga 500/1000/2000 and 
  PC1 = 12 Month Warranty = Very quiet reliable 

  79.95

industry standard drive mechanism ■ Already used by Commodore of Finland INCLUDING VAT + P&P

ATARI STFM/PCI 31/2" DISC DRIVE

Internal power supply to European safety standards
I megabyte capacity © Complete with all cables
to connect to STFM and PCI III Reliable industry
standard mechanism © Power on indicator.

INCLUDING VAT + P&P

Vice Vau
LIMITED
Send your order now to:

Send your order now to:Old Kingsmoor School, Railway Stree
Hadfield, Cheshire SK14 8AA.
Tel: 04574 66555/67761/69499
Fax No.: 04574 68946.

# EXTERNAL DISC DRIVES FOR YOUR ST OR AMIGA FROM THE VIDEOVAUL

ALL WITH HIGH QUALITY JAPANESE MECHANISMS

AMIGA 5¼" DISC DRIVE

■ Standard 5.25 media ■ Enable/disable to switch drive on/off ■ 1.3m cal Ragged metal slimine case ■ Compatable with all Amigas ■ Can be used with Bridge Board on A2000 ■ Transformer on A500, A1000

ATARI STFM ONLY 54" DISC DRIVE

Internal PSU II 1 megabyte capacition
Rugged metal case III Quiet operation
All cables for direct connection III Power
on indicator III Meets all European safety
INCLUDING V

TELEPHONE: 04574 66555

NOT FOR USE WITH PC1, PC1 DRIVE

INCLUDING VAT + P&P

l authorise you to charge my AccessVisa card no.





# SUBSCRIBE

NOW TO AMIGA FORMAT

# YOUR MAGAZINE DEDICATED TO YOUR MACHINE

Only £29.95 for 12 action-packed issues, a saving of £5.00 from the cover price (and we even pay the postage for you!)

Ring 0458 74011 NOW, quoting the order code AM100 and having your credit card handy or use the order form on Page 120. Why not order some of the latest and cheapest products from The16 Bilitz at the same time!

Remember our unique guarantee: we will refund the cost of all unmailed issues, if you are not completely satisfied with our subscription service.

- \* Hotline Number 0458 74011
- \* Order Form on Page 120
- \* Be sure you get your copy before the newsagent sells out
- \* Get our regular quarterly "UPDATE" of extraspecial savings on products that we didn't quite manage to squeeze in the magazine!



E29,95

FOR 12 ACTION-PACKED ISSUES

Computer shopping is fun at the Computer Shopper Show!



November, Computer Shopper will turn Alexandra Palace into the world's greatest computer show. Everything you need for business and leisure computing will be available under one roof - with experts to help you make the right choice!

The Computer Shopper Show is your chance to meet the dealers with the bargains, the manufacturers with the latest machines - and to take away the things you buy on the day!

Auctions, demonstrations, competitions . . . everything that you've ever wanted from an exhibition will be happening at the Computer Shopper Show - the only show for the direct buyer and the ultimate computer shopping experience!

And, with Computer Shopper you know you'll save money!

Why not start right here! By ordering your tickets in advance you will save £££s! Simply complete and return the coupon with your payment or telephone the Credit Card Hotline on 051-357 2961 to place your order.

To place your order by Prestel, Key +89, then 614568383, Microlink users should key 72 MAG 001. Please quote your credit card numbers and your full name and address when you place your order.

SAVE	EEES	WH	ΙEΝ	YOU	BUY
OUR T	<b>FICKE</b>	TS	IN A	DVA	NCE!

Yes! Please	send me n	my tickets f	or the	Computer	Shopper Show!	

- Adult tickets at £3 (Save £1!)
- Under 16s tickets at £2 (Save £1!)
- Family tickets admits up to 2 adults and 2 children £9 (Save £5!) TOTAL
- ☐ Cheque made payable to Database Exhibitions Ltd Credit card Access Visa Expiry Date

Name

Address

Postcode Please return your completed order form to -The Computer Shopper Show Ticket Office, Database Exhibitions Ltd, PO Box 2, Ellesmere Port, South Wirral L65 3EA. A 810

TELEPHONE HOTLINE Place your orders for tickets by calling 051-357 2961

Alexandra Palace, London 10am-6pm Friday, November 24 10am-6pm Saturday, November 25 10am-4pm Sunday, November 26

- Over 250 stands serving every major make and model - the ultimate computer hypermarket, packed with pre-Christmas bargains and offers. Incorporates the Amstrad Computer Show, the Atari Computer Show, the Electron & BBC Micro User Show and much, much more!
- On-site car parking for hundreds of cars - ideal for taking away your computer bargains on the day!
- \* Excellent public transport network with courtesy coach link to the local British Rail station.
- \* Special show features and entertainment to make your shopping experience fun!
- \* Special discount tickets for under 16s and family groups.

Sponsored by

DATABASE

Organised by **EXHIBITIONS** 



## GET LOST

In the world of Creative Computing at Sabretech.... The South's Premier Computer Music Centre !!!

(We also stock a large selection of the latest Graphics Utility and

Games Software all at competitive prices!)

#### PHONE OUR HOT LINE ON 01 760 0274



ROLAND	RRP	SABRE
CM-64 Multi-Timbral Sound Module	789.00	699 99
CM-32L Multi-Timbral Sound Module	369.00	329.99
CM32P Multi-Timbral Sound Module	445.00	399.99
CF-10 Midi Mixing Controller	129.00	115.99
MA-12C Monitor Speaker (12 Watts)	105.00	89.99
CM-64/32P Sound Library Cards	45.00	39.99
CHEETAH		
MK5 Midi Master Keyboard	149.95	135.99
MK5 V Midi Master Keyboard		
MD16 16 bit Digital Drum Machine	299.95	264.99
DP5 Electronic Power Play Drum Kit	174.95	154.99
MS6 Multi-Timbral Sound Module	299.95	264.99

AMIGA A500 SPECIAL OFFER HIGH QUALITY

512K MEMORY EXPANSIONS Includes: Battery Backed Clock On Off Switch 51 meg PD Disks Pocket Calculator

VAT & Postage For Only £109.99

eques and Postal Orders made payable to: All Prices Inc. VAT & Postage Sabre Computer Discount Centre within UK Mainland Units 74/75, Inshops, All goods subject to availability 68-74 Church Street, Croydon, (Prices correct at time of going to press). Surrey CR0 1RB

If in Doubt Check us out " ... We Are Open Mon - Sat 9.00am to 5.30pm. Or Phone Us Now On 01 760 0274

#### FTWAR SCOU

#### FROM MJC SUPPLIES

#### WORD PROCESSING

PROTEXT V4.2 This must be the

This must be the most powerful word processor available for the Amiga. Excellent speed and wide range of features make it the only WP to buy. Includes Mail Merge and Spell

DDDC00 05 Our Price £64.95 Useable demo disc available - £7.00

FILER AND OFFICE Two utilities for Protext only. Filer is a data manager ideally suited to Mailing

List applications for use with Protext's mail-merge routines. OFFICE gives all the features of Filer but adds lations ideal for invoice FILER RRP £24.95 ......OURS £17.95 OFFICE RRP £34.95 .....OURS £24.95

Kind Words 2... Micro Text **SPREADSHEETS** 

20.95 28.95
28.96
-6

licro Base	.15	95
mega File	18	95
-Data	32	95

icro Base	15.95
mega File	18.95
	32.95

PRINTERS All printers listed have a ten-inch (A4) All printers issted have a terr-inch (A4) carriage, are Epson compatible and accept cut sheet or continuous paper. The relevant printer cable is also included free of charge. Delivery is 7- 10 days from date of cheque/credit card clearance. For next day (after

clearance) delivery add £5

CITIZEN 120-D
Cheap Epson FX-80 compatible giving a range of text sizes and effects in draft mode, limited sizes and effects in NLO. £139.95

PANASONIC KXP-1081

Good print and build quality, very reliable. Offers all the draft mode sizes and effects of the FX-80 compatibles in NLO as well. Best Value. £159.95

STATE -10
As well built and reliable as the Panasonic. Four different typefaces all available in the full range of sizes and Well worth the little extra.

STAR LC-10 COLOUR All the features of the LC-10 but with the addition of 7 colours in several shades. Uses the Epson JX-80 printer driver from Workbench or your graphics program. £214.95

STAR LC-24/10 24 pin version of the LC-10. Has 5 typefaces, all usual sizes and effects, two extra effects (Outline and Shadow) and excellent pri c269.95

EDUCATIONAL games per disc Fun School 2 (2-6 years)... Fun School 2 (6-8 years)... Fun School 2 (8-12 years).

The "Discover" range have 6 games per disc Discover Alphabet (6+ yrs) 15.95 iscover Numbers (6+ vrs)

Discover Maths (10+ yrs) **OUR TOP TEN GAMES** 

ALL of our top ten have been released prior to going to press. Balance of Power 1990 3-D Pool HVF Honda 16.95 Indiana Jones Last Crusade... Jack Nicklus Lords of the Rising Sun 10 05 hunderbirds

GRAPHICS	
Digi Paint	41.95
hantavision	29.95
Photon Paint II	68.95
Deluxe Paint II	54.95
Deluxe Paint III	59.95
COLIND	

lew Zealand Story...

AMAS-Sampler & Interface .. 74.95 Aegis Sonix... Music Studio

#### COLOUR MONITOR

PHILIPS CM8833 This excellent monitor features stereo sound as well as good definition for text and graphics. Price includes cable and two day (after payment clearance) courier de livery. €230.00

#### ACCESSORIES

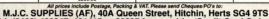
A500 Dust Cover	3.95
Mouse Mat	3.95
A500/2000 - Printer Cable .	6.95
Quickshot Turbo Joystick	10.95
Competition Pro 5000 J/S	12.95
3.5" Disk Head Cleaner	5.95
A501 Memory Expansion	139.95

#### PROGRAMMING

K-Seka (assembler)	34	.95
	39	9
Hisoft Basic (inc. Book, Amiga E	Basic	
Inside & Out - while stocks last	59	.95
GFA Basic 3	49	
Metacomco Pascal	68	95

#### BOOKS

	12
AmigaDos Ref.Guide	14
	12
Amiga Basic Inside & Out	18.
Elementary Amiga Basic	14
Advanced Amiga Basic	16
The C Language (by K&R)	23
Pascal Beginners Guide	6



Tel: (0462) 420847, 421415 or 32897 for enquiries/Credit Card Orders







All prices include VAT/delivery

#### MIGA ACCESSORIES A501 RAM/clock expansion for Amiga 500 C119 00 695.00 MiniGEN Genlock adapter Contriver Hi-Res Mouse, includes Mouse Mat & Pocket .. £22.95

ITT CP3228 16.5° FST TV/Monitor inc. rem/control & cable .... £229.00 £229.00 Philips CM8833 colour monitor suitable for Amiga 500 ... Philips CM8852 monitor as above, but higher resolution £259.00 .. £74.95 lips TV Tuner AV7300, use with any composite monitors C149 95 Word Perfect ... uperbase Personal 669.00 Superbase Professional €179.00 €74.95 A500 Dust Cover €4.95

A-MAX MACINTOSH **EMULATOR** 

i. Huns at least as tast as a Mac Plusi compatible with the A-Max includes at. MacDraw (V1&2), MacWrite, ser (V1&2) plus all versions of System. tithout 2 x Mac 128K ROMs ...... £129.00 //TH 2 x Mac 128K ROMs ...... £249.00

#### vortex system 2000 hard disks

Now available - Vortex 'System 2000' hard disks, offering versatile high-capacity storage, suitable for use with the Amiga 500 and Amiga 1000. The units are of a high specification, with a formatted capacity of over 42Mb and an average access time of 45Ms. The system consists of a hard disk base unit, cables and an Amiga interface module, with utilities software including an autoboot facility and a hard disk backup utility. System 2000 40Mb Hard Disk package ...

#### All prices include VAT/delivery & cable



Hugely successful 9 pin printer, the Star LC10 provides 4 NLQ fonts (with 96 print combinations) at 36cps and 144cps draft. Has a large 4K buffer and IBM/parallel interface built in, includes a comprehensive front panel operation and features paper parking, allowing single sheets to be used without removing tractor paper.

Only £179.00 Colour version also available, Only £229.00

Prices include 2 extra black ribbons free of charge.

r LC24-10 multifont 24pin printer, amazing new low price	£239.00
r SF-10DJ / DK cut sheet feeder for LC-10 / LC24-10	. £64.95
r NB24-10 24 pin printer 216/72 cps,	
	£499.00
	£329.00
nasonic KXP1081 reliable 9pin 10* printer 120/24 cps	£169.00
nasonic KXP1180 super new 9pin multifont 11.7" carriage	£199.00
	£319.00
nasonic KXP-37 out sheet feeder for KXP1180	£95.00
	£109.00
son LX400 (was LX800) 9 pin 10* 180/25 cps	
	€319.00
	£74.95
	£319.00
	£139.00
zen HQP-45 bargain value wide carriage 24pin	£399.00
nnesmann-Tally MT-81 9 pin 130/24cps	£149.00

#### EXTERNAL DRIVES using Citizen drive mechanisms



- Suits Amiga 500 or Amiga 1000
   Top quality Citizen drive mechani
   On / Off switch on rear of drive

- Throughport connector
   One megabyte unformatted capacity
   Slimline design

Very quiet
 Long cable for location either side of computer
 Full 12 months guarantee

£74.95 inc.VAT and delivery

Ultra low price!

How to order from Evesham Maros



card details on: T 0386-765500

#### Now available - Our New Low-cost 5.25" External Floppy Disk Drives

We are now supplying the new, good quality RF542C 5.25° floppy drive compatible with the Amiga. Quiet in operation, the unit is colour matched to the Amiga, and has a throughport connector. The drive is capable of a number of configurations including 40/80 track switching and 360/720K format, giving full 'Transformer' compatibility.

Only including VAT

& delivery

**OMEGA** projects MIDI INTERFACE Good value, low cost compatible with interface, completely compatible with all music software currently available that uses MIDI capabilities. Connects to the serial port, and features diagnostic display indicators to enable the user to locate the source of a fault. Supplied with 30" serial

ONLY £29.95

DOUBLE TAKE! PYE TV/MONITOR (MODEL 1185)

ONLY £269.00

#### 3.5" Disks 10 Bulk packed DS/DD 3.5\* disks

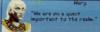
with labels, fully guaranteed ... 25 bulk disks as above ...... £11.95 £27.95 £13.95 10 disks as above with plastic case .... 25 disks as above, with 40 capacity storage media. Box of 10. £17.95

Phone us with your ACCESS or VISA

All prices include VAT and delivery. Express Courier delivery £5.00 extr Evesham Micros Ltd Send cheque, Postal Order or ACCESS/VISA card details 63 BRIDGE STREET EVESHAM WORCS WR11 4SF Govt., educ. & PLC orders wek

Same day despatch whenever possible All goods subject to availability, E.&O.E. Open to callers 6 days, 9.30-5.30 © 0386-765500 fax 0386-765354 telex 333294

Also at: 1762 Pershore Rd., Cotteridge, Bi ngham B30 3BH Tel: 021 458 45



















#### FAST LANE Artronic will soon be releasing

this card-driving sim based on Creategory sports cars, which has been designed with a great deal of help and assistance from C1 specialists Spice Engineering. The object of Fast Lane is to win the sports car racing drivers' world championship title by competing against 20 other top drivers in a series of races at such crouts as Suzukia, Le Mane, Brands Hatch and Djon.

#### DYNAMITE DUX

Coming soon from Activision is this wacky coin-op with an unlikely pair of heros, Bin and Pin, who only happen to be ducks. Well, anything goes in coin-op land and just to prove it they'll be fighting against such nasties as Sumo Pigs and Boxing Croccolles! Based on the Sega arcade machine, it's a hori-

# COMING ATTRACTIONS

EARLY NEWS AND PICTURES OF THE GAMES YOU'LL BE PLAYING

zontally-scrolling beat-em-cum-shoot-emup with bags of playability.

#### KEEF THE THIEF

Electronic Arts will soon be releasing this tongue-in-cheek role-playing adventure which features stunning graphics, loads of music and bags of humour. There's magic, combat (arcade-style, with the action viewed through the player's helmet visor) and

plenty of thieving to be done. But if you

fancy your RPGs a little more serious, you'll soon be able to get your hands on Sword of Twilight, a fantasy RPG with arcade elements. In

RPG with arcade elements. In the game there are eight parallel worlds joined by a magical road. Seven evil Shadowlords (aren'! Shadowlords aways evil!) have intested the worlds and only the player's homeland is holf-ing out. To save the day you'll have to seek out seven enchanted swords and return them to their original road their original road.

#### MYSTERY OF THE

For those of you who tancy playing detertive, you'll soon have the chance with Rainbow Arts' next release. Mystery of the Murmey is an adventure game in which a series of batting murders infeed to an African murmey are keeping the whole city in suspense. The game is menu-driven and features some 60 digitised pictures of original charcoal drawings.



TIME

From Empire comes Time, an animated adventure which takes the player on a hectic and dangerous journey from a space-age future to some of the most exciting eras of the past. There are over 100 locations and some 60-odd characters to interact with leach can be viewed as either a fully-animated face or as a side-on figure).

Also from Empire is a footy sim endorsed by Tottenham Hotspur's Paul Gaspoine, Gazza's Super Soccer wilfeature a full range of League and Cup matches and a host of shots and options to choose from. Footy fans, get your boots on!



#### **PICTIONARY** Domark will be following up the

immensely successful Trivial Pursuit (the Amiga Genus edition is also due for release real soon) with the launch of Pictionary. The game is played in a similar way to charades, only on paper. Instead of acting out a word or title, you and team mates must try to guess the various words by sketching clues to each other. Get your pencils sharpened!

#### **RAINBOW WARRIOR**

Greenpeace, the international environmental pressure group, has joined forces with MicroProse to bring us the official Greenpeace game. The game brings its audience into contact with some of the key environmental campaigns of our time. Issues covered include the destruction of the ozone layer, nuclear power, the dumping of radioactive waste, untreated sewage discharge into the sea, the slaughter of seal pups and the continuing whale hunt. You play the part of a Greenpeace cam paigner, determined to protect wildlife and stop the pollution and destruction of the natural world

#### CROSSBOW - THE LEGEND OF WILLIAM TELL

Coming from Screen 7 is this animated adventure in which you play Tell and aid him in his search for his son (the one he shot the apple off the head of). The action takes place in and around Tell's village, in surrounding settlements and in the towers and dungeons of Tell's arch(ery) enemy Gessler. String up your bow and shoot those poison arrows.

#### THE UNTOUCHABLES

Ocean will soon be launching their interpretation of the critically-

acclaimed movie starring Sean Connery You control five Untouchables through six different stages of (mostly) shoot-em-up action culminating in a roof-top shoot out. It's not all blasting action, though, as there are distinct strategic elements that have to be considered. There are even more strategic elements in Last Patrol. where you have to guide a platoon of GI's from behind enemy lines in Vietnam back to your own lines and safety - but beware, one of your group may prove to be a bit of rat.

#### KNIGHT FORCE This twenty-five-level, five-stage

horizontally-scrolling beat-emup features some impressive backgrounds and plenty of sword-wielding action as you try to rescue the princess Tanya who's been captured by the evil sorceror Red Sabbath.

# A FASCINATING COMPANY



WHETHER YOU'RE RUNNING A SMALL BUSINESS, A LOCAL CLUB OR A BUSY HOME:
THE HOME OFFICE KIT INCLUDES EVERYTHING YOU NEED FOR EFFECTIVE MANAGEMENT.

#### KindWords 2.0



The ideal Word-processor for impressive, accurate business communication.

#### PageSetter 1.2



An incredible DTP system to produce professional brochures, newsletters etc...

#### Maxiplan 1.9



The best selling Amiga user magazine spreadsheet award winner.

#### **InfoFile**



A powerful database which can store all your information. An inclusive set of ready-made file formats helps you get down to business from day one.

#### CaleFonts & Artists'Choice



Over 35 purpose-designed professional fonts.

A fabulous clip-art library of over 200 graphics.

#### HOME OFFICE KIT

GET ORGANIZED WITH THE BEST HOME PRODUCTIVITY KIT AVAILABLE FOR YOUR AMIGA £149,95

Both kits are available from: Addons: Southampton; SDL: London 01-300 3399; GEM: Harlow 0279-412441; HB-Manketing: West Drayton 0895-444433; Amiga Centre: Edinburgh 031-557 4242 or Microbaaler: Milton Keynes 0908-74000. For Further Information contact The Disc Company: Paris 33-14 53 10 53.8 P43-216, P750 Faris Cedex 16.

# FASCINATING COMPANY



THE DISC COMPANY PRESENTS THE PERFECT COMPANION FOR YOUR AMIGA: THE STARTER KIT, A COLLECTION OF SUPERB GAMES AND ENTERTAINMENT SOFTWARE WHICH WILL BRING OUT THE BEST IN YOU AND YOUR COMPUTER.

#### KindWords 2.0



Simply, the world's best selling Amiga word-processor with a 100.000 word British Dictionary and 470.000 word Thesaurus.

#### **FusionPaint**



An easy to use paint package that allows your imagination to run wild.

#### **Miniature Golf**



Select your course, your clubs and don't forget to shout "Fore!!!"

#### **Crazy Cars**



Stunning graphics take you on a hair-raising ride through America.

#### Super Ski



All the thrills without the spills! Compete in the downhill race, slalom and giant jump.

#### STARTER KIT

MAKE FRIENDS WITH YOUR AMIGA. INTRODUCE IT TO THE PERFECT PARTNER. £69,95

Both kits are available from: Addons: Southampton; SDL: London 01-300 3399; GEM: Harlow 0279-412441; HB-Marketing: West Drayton 0395-44433, Amiga Centric: Edinburgh 031-557-4242 or Microbealer: Milton Keynes 0908-74000. For Further information contact The Disc Company: Paris 33-14 55 3 10 53. B 4 53.16, T5758 Paris Cedex 16. FIRST THINGS

Although Music X will run

on an A500, it is ideally

recommended that you

have at least 1 megabyte

reason for this is that as

you have more modules

of the program called into

length left for your music

stretch, the program will

of RAM to go at. The

memory, the storage

is diminished; at full

take up nearly 400K,

which leaves not too

much in the way of

memory. What in fact will

happen is that modules

will be overwritten in the

memory and can't be

called back in. Cleverly,

the program will disable

the Workbench to make

extra room if it is stuck

and there is an option to

It's very rare for one single music package to turn the world of music on its head: but, as **JON BATES** discovers, one has just hit the market that looks set to do exactly that.

# **MUSIC XPLOSION**

A fer several months of build-up and previews when we couldn't get our mitts on a finished version, Amiga Format is able to bring you the first review of the fully-completed UK version of a program that should clean up the competition as far as the musical aspect of the Amiga is concerned. Ladies and Gentlemen, for the risible sum of £199 plus VATI, give you Music X.

Why should you purchase it? Well, usually music software falls into one of several categories. It can be either a sequencer, a voice programmer, a sampler, or some sort of MIDI interpreter. With Music X you have all these in a single package which takes full advantage of the multi-tasking capabilities of the machine. It is the first package specifically designed for the Amiga: the others are programs crossed over from less capable machines.

Lets take a run round the various departments of this program — to be honest, each one is worth a review in itself, but we'll compress a little to get all the details in.

#### SEQUENCER THE FRONT END

This is the main page that the program defaults to. The upper window contains the familiar tape recorder icons of Pause, Record, Play and Stop with Fast Forward and Back. Topping this are Begin – which is in effect jump to zero – and End, which is a very useful feature that locates the last two bars recorded if you wish to add on extra bits or continuations. It is the first time I have seen this

feature, and jolly useful it is too. There are four Cue buttons which can be set at any point within the piece that you fancy. I would have liked to have an ultra-fast wind plus the ability to fast forward while the piece is playing.

Recording is dead easy; hit Begin to start at zero and then record. It gives you a two bar countin, alterable, and away you go. Anything you play is stored in a record buffer and will be only kept if you decide to place it in the sequencer list in the bottom half of the screen. There are 250 tracks for you to put sequences into and so it is highly unlikely that you will run out of space.

One thing the manual doesn't mention is to watch the available memory space counter. If it counts down while you are recording you know the information is going in. I would have liked some sort of indicator to tell me that MIDI data was actually going into the Arniga.

If you are trying several versions of the same part, you can compare the stored version with the version just recorded by hitting Preview which plays back the record buffer. Once the part is fixed in the sequencer list, a full report on its satus is listed. Bar length, memory size, MIDI channel, what time code it is using, name and whether it is playing the internal voices or MIDI external voices are afferency tell or the proportion.

A little bit of explanation about the last sentence. Music X is able to read several external time codes - more of which later - so it is useful to know whether it is using Relative or Absolute time code. (That's also why there are two time clocks, one in bars and beats and the other in minutes seconds and frames for SMPTE video code.) The internal voices are treated as 16 MIDI channels and the Ex1 sign means that it is on normal MIDI. There is provision for more than one circle of MIDI instruments to be added at a latter date. Any sequence can be turned off and on, although not while it is playing.

The tempo is set from the slider and if you want to alter the number of beats per bar this is pretty well catered for by a copious amount of time signatures. Oddly enough, for a program so geared up for video work, when you change the

ge: C3 - D4 NIDI Ka

tempo it does not alter the time or bar elapsed counters. Once the piece starts to get under way, the top right hand window shows the sequences that are playing at any given bar. This is a non-active window.

As well as the screen there are dropdown means and windows that appear when various functions are cicked, in any page or module if the far left menu that gets you from one module or function to the next. All important decisions throw up a safety prompt to avoid the red face of losing your entire work, and there has been some thought to the program in that you can suspend operations to free up the serial port for other applications, and then return to it without having to reboot.

On the sequencer page the output channels can be set, but all input channels are set from the filter page. The sequencer will punch in and out either automatically, from setting the bars, or manually. Oddly enough, you set the bars from a drop-down menu but set the



■ The front-end page, to which the program defaults, is the main sequencer screen. Sheer power at your fingertips.



#### **EASY START**

One of the nice things is that the program can be run as a stand-alone music sequencer without any need for external MIDI devices. Since it can play back four samples simultaneously and swap them around quite quickly. it makes an ideal starting point for anybody who hasn't any MIDI-equipped instruments. After getting used to the program, you can save your pfennigs and add MIDI gear to it bit by bit. The program does not come with an interface for MIDI, but this is not going to set you back too much: obviously any interface will run, and so it is up to you to shop around for the cheapest.

function from a window. Perhaps a complete window for this would have saved time in racing around from screen to screen: it also takes a little while for the program to locate the bar you want to record or play from.

Sequences can be copied, merged. over-recorded or overdubbed, and certain types of events extracted. Remember this is not yet the edit page: this is just the front-end sequencer functions. As mentioned before, it is very competent at synchronization. It will respond to its own internal clock, external MIDI clock, internal Video clock (which runs at the same frequency as SMPTE, has software corrections, and can be used as a near as dammit guide for timings against video), the new MIDI time code which some videos use, and good old SMPTE timing code although for this you will need external SMPTE reader hardware. It will also sync up with drum machines and other sequencers to any given point by using the MIDI song position pointer. By now you should be



■ The Event Editor presents the details of the part as a data stream.

getting the idea that Music X will synchronize to virtually everything and anything including your bedroom alarm clock and microwave.

#### SEQUENCER

THE EDIT

On pressing Edit we move into a different screen. There are two types of editor: a graphic display called, slightly confusingly, a Bar editor; and a typical data stream editor called an Event editor. The Bar editor is so called because everything is shown in bar graph form: the Americans call musical bars 'measures'



■ The Bar Editor offers a simpler but less accurate graphical presentation.

so at least they won't be confused. Notes are represented by oblongs of different colours for different MIDI channels and the vertical bars refer to the velocity and aftertouch. All these are overlaid on a grid and the whole thing scrolls from left to right. To the far left of the window is a vertical piano keyboard by which you are supposed to be able to work out the pitch. Personally I found it pretty superfluous as notes were not highlighted: editing was best done by ear. The graphics can be expanded or contracted in size for macro overview or fine editing The first thing to sort out is the grid .

#### FROM FASY TO ADVANCED

The manual goes a long way to explaining the workings of the Amiga for novices and the operation of MIDL plus a little towards the construction of music, although not in great detail. There is an advanced user's section for assembling songs in different ways and instructions to ensure that the program will boot up with the modules you use all the time ready installed.

KEYS WHERE

YOU WANT

Most of the functions in

any of the departments of

from either the mouse, the

the program can be run

gwerty keyboard or in

some case the keyboard

of your MIDI instrument: keys can be assigned

various functions, so that

you are not constantly

running around from

keyboard to keyboard.

losing both your mouse

simultaneously in the

and your temper

process

from the size of the grid that the quantize values are set up. There is a complete range of musical note values including options for irregular timings such as five and seven beats to the bar, or even to the crotchet for snazzy things like quintuplets which may occur in more extreme solos. This, again, is a fist for Music X.

I size. This is quite important as it is

Ouantization itself is well thought out, if a little away from the normal way of working as set by other programs. It will only quantize on notes once they are in the memory: there is no auto quantize while recording. Having set the grid size to which the strict beat should conform. you can then quantize the notes to within a certain percentage either side of that norm. It can be told how far in front or behind to start quantizing and the percentage amount of exactness can also be specified. Not only will it correct the point at which the note starts, but you can also choose whether or not you want the whole note to be moved, the whole note to be moved and the end point quantized, or simply the start of the note moved.

Quantization can also be applied to velocity and aftertouch, and within this there is a 'scaling' type of module which will allow you to increase or decrease the velocity and/or aftertouch over a specified area. If you leave them but add a random factor, then I found that you could give things like drums and especially hi-hats a great degree of human feel while leaving the main accents evident. On the aftertouch front, by the way, the program will accept and work on both 'channel aftertouch', which affects all the notes played at any one time, or the more sophisticated 'polyphonic aftertouch' which only works on the note so pressed. I found the methods of using these important features very easy to get used to and after a few hours of experimentation I was surprising myself with the results.

Actual editing is done via the pointer with the usual options: add, move, delete, mark, cut and paste. Notes can be lengthened or shortened by dragging on them. The notes sound when you click on them, although I found it was a

pain in the proverbial that this did not happen in delete mode, and so it was all too easy to cut out important notes. There are also limited record facilities in the edit mode, and you can hear a sequence back either on its own, or with the rest of the sequences.

I found, though, that the screen kept scrolling after you hit the stop button — which made life a little difficult when trying to locate a point exactly — and there didn't seem to be any way to manually scroll through the part at your own speed and hear the notes, although you can turn the scroll function off.

reserved for the sequencer playback page, was set as an event command insertable anywhere in a track or sequence. Maybe I missed the point but it is usually something that you use when comparing all the parts together. Its uses within a track are reasonably limited and it might have been easier to have it as a recordable event on the sequencing page. Tempo alterations, program changes, and indeed the whole gamut of MIDI operations are supported and editable in the sequencer. Apart from one or two minor niggles I found this very easy to use.



■ The Roland D-50 is just one of many synths supported by voice protocols.

For some reason my grid and quantize sizes didn't seem to be memorised when I reloaded a song, although every other peripheral throughout the whole program was. The Event editing is the same as the Bar, but in scrolling data-stream format, which is pretty good for fine alterations to various notes. Not every action is duplicated and there are going to be some functions, like marking off areas, which are better done in the graphic Bar' editor. Maybe an abridged data-steam editor window would have been of use, particularly when coupled with the graphic editor.

Transposing sequences is achieved through something called Play Sequences, which is the method of song assembly used. However I could not find a way to perform either part or global transpositions of without having to resort to this slightly odd method or assembling tracks, which I left to be a major omission. I also felt I could have done with a window that would have allowed me to visually assembled allowed me to visually assembled sequences to play consecutively without bein affected by the bar numbers.

One thing I failed to understand was that Solo, which is usually an option

#### SEQUENCER

To set up the recording, there is a filter page which maps out the MIDI information coming in and routes it to wherever you want, extracting information that may or may not be wanted. Information can also be sent to places that other sequencers can't reach! In other words, you can translate messages into other forms: so pitchbend could become modulation, or aftertuch become gritchend.

It will also accept and work on many channels simultaneously and remapachem channels simultaneously and remapachem however you wish. One useful thing on there is the skinding fifter that work you will find that the sensitivity of one instrument is not matched by the sensitivity or programming of a particular voice on another instrument, so pitched of a sentione can become perfect of the sensitivity or programming of a particular voice on another instrument, so pitched of a sentione can become perfect of the sensitivity or programming of the youth perfect of the sensitivity or programming of the youth perfect of the sensitivity or programming of the youth perfect of the sensitivity or programming of the youth perfect of the sensitivity or programming of the youth perfect of the perfect of the youth perfect of the yout

The filter is a quick way of getting round that problem, although it does have a few quirks in that the filter tended to highlight the steps in the pitchbend, and when tested with fast data from vicious pitchbending it tended to jam up.











page can collect MIDI information from 16 different instruments.

There are also controls to set instruments into the various modes and knock off hanging notes and vibrato: something which the main sequencer didn't appear to do when stopped in mid sequence with a hanging note. The eventual destination for the channel can be either internal or external voices.

Accessible from this is the rather clever Keymap Editor which gives you a choice of setting up four Keymaps. These can turn your master keyboard into a multi-timbral controller with different areas of the keyboard assigned to different channels, so that bass in the left hand and piano in the right are easily possible: or you can set any keys you want to trigger off various commands such as program change, muting track, solo track, or starting and stopping the recording process. All very clever. You can even get one note to play a sequence at that pitch so it can become a one finger bass line which in itself can be re-recorded on a separate sequence! Keymaps are stored when data is saved.

#### SAMPLING

The samples page is a list of the samples loaded in to the program at the moment. Music X will accept and store in both IFF and Sonix formats. It gives all the relevant details regarding the sample - highest notes, range, memory size and tuning - and the channel to which it is assigned. More than this, in the lower right-hand corner is an envelope editor for reshaping the sounds of the samples and retuning them.

It is a pretty comprehensive editor with a 16-stage envelope for the sound with variable sustain point. It is also conscious of the amount of memory that samples use and to this end it can throw away the largest octave, which will also be the lowest octave, of sounds if you are not going to use them, and thus free up a little more space for another sample. Altogether a very comprehensive and useful adjunct to the sequencer.

It is this page that will probably get a lot of use if you buy the program without having any MIDI equipment. There is a reasonable variety of samples available with the program but a quick scout about the public domain catalogues and our giveaway disks should turn up some useful samples. Music X will only run four samples simultaneously but these can be swopped judiciously to give a really big sound to a track you're working on.

#### LIBRARIAN

If you are working with external MIDI instruments, one of the things that you might need is a device to store all the instrument data that is contained in them. This means that the set-up for any song you perform can be stored as part of the Music X program and then sent to each instrument in turn, when you return to that song after working on something else. To do this there is a module called a Librarian which at its basic stage will collect and store voice information from the synths in batches of 16 at a time.

Now, although most instruments will perform the systems exclusive voice dump required for this, the codes required to persuade them to this are different for not only each make, but usually each type, of synth or tone module. Music X cornes with protocols - that's the commands to send and receive data - already built in, for the DX7, 100 and 21. Casio CZ1000 and Roland D50.

It does also have the possibility for you to create your own protocol which can be called in to work with your own synth. Here the manual goes into very helpful details on how to set these up and tactfully tells you that no-one has ever got it right first time. It is not the fault of the program, it's just that synth manufacturers are not always straightforward in the manner in which they present this information: it's usually those back pages of the manual littered with details of status bytes and checksums.

Added to this there are three excellent visual editing programs for the DX21/100, TX81Z and D50. These themselves are usually about £50 each so you can work out the value of these programs for yourself. More will be available later, and that in itself is one of the many strengths of Music X. Since the program is modular - it calls sections into the memory as it needs them and, if the RAM capacity is up to scratch, then that is where they stay - these modules can be updated by Microlllusions later and offered to existing Music X owners. Theoretically this means that the pro-



■ Patch data editors will be available for many synths: cheaper than ROM!

gram should not go out of date and any updates should be available at discount prices. I also envisage that a user group would be useful, as information regarding samples, voice protocols and editors would save a lot of time.

Data for the actual sequences created can be saved in three formats: Music X file, standard MIDI file which enables it to be loaded into other compatible sequencers, and the Amiga SMUS file. There is an additional utility program that will do the conversions. Since it stores in MIDI file it can also be loaded into scoring packages such as Dr T's Copyist or ProScore from Comus.

Anart from one or two minor queries and a channel that refused to work on one song initially, Music X passed every test with flying colours. It is the most comprehensive and competent music package for its price that I have seen anywhere. If the price tag had been double, it would still be worth it. Don't waste time, check it out now.



MILEIC Y £199 +VAT ■ All Amigas SDL (UK) Ltd, Sidoup, Kent. Tel: 01 300 3399

#### THINGS TO COME Thanks to Music X's mod-

ular design, even as we speak Microlllusions are working hard on add-on modules (pages if you like) that will further enhance this powerful program. First off the blocks is a range of patch editors which will sell at the unbelievable price of £10 each. Roland D110 and Korg M1 owners will be the first to receive editors for their keyboards with many others

will be a real-time score editor which MicroIllusions hope to finish in time for a January release, Future modules planned include a drum nattern composerieditor and a powerful 'Arrange' page which will allow easy construction of songs. All add-on modules will be

available for £50.

The first major

additional page to arrive

to follow.

- Left: the keymap editor allows set-up for four keyboards.
- Below: there's plenty of power to manipulate patches.

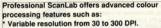




### **COLOUR SCANNING**

for the Amiga 2000!

ASDG's Professional ScanLab colour image input system for the Commodore Amiga 2000 personal workstation, comes complete with all of the hardware (including internal and external cables) and software necessary to control the Sharp Electronics JX300 or JX450 24-bit-per-pixel colour scanners.



\*Colour correction including independent control over red,green and blue.

\* Edge emphasis and smoothing.

\*Colour conversions from 16 million to 4096 or fewer.

\* Read & write images in any Amiga format.

\* Four colour process separations which are among the best yet produced on a personal or micro computer.

\* Scan in 1, 3, 8 or 24 bit modes.

\*Real time scrolling over extremely large images.

Two, four & elight to one reductions.

\*Can be used with Gold Disks ProPage program for full colour DTP with 16.7 million colours output. Using our ReSep utility.

\* Fully compatible with all postscript printers.

ProScanLab Board & Software £900 inc. Sharp A3 Colour Scanner & ProScanLab £7500 inc. Sharp A4 Colour Scanner & ProScanLab £ 3000 inc.

#### Others Make Claims ASDG Delivers. The Dual Serial Board.

Fast, Compatible, Complete!

You know about ASDG's hard-won reputation for ASDG's Dual Serial Board Features quality and reliability in their hardware and software products.

But did you know that it takes more than just a board to provide a complete serial expansion solution. It takes:

\* A completely compatible "serial.device" driver. \* Powerful, but easy to use, DOS handlers to

allow total control over the expansion serial ports, even from the CLI!

A way to use existing programs, written to use "serial.device", on any expansion serial port without modification.

Only ASDG's Dual Serial Board provides all of these important features.

Only £219,95

\*Uses IBM PC-AT standard connectors to reduce exte cabling costs.

\*Reliable operation from 110 to 115,200 baud, including 57.6K baud for maximum speed RS-232C transfers to Postscript compatible printers.

\*Full XON/XOFF and CTS/RTS handshake support. \*Installs in 5 minutes or less.

\*Comes withPublic Domain and Shareware

communications programs to allow immediate board \*Compatible with: Access, AZComm, VT100, DNet,

TSSNet, ATalk III, ProPage, Superbase Pro, Y2's Ruby Term/View and every other program written to use "serial.device" or "SER:".

\*Supports DOS and CLI use with multilevel defaults.

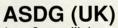
\*Allows use of all serial ports simultaneously.

For further information please contact either of the following!

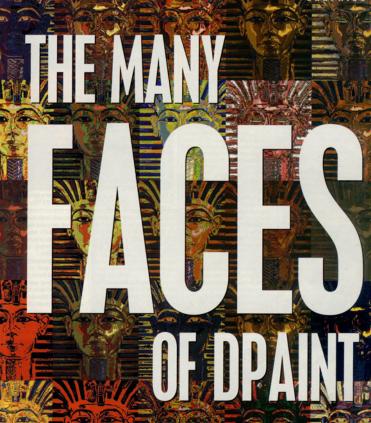
#### **ASDG**Incorporated

925 Stewart Street Madison, WI 53713 Tel:0101 608 273 6585 Fax:0101 608 271 1988





Jersey Supreme Works 538 -546 Whippendell Road Watford, Hert's England, WD1 1QN Tel:0923 818079 Fax:0923 817417



In the first of Amiga Format's professional tutorials/ Graphics

Editor BRIAN LARKMAN brings you the DIY guide to creating your own masterpieces with the Deluxe Paint series, covering the many, changing faces of this remarkable program...

#### MATCHING PALETTES

One great advantage of commer-cially-produced clip-art is that usually all of the clips in each set are produced using the same palette, so there are no problems en mixing them together. If you need to bring in clips from another picture, check first that there are already colours in your palette that are similar to those the clip. It is then just a matter of remapping the brush colours

If there are no suitable colours then the remap will look rather odd. In that case try to regain one or two colours from the palette - using Less Colours in PixMate if you have it - or by nerging two similar shades if ot. This job is made much er using Stencil in DP2 or DP3, and at least a bit simpler in DP1 by making the colour to be scarded very bright and using agnify and fill.



eluxe Paint is probably the single most widely-owned piece of Amiga software after Workbench, having been bundled until recently with all A500s sold. In spite of its major flaw - wasting a fifth of the available screen most Amiga artists have used it at one time or another.

The original Deluxe Paint (DP1) has been upgraded, first to Deluxe Paint II (DP2) and now to Deluxe Paint III (DP3); but apart from abandoning 200-line NTSC for the European 256-line PAL display all the original, basic features remain, though most have been improved. So let's see how to get the best out of these first. Playing with the enhanced tricks of DP2 and DP3 will come later.

#### Cheating

The primary reason for using any computer graphics package is to make it easier to create 'for real' the image in your mind's eye. The quickest way to achieve this is to cheat, by taking a ready-made picture that is close to what you want, and modifying it to suit. Even for an experienced artist this method can save a lot of time: though for a novice it is still important to practice creating from scratch, simply as part of the learning process. We shall examine these basic skills at a later date

Two ways of 'cheating' are available: digitising and clip art.



■ The pieces of clip art, supplied on this month's Coverdisk, all ready for you to start work producing a new Mona Lisa.

The equipment required for digitising, including a video source as well as a digitiser, can be expensive: but it makes the task very easy, as we shall see in a later instalment. For now we must make do with cannibalising other people's artwork!

#### **Changing Faces**

Clip art can be obtained from a broad range of sources. Disks full of complete screens and smaller

brushes are both available from Electronic Arts and Aegis, as well as from most PD libraries. If you are serious about computer art it is worth collecting as many of these as possible.

Even if the whole picture is of no use, one part - an eye or nose, a lick of flame, a hub-cap may be handy at some time. So build up your own collection of directories of bits ready for later use. You may even find that the

#### AGEING: USING SMEAR



Like "Ambivalent", the transition shown in "Ageing" is designed to be viewed as an animation. It is primarily an exercise in the use of Smear techniques, though cut and paste and scaling of features were also used extensively.

As the human body gets older, the elasticity of skin becomes reduced so that our faces generally lose the firm look of youth and become either wrinkled or sagging. Apart from the wrinkles around the eyes, and the enlargement of nose and mouth, the general effect of ageing in this illustration is conveyed by sagging of the facial muscles. This effect is quite simple to produce using Smear. In the first three frames the

features are gradually thickening. This was achieved by expanding the features and the neck. The fourth frame shows the start of sagging. A clip was cut of a section of the jaw line (using Polygonal Brush Selector



in DP3 or by cut and paste and erasing the excess then cutting again using DP1). Once Smear is selected, this

brush can only affect the pixels beneath it, dragging them in the direction the brush moves, and to a lesser extent, those pixels nearby. The effect of sagging is achieved by dragging the brush from its original position, down and out from the jawline. The fifth frame is an extension of this process, applied to the chin and eyelids as well as the jaw. The effect is so horrific I am surprised that the Editor has allowed you to see it. You can tell that most of the Format team is quite young, not yet worried about sagging flesh! Wish I could say the same!

palette used for a picture is useful just on its own, so save small brushes of any colour combination that particularly appeals. named appropriately: 'summer landscape', 'hellfire', 'flesh tones', 'pastels', 'rainbow' etc. This can save a lot of time in the early stages of a picture.

This month the Amiga Format Coverdisk includes some exceptional clip art from the Electronic Arts "Art Parts: Vol 1" disk 'Faces' directory. The basis of this month's tutorial is employing these examples to demonstrate how best to use clip-art, concentrating on two of the main techniques for mixing and modifying clips: scaling and smearing. So if you have DPaint, you can use the program and our Coverdisk to practice the techniques as we run through them.

The range of tools provided by Deluxe Paint for modifying clips or brushes has grown with each subsequent version of the program, but nevertheless the initial set is quite adequate for most purposes, and most of them are used in the accompanying illustrations.

#### Scaling

Only rarely is a particular clip exactly the right size and orientation to fit in your picture. By scaling - changing size and proportion, flipping horizontally or vertically, mirroring or rotating, bending and shearing - the clip you have can be transformed into the one you want. In fact, one of the great joys of computer painting is that any component need only be drawn once and then re-used in many different situations. The same nose can be made fatter or thinner, bigger or smaller, straight or crooked, with just a few clicks. The illustration "Ambivalent" shows how subtle use of clipping and scaling can transform an image.

#### Smearing

Often, a picture can be transformed by the slightest modification; a tiny upturn in the corner of a mouth can give a straight face an enigmatic smile - or a leer! The major tool for this sort of work is Smear. With Smear selected you can push the pixels under the brush in much the same way that oil paint can be smeared with your finger. Smear only uses the colours under the brush, without adding colours: so with careful use major distortions can be produced without changing the basic texture of an object. The transformations in "Ageing" were produced mostly by smearing.

#### "AMBIVALENT": USING SCALING











The transformation of a woman's face into a man's is an exercise in the use of the tools in the Deluxe Paint Brush menu. It is designed to be animated in DP3 in Pingng mode. The male and female faces at either end of the sequence were produced purely using the clip-art supplied in the Faces drawer of the DP3 Art Disk, without any modification. The inbetween images were composed using the same clip-art,

modified to suit.

The idea of transforming one face to another over five frames means that as well as the features, the actual shape of the head needs to change from one frame to the next. In this sequence, the first three heads are all versions of the female head, with the lower jaw cut, stretched vertically progressively in the second and third frames, then re-pasted to align. The fourth frame is the male head with the lower jaw modified using the Brush menu tool Rotate Shear to almost match the third frame. (The left side of the lower jaw, cut down the centre, is Shear-rotated so that the top of the clip is unchanged but the bottom is moved to the right to match the jawline in (3). The process is then repeated on the right side.)

ired bit, then cut and paste. In DP2 & 3

The whole

use Polygonal brush

selector.)

For convenience, the five images were all loaded as animation frames in DP3 so that the spare screen could be used for loading and modifying clips 'on the fly'. Using DP1 the clips of the features - eyes, ears, noses and mouths - need to be modified in advance, as shown in "Ambivalent Bits", then pasted alongside the relevant blank 'head' ready for

It must be admitted that the hair transition as presented here would be quite difficult to align well using DP1 as the clips are too large to include at the sides ready for alignment. They would have to be modified by eye as a final stage. Using DP3 all five frames were resident in memory and alignment was simple. Even in DP2 the use of Background mode on the Effects menu would make alignment and modification

#### AMBIVALENT DP1 PROCEDURE LIST

The sequence of actions for producing the Ambivalent transition accurately using DP1 would be: A. Load Heads clip, cut female head, clear the screen and paste it in to the centre. B. Load Ambivalent-Bits, cut

and paste the (1) bits and save. C. Lengthen the jaw, cut and paste the (2) bits at the sides and save.

D. Lengthen the jaw, cut and paste the (3) bits at the sides and

E. Cut and paste the (4) bits (at the sides), load Heads clip to Spare screen, cut male head

F. Copy main screen to spare then paste brush aligned to the head on the main screen (use the 'head' brush to remove the lower part of the previous head using the right 'erase' button of

G. Modify the jaw using Shear, and paste in position (compar-ing jawline with that on spare screen) (use 'j' key to flip the IS.) SAVE.

H. Load Heads clip to spare screen, cut male head, paste igned with head on main screen Load Bits to spare, cut and paste the (5) bits to the main screen(at sides), SAVE.

J. Load screen (1) and copy to

K. Load screen (2) and paste the bits from the sides to align with

those on (1) using 'j' key to flip. SAVE L. Repeat with (2) and (3), (3) and (4), (4) and (5).

#### AMBIVALENT BITS



■ Each feature of the face changes over five frames, so the process used was to place the start and end clip at top and bottom of the screen and then transform progressively from the first extreme to the last, cutting and pasting whichever bit was closest to what was suitable at that stage.

(1) stretched wider. The final nose (5) was squashed verti-cally to match (1) and highlights added by hand.

3 The final eye clip (5) was used at this stage complete with wrinkles and bags, but the darkest areas and the worst of the wrinkles light-ened using Shade as first eye (1) was red by hand ch (2). The nose is

4 This eye is exactly that from (5) with the darker areas lightened is from (3) but ashed vertically to match (5) more closely. The nose is just a slightly squashed version of (5)

5 The final set of male features taken direct from the Faces drawer.

#### DPAINT TUTORIAL

CONTINUED



#### COSMETIC SURGERY

Almost invariably, clip-art is best assembled starting from the back and working forward. Two heads are provided in the Faces drawer, male and female, loaded together as a low-res picture. One of these is nicked up as a brush, the screen cleared, and the brush pasted centre-screen. Eyes and noses are loaded as another picture, on the spare screen. To assemble one image this process - picture on main screen, clip-art pictures loaded to spare - works perfectly well. If several images are going to be worked on and aligned for animation, a bit of juggling is required, especially in DP1.



n building a face, working from the back. The head is an obvious first step, but the hair will need to be behind the ears so it can go on now too.



■ Placing the important features



■ Our complete masterpiece.

ne of the first developers to realise the potential of the Amiga's 4096-colour HAM mode were Newtek, with their Digiview digitiser and Diginaint HAM painting system. Digipaint in particular was a revelation, because it was the first commercial paint program for a cheap micro that allowed really realistic painting: smooth gradations of colour, transparencv. even lighting effects could be painted in what seemed a really easy, free way. Then along came Photon Paint, with its easy interface and texture mapping, and Digipaint seemed to disappear, A combination of poor marketing in Britain and preoccupation with their Video Toaster (will it ever appear in Europe?) has resulted in Newtek losing the HAM painting initiative. Digipaint 3 is clearly intended to regain a place at the top, but it may be too late!

Old Dog, New Tricks Digipaint 3 is similar to the original in many respects (version 2 never made it to Europe) but the interface and many of the tools are completely redesigned. changes are definitely an improvement, providing a slick interface and many interesting and innovative tools. Nevertheless, some of the new 'tricks' are included at the expense of the old ones. For instance, there is now no airbrush - astonishing in itself on a package of this sophistication - yet the old airbrush in combination with shading produces the best cloud effects of any paint program on the market. Similarly files can no longer be saved with comments: Digipaint 1 was virtually the only Amiga program that included this excellent facility.

Featuring... Enough of criticism: what CAN the system do? A detailed description of the more exciting new features must wait till next month, when the DIY tutorial will be a comparison of Digipaint 3 and Photon Paint 2 how they compare in the features stakes and how-to-do-it in either program - a working review!

## **DIGIPAINT 3**

First impressions of the latest version of Newtek's popular HAM painting system: expect a full review next month...

Meanwhile, perhaps a list of the I most striking features will give you an idea of what Digipaint 3 is capable of.

#### The tools include:

- A form of 3D texture mapping onto any shape you can draw, with anti-aliasing for smooth results (but not true 3D surface mapping).
- Transparency control operating
- on all other tools and features. ■ Cut and paste with any of the



■ A photographic image digitised and reworked in Digipaint.

drawing tools, including picking up the result of an irregularly-shaped

- special effect. ■ Easy to understand modes:
- colourize, lighten, darken, texture map, blur, 'rub-through' etc. ■ Real-time auto-scrolling on Super Bitmaps up to 1024 by 1024 (contact with any edge initi-
- ates the scroll in a smooth, controllable way). ■ Eight times magnification with

- realtime scrolling (but rather clumsy operation and no zoom). ■ Text rendering using any of the
- effects and modes ■ Patterned or random dithering calculated at 30 bits per pixel.

#### Other features include:

- 68020 support.
- 3D painting with X-Specs 3D (if you can get any!)
- ARexx compatible for software control of all features.
- Loads any size and displays overscan and severe overscan.
- Manual with limited guided tour and tutorials (no index).

The features that are missing are rather surprising:

- No fill of any kind (except filled
- shape tools). ■ No airbruch
- No 'free' rotation ■ No stencil

#### First Impressions

Overall, the program seems rather better in use than this initial reaction review might imply. Most of the tools that are missing are usually fairly easy to simulate using other techniques, though no fill may be a bit limiting at times, and free rotation is almost essential. Some people will find the lack of an airbrush a problem. The special effects are very good and compare well with those in Photon Paint, though maybe not with Photon Paint 2 which definitely has more features. Nevertheless, you can have lots of fun with this program. More next month...





nstrate Digipaint's use of Transparency and Texture Mapping to varied effect. ■ These images de

#### More **High Quality Software Tools** from HiSoft...

#### **HiSoft BASIC**

The BASIC language has come a long way since its humble beginnings in the early 1960s and the AmigaBASIC interpreter supplied with your computer is witness to this transformation. However, although AmigaBASIC is good, you can do even better ... with HiSoft BASIC.

HiSoft BASIC is a complete, fully up-to-date, integrated BASIC development system with the massive advantage of having a compiler built in so that you can transform your programs to super-fast machine code as easily as running an AmigaBASIC program.

- . Fully AmigaBASIC compatible so that you can use all the programs you have already written and all the publicly available ones ... immediately.
  - . Modern, structured programming features like: long IFs, multi-line functions, sub-programs, REPEAT, WHILE, DO, CASE etc.

- · No limits: no program size limit and no limits on the size of any variable (except by memory).
  - Full recursion in both sub-programs and functions with local and global variables, arrays as parameters etc.
    - Integrated editor with English error messages. . Link your BASIC code with C and assembler for
  - total flexibility, speed and power. . Compatible with Microsoft QuickBASIC 3 on the PC.

HiSoft BASIC comes with a professional 350-page ringbound manual which contains a full tutorial and, for a limited time, we are supplying the Abacus book AmigaBASIC Inside & Out plus its examples disk (a total value of at least £25), absolutely free of charge!.

#### Price

HISoft BASIC Amiga £79,95 inc.

#### Lattice C ver 5

We are delighted to be handling the best range of C programming tools currently available on the Amiga.

Lattice C 5 and Lattice C++ are now widely regarded as the ultimate C compilers - no others give you faster, more efficient programs ... and no other product gives you a more complete programming environment or a more impressive set of features:

- · Fully standard Amiga Compiler, with many ANSI features, including ANSI preprocessor, const and volatile keywords and function prototypes.
- Powerful source level debugger to speed up debugging, without slowing you down, with access to all of your variables and full control over your program's execution.
- Support for all 68000 series processors including the 68030 and 68882.
- · High performance global optimiser using state of the art techniques not previously seen on the Amiga. including moving calculations out of

loops, automatic assignment of variables to registers, elimination of unused code and variables.

- Full set of programmer utilities to increase the flexibility of your development environment.
- Blink overlay linker, the standard Amiga linker.
  - · Pre-compiled header files give increased speed by eliminating repetetive analysis.
  - . Many built in functions to allow generation of inline code increasing the speed of your programs yet further.
  - · Fully re-entrant and multi-tasking compiler. plus facilities to build resident modules.
- · Comprehensive two volume manual with many examples and sample files.

#### Requires

- . Lattice C 5 runs on the A500 up but will certainly benefit from 1Meg of RAM and, for large programs, a hard disk.
- . Lttice C++ needs 1.5Mb memory and a hard disk.

Lattice C 5.02 £229 inc., Lattice C++ £299 inc.

#### HiSoft Devpac ver 2

We've said enough in this ad, let's hear what the press have to say about Devpac Amiga:

Editing, assembling, debugging and even program execution from the same place - not fantasy but something offered by Devpac. Fast assembly speed, powerful directives for optimising code, extensive conditional options, symbolic debugging ... Devpac has it all plus a lot more, It's program developers ST/Amiga ST

With release 2 of Devpac Amiga, HiSoft has greatly enhanced its already excellent 68000 development system, making it quite indispensable for the serious programmer.

Transactor 5/89

Price: Devpac Amiga 2 £59.95 inc.



The Old School • Greenfield Bedford • MK45 5DE Fax (0525) 713716 • Tel (0525) 718181

Access & Visa Orders welcome

### DIGITAL DELIGHTS

### A great new real-time video digitiser provides JASON HOLBORN with hours of fun.

he Aniga certainly isn't short of its fair share of wideo digitisers. In fact, one of the first hardware addons to arrive for the machine was a wideo digitiser, in the shape of the now leggendary. Digit-View from Newtek. So what's so special about another digitiser?

From a specification point of view, Vidi doesn't offer anything that hasn't been done before. What is astounding about Vidi is the price; just under £100 for a real-time digitiser is quite simply an astonishing breakthrough.

The digitiser unit plugs directly into the parallel port of an ASOO. Linfortunately, using it on either an A2000 or an A1000 requires the additional purchase of either an extension cable for the A2000 on a gender changer for the A1000. The box features a phono socket for the video signal input and two knobs. to control the brightness and contrast. Unlike most other units, Vidi also includes a lead to connect your computer up to an appropriate video source.

#### Frames

A digitiser is only as good as its supporting software, and so the quality and ease of use of the bundled software is all-important. Surprisingly, the bulk of the Vidi software was written in .HSoft BASIC, but don't be put off: it's a powerful piece of code and a fine example of the quality of HSOft's product.

product:
The software allows you to continuously grab and display frames at a maximum rate of furnity frames at a maximum rate of furnity frames as second. During frame grabbing, Vidi stores the most recent sequence of frames in memory, which can later be easily ficked through using either the onscreen controls or an impressive "Select Frame" option which displays all frames at once by

employing a cameo representation of each frame.

If you have extra memory, Vidical fullse this to store as many frames as memory permits. This is achieved by storing frames in Fast memory and then using the Solot to rapidly copy them into Chip memory ready for display by the custom chips. As an example of memory usage, a 1 meg Amiga can store 22 frames with east.

Window On The World
One particularly unique feature of
Vidi is the ability to define a rectan-

which can be called from just about any programming language to allow you to control the digitiser hardware from within your own programs. Using it, you could even rewrite the Vidi software if you really wanted to!

#### Vidi Verdict

Its price and grab speed are very much Vidi's ace card against Digi-View, its most obvious rival. Anyone who has used Digi-View will know that although it can undoubtedly produce some astounding results, the time taken

of undoubtedly produce some an astounding results, the time taken

■ Using the ability to define a window in a grabbed frame and ther grab a new image into it, a mouse and the Kick Off trophy are inset.

gular window which you can either grab into or around. All you have to do is to mark out a rectangle, specify whether you wish to grab in or outside the rectangle, and then hit the 'Grab' option and the digitiser will start grabbing to this predefined area, while leaving the rest intact.

Frames in memory can be animated by using the 'Animate' and 'Carousel' options, which flick rapidly through frames to produce animation.

#### Programmed Pixels For the ambitious among you, Vidi

by also includes a disk-based library

to grab even a single, mono frame is horrendously slow: up to 10 seconds, to be precise. Compare this to Vidi's 50th of a second.

this to Vidis 50th of a second:

Most users don't have access
to luxury items such as video cameras and so digitating directly from
a video recorder will probably be
Vidis main use. The basic Vidi unit
has been specifically designed
with these users in mind, therefore
allowing the best possible results
from even the simplest of digitsing setups. Although the basic Vidi
unit will only grab in mono, the
qualify of the dithering techniques
used gives the impression of a
much larger colour scale. Where

which can be called from just quality is concerned, Vidi produces about any programming language some of the best results five seen to allow you to control the digitiser on any digitiser, at any price.

Bringing Vidi up to a comes rable, specification to DigiVisiv raises the price to about the same level as Newtek's unit, but the combination of real-time grabbing and superior results makes Vidi the choice for the pixel field on a tight budget. For the price, there is currently nothing to Touch Vidi Amiga.

#### Vidi Upgrades

Vid Amiga is available in several configurations. The basic unit, which retails for £99.95, is a 360 by 200, 15c0olur real-time grabber, probably best suited to users producing graphics for display on both NTSC and PPL Amigas, Surprisingly, because Vidi locks onto its input signal, the unit can be used to grab from both PAL and NTSC video sources. A PAL version costs an extra £15. This is the same as the basic unit but-allows 320 by 256 pixel resolution frames to be grabbed.

A top-of-the-range Vidi allowsyou to capture images in fullcolour (including HAM) for only anextra £20. Like Digs/New, colour,
vidi uses red, green and blue filters and therefore requires a sepsrate video camera to use. Bit, bit,
full. It doesn't allow true real-time
grabbing of colour composite
images because three separate
mono frames have to be grabbed
and then combined to produce the
final colour image.

If you buy the most basic Vidi unit, Rombo will upgrade it to either of the above specifications for only the difference in price (£15 for PAL, £20 for colour). ■

VIDI AMIGA

1099.95 M All Amigas

10 Productions

10 Productions

The 'animate' option allows a simple animation to be constructed from grabbed frames in memory













# ATHENE COMPUTERS 0705 511439







AMIGA A500 + GAMES PACK £389 inc



#### **AMIGA HARDWARE**

A500 + TV Mod	£330	in
A500 + Games Pack	£349	in
A500 + 1084(S) High		
Res Colour Monitor	£578	in
A500 + A501 RAM	£488	in
A500 + 8833 Philips Color	ur	
Monitor	£548	in

#### 

AF 880 3.5 Drive	£89	inc
FR302C 3.5 Drive	£85	inc
Cumana CAX 354E	299	inc
A1010 3.5 Drive	£115	inc
MD C30 3.5 Drive	£85	inc
NEC 3.5" Drive	£85	inc

#### AMIGA ACCESSORIES

A501-512K Ram	£129 inc
Mouse Mat	£4.95 inc
Amiga Dust Cover	£4.95 inc
TV Modulator	£21.95 inc
Steel Monitor Standard	
Amiga 520ST	£15.95 inc
Steel Double Monitor	
Stand Amiga ST	£25.95 inc

#### COMMODORE C64

CO4 HOlly WOOD F ack	10
C64 Home Entertainment	
Pack£199 ir	10
1541 C11 5.25 C64 drive£145 in	ıc

#### A500/A2000 MONITORS

Philips CM8833 High Res £229 inc 1084(s) Stereo High Res £239 inc

SEE US AT
THE COMPUTER
SHOPPER SHOW NEXT
TO COMMODORE
(STAND C3 & C5)
ALSO AT NOVOTEL

#### **A2000 HARDWARE**

A2000 + IBML099 + VAI
A2000 + 1084(S) Monitor£1598 inc
+ bridge BD + 20Mb Hard disk
A2000 + 1084(S)£1199 inc
For DTP/CAD Configurations
All systems Formatted
Amiga 2000 A 2058 8Mb Mem
Expansion card fitted with 2 Mb Ram
A2084/A/2092 - Autoboot Amiga 20Mb
Hard drive Internal (Amgia)
Video Card - Flicker Fixer Phone
14 inch High Res Colour Monitor FST
A2000, A2620, A2090, A/2092
Video card 21" FST HRCM Phone
A2000, A2620, A2090/A/2058
Video card 14" HRCM Phone
For further colection places abone

#### **A2000 ACCESSORIES**

20Mb Hard disk...

Amiga or Mados	
XT Bridge Board	+ PRE3
AT Bridge Board	£675 + VAT
INT Genlock	£179 + VAT
8Mb Ram/B with	
2Mb Ram	£649 + VAT
2nd Drive 3.5	£75 + VAT
DRIV	ES
CPPS A590 20Mb	£395 inc
Hard Disk	
Vortey A500 Hard dist	£499 + VAT

CPPS A590 20Mb	£395 inc
Hard Disk	
Vortex A500 Hard disk .	£499 + VAT
A590 20Mb + 2Mb Ram	1
Hard Disk	Call for Price
Cumana CSA 354	£99 inc
Cumana CDA 358	£199 + VAT
Cumana IMB 5.25	£115 + VAT
External 2nd drives	from £85 inc

### COMMODORE PC40 AT's Incude V.G.A. Adaptor, 1Mb Ram

1.2 Mb Drive
PC40 111 Single Drive

#### COMMODORE DESK TOP PCS

All XT's at 3 speeds 4, 77, 8, 10 Mz supplied with AT-E 102 keyboards & Dos

PC10 111 Single Drive
mono monitor£485 + VAT
Single drive C.G.A.
colour monitor£599 + VAT
Single drive E.G.A
colour monitor£799 + VAT
PC 10 111 Dual drive mono monitor
Dual drive C.G.A. monitor £659 + VAT
Dual drive E.G.A. monitor £789 + VAT
PC20 111 20Mb Hard disk
mono monitor689 + VAT
20Mb Hard disk
C.G.A. Monitor£839 + VAT
20Mb Hard disk
E.G.A. monitor£949 + VAT

#### LASER PRINTERS

ı	Citizen Overture	£1299 in
,	HP Laserjet 2	£2099 in
	Star Lazer 1Mb mem	£1695 in
	Enson CP3500	CAL

#### STAR PRINTERS

Star LC10 Mono£148.95	inc
Star LC10 Colour£194.95	inc
Star LC24-10£310	inc
Star LC10 CBM 64£179	inc
Star LC 10 Colour CBM 64£199	inc
Star ND15 Wide Carriage £343	inc
Star NR10£357	inc
Star NR15-Wide Carriage£412.55	inc
Star NB24-10£453.87	inc
Star NB24-15	
wide Carriage£550.27	inc
Newstar FR YR in stock	

#### COMPUTER

3.5 Bulk Sony/JVC		
50 Disksonly	€44	in
3.5" Branded Sony		
10 Disks only	£14	inc

Call for Qty discounts. Most Brands Supplied. Storage Boxes, Mouse Mats, Cleaning Kits etc.

> Amiga PD Lib over 500 titles £2.50 per disc

#### Delivery Charges

Next day £10 inc 4 day £5 inc Computer Supplies Free by Post



#### PHONE 0705 511439 24hr delivery Athene Computers

Dept. AF The Media Centre 16 Stoke Rd. Gosport Hants. PO12 1JB





# WIN WITH POWERPLAY

Powerplay have been making joysticks for themselves and other people for many years. Their long

experience has produced the very succesful Cruiser stick and now the new Crystal. To mark the launch of the new stick they are not only giving away 20 of them, but have offered a magnificent first prize of a Panasonic TV and video

The Crystal is a robust, microswitched stick with twin microswitch fire buttons, suckers on the base and an autofire on the Turbo version. lt's an excellent addition to Powerplay's previous stick, the Cruiser, which is not only stylish but has an adjustable sensitivity control.

The first prize is a 14" Panasonic TV (TC1480) and video (NVL 20) worth over £500. 10 runners-up will receive a red Crystal Turbo joystick and a further 10 nners will get a standard red Crystal.

1. How many pins/holes are there on the standard joystick socket/plug?

b) 7 c) 5

2. How many microswitches are there in a Crystal joystick? b) 32 c) 6

3. Apart from plugged into a computer, where else might you find a joystick?

a) In an aeroplane
b) In an Indian temple

c) On the dodgems at a fun fair

#### RULES

Employees of Future Publishing and Powerplay are not allowed to enter. The judges' decision is final. No correspondence will be entered into.

#### HOW TO ENTER

Write the answers on the back of a postcard or stuck-down envelope and send it to: POWERPLAY COMPETITION, Amiga Format, 4 Queen Street, Bath BAI 1EJ, The entries should reach us by October 16th and don't forget to include your name, address and phone number on the postcard.

OVER \$800 OF TV, VIDEO AND CRYSTAL JOYSTICKS UP FOR GRABS FROM POWERPLAY





#### STUNNING GRAPHICS **NERVE TINGLING SOUND EFFECTS**

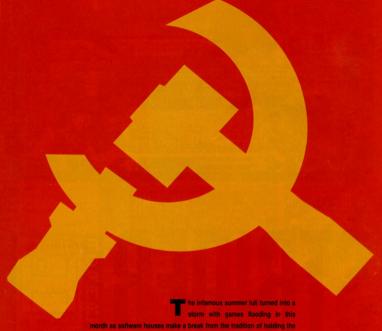
For the AMIGA, ATARI ST, PC and Compatibles and soon also for ARCHIMEDES.

SOFTWARE SUCCESS MARKETING Alban House, 24A White Pit Lene, Flackwell Heath, Nr High Wycombe, Bucks HP10 9HR



DRAGONWARE PRODUCTS – MERIMPEX Ltd Am Schrägen Weg 2, 9490 Veduz, Finl.; 75 28388, Fax: ...76 206 56

# SCHEENPLAY



storm with games flooding in this month as software houses make a break from the tradition of holding the 'big' games back for 'surprise' launches at the PC Show. Of the games that have arrived, there's a small army of coin-op conversions ready to march into the shops. One of the hottest is the US Gold version of the Capcom hit, *Strider* - check out the review. But it arcade action's all a bit

too mindless, fast or hard for you then you'll find there are plenty of other goodies on the next thirteen pages to make your mouth water.

STRIDER GLASNOST OBLITERATED





US GOLD £19.99 Joystick

# STRIDER FAMIGA

ussia and the Russian army are going to look very different seventy years from now; or so Capcom and US Gold would have us believe, with this conversion of the highly successful coin-op.

cessful coin-op.
It's the eternal struggle of
Good viersus Evil again, as you
take on the persona of Strider
Hiryu (Hurrah!) to do battle with
The Lord (Boo! Hisst) and his
wicked minions in various parts
of deepest, darkest (and sometimes coldest) Mother Russia.

After being dropped off in ing out any ground red Square, you must guide ing installations Strider across platforms get in your way.

destroying KGB agents with your trusty sword (which moves so fast it's just a blur) before they fire at you. As well as moving left-to-right, you also have the ability to jump straight up, leap left-right (doing a rather gymnastic somersault in midair), crouch and slide (which looks a lot like an American baseball player sliding for a base). Using these moves you have to jump chasms and leap from platform to platform, destroying the guards and taking out any ground-based or flying installations that happen to



■ Now you can stay out of the firing line to let the drone do the work

end-of-level Midand guardians make an appearance. and discovering how to polish them off will pose you a couple of problems. You could try to make life easier by picking up a couple of extra weapons: such as a drone, carried onto the screen by an airborne alien who releases it if you destroy him. This drone then circles round you and fires boomerang-like shots that can be used to take out hard-to-reach haddies

The drone will also run along a platform occasionally, clearing a path for you. Other extra weapons include an extended sword, which gives you a limited number of huge, far-reaching swines.

Make it to the end of the stage and defeat the end-of-level porky big 'ard monster, and you're transported to the icy wastes of Siberia for the next round where you'll have to fight off blood-thirsty dogs and the occasional mechanical gorilla. In the second and third rounds (for the third round, you're in a jungle in the southern lowlands. which are infested with boomerang-lobbing nasties) the action is pretty much the same: leap around the platforms, select the correct routes to take and destroy the end-of-level guardian.

Should you manage all this without losing all three lives (for each life you can take three hits, but any hit causes the removal of any extra weapons previously collected), and complete each stage of every level within the time limit (well, you didn't think things were going to be easy, did you?) it's back to Moscow to face the Grand Master of the Red Army.

#### GRAPHICS AND SOUND

One of the main attractions of a coin-op is its graphics, and, obviously, home users want graphics as close to the original as possible. Thankfully, Stringer comes very close. Not only does it retain the impressive coin-op background graphics and sprites, but the smooth and fast animation remains too.

Sound is also good: the standard coin-op jingles are fine and effects throughout are satisfying, although the digitised speech is not the best ever heard.

#### JUDGEMENT

This is good stuff. Capcom did the biz with the original and USG have done the biz with the conversion, producing an enjoyable,



■ The athletic Strider pulls off an excellent back-flip to get to the pod. But will it provide a drone or an extra-long sword?



This time it's a sword, which is bound to be jolly handy for dealing with those hard-to-kill end-of-level guardians.



■ Stage Three is set in the snowy wastes of Siberia, and the mid



■ These robots should learn never to turn their backs on a mean sword-wielding dude like you! Things are looking bad for them.

playable, addictive and exciting game. Arcade fans who like their games spiced with plenty of action and rushing around are certainly going to enjoy this. It's no great mental exercise, but the immense playability is guaranteed to bring a smile to the face of every arcade action fan. Red Andy Smith



#### RATINGS EXPLAINED

#### GRAPHICS

Good graphics are an important part of any game: if the power is there, it should be used to the full. Both still and moving graphics come under scrutiny in this rating, but remember, graphics alone do not a game make...

#### SOUND

With stereo capabilities the last thing you want to hear are Spectrumesque beeps, right? Title tunes and effects all add atmosphere to a game and good sound can greatly increase your enjoyment.

#### INTELLECT

How much real thought do you have to put in to play the game? Just because a game's mindless doesn't mean it's bad, but a game with a high Intellect rating says immediately you'll need to think to gain maximum enjoyment.

#### ADDICTION

How easy is a game to pick up and play? How much sheer fun will you get from it? Will you keep coming back? Important questions, answered by the Addiction rating.

OVERALL
A percentage mark that takes into account all the ratings, plus added extras like price,

# packaging, documentation... THE TEAM

Andy Smith, left, who was with ACE right from Issue One, is a 'twelve-hours-a-day' games fan and one of life's natural gamesplayers. He loves any type of game, be it a shoot-em-up, strategy game, arcade adventure... Bob Wade, right, started reviewing with Personal Computer Games and has worked for Zzapfe4, Amstrad Action and ACE. There's no-one in the business with a better idea of what makes a game.



# SHARE THE AMERICAN GAMES SUMMER INON' "MI'S a winner— net that certainly word to net that certainly word to net that for follog," TON || DREAM

#### THE GAMES SUMMER

EDITIONIN "It's a winner a game that certainly won't be left on the shelf for long." To

#### CALIFORNIA GAMES™

MILLIAM

"Each event would make game in its own right, but when you get all six gether, you'd have to be ad to miss it." STACTION





## MPOSSIBLE

h better e play."

## THE GAMES WINTER



GAMES SOFTWARE QUALITY BEYOND YOUR WILDEST DREAMS



All games available on ATARI ST, AMIGA & IBM PC THE GAMES WINTER EDITION £19.99 THE GAMES SUMMER EDITION £24.99

CALIFORNIA GAMES £24.99

IMPOSSIBLE MISSION II £24.99

# IACK NICKLAUS' GOLF



rst hole of Jack's est 18 is introduced by the



■ The overhead view shows a blem: a lake lying between tee and the green.



The drive is succesfully played d sits nicely on the fairway.



At the new ball position it's 4 wood to be employed.



e shot was straight, but t: however, a pitching e will get you on the gr

ADDICTION **OVERALL 78%**  A golfing legend, winner of more major championships than anyone else, much demanded course designer and all-American hero: the Golden Bear. A golf game can't come with a much better endorsement than Jack, but does it live up to his reputation?

Three courses are available: Castle Pines in Colorado, Desert Mountain in Arizona and Jack's Greatest 18. The Greatest 18 are culled from some of the most famous courses in the world, such as St Andrews, Augusta, Pebble Beach and Royal Lytham.

One to four players can take part, any or all of whom can be computer controlled. There's a choice of several opponents of varying ability, including Jack himself, who is of course incredibly good. There is also a choice of game type: 'stroke play' or 'skins.' In skins the players play for prize money on each hole, the prizes increasing as they go along. Stroke play is the usual score-perstroke, with the overall score plus or minus par kind of system.

Before playing each hole you are given an overhead view of it, which can be called up again while playing. You also get Jack's words of wisdom on the hole. Then it's off to the tee, where the view is from behind the player, looking towards the green and the pin.

The club is selected from a driver, two woods, eight irons, two wedges and a putter. Once the club is chosen and the shot aimed. the tricky part of swinging the club has to be done. This is a matter of timing mouse clicks to initiate the swing, to stop the power bar going upwards and then to stop it going down (for the accuracy). Mistiming clicks will result on the upswing in shots going long or short and on the downswing in the ball hooking or slicing.

The computer players do everything automatically: and slowly too. A lot can be learnt from watching them, particularly if you have a similar shot to play. There are various factors affecting a shot - windspeed and direction. sand, slopes and rough. On the putting surface there are only breaks to cope with, but the aiming of putts is very tricky.

If you are not happy with your performance you can always go off to the driving range and the practice green, or even practice on a few individual holes.

#### GRAPHICS AND SOUND

The courses are picturesque, with trees, bunkers and lakes making up some lovely views. The only problem is the terribly slow speed at which the graphics are drawn. The view is redrawn for every shot so there is a lot of hanging about waiting for it.

The sound is limited but what is there is good: some excellent sampled speech at the beginning and realistic hitting and bouncing noises during play.

#### JUDGEMENT

The slow speed of play is annoying but not terminally so: just chill out, relax and take your time playing. The three courses are challenging and dangerous and the opponents provide good competition. It's a game you will be playing for years to come: as long as the old back injury doesn't flare up again... Bob Wade



erous tee shot awaits because of the overhanging trees on the right. Why not aim left and slice the ball back towa



A good chip from the edge of a well-protected green gives you a chance to hole that putt for another par.

SYSTEM 3 £19.95 ■ Joystick

# DOMINATOR

It's comforting to know that some things will never change: the Queen's speech on Christmas Day, Amstrad returning record profits for some quarter or other and Earth being attacked by hordes of nasty, slimy aliens.

No-one's yet produced a game based on the first two, so this must be a game based on the latter. The aliens in question are a touch nastier and slimier than the average two-headed, green-skinned jobs though, because they would actually like to eat Earth and its inhabitants! What's needed is somene to jump into a spacecraft

and fly right into the mouth of the boss alien, to blast away at its vital organs. Fancy the job?

In case you hadn't guessed, it's a multi-stage, horizontally and vertically scrolling shoot-en-up (scrolling shoot-en-up (scrolling shoot-en-up (scrolling shoot-en-up (scrolling shoot-en-up) (scroll

As you'd expect, there are

extra weapons to collect including rear guns and a time-based auto-fire facility, plus extra lives and smart bombs. The weapons are collected by flying over weapon icons that appear periodically. Fortunately, any extra weapons you do collect are carried from stage to stage, but if you lose one of four lives, you

#### GRAPHICS AND SOUND

lose the weapons.

The backgrounds are well drawn and menacing, but the sprites are dull and uninspired. The collision detection is ever so slightly off, and on more than one occasion you'll be

shouting "That was nowhere near mel" As for sound: well, it's just as bad. The title music is fine but the effects are mediocre and surprisingly slow. Destroy a wave of aliens then stop firing, and for a moment you will still hear shooting. Dominator will not be remembered for graphics and sound.

#### JUDGEMENT

Some would argue whether there's room for yet another shoot-em-up in the marketplace anyway, and others would argue that there's always room for a game that offers a good blast, especially if it has new features.

What there isn't room for is a game with no new features, that doesn't offer a good blast and has limited lasting interest. Dominator certainly qualifies on the last three. Andy Smith

GRAPHICS 4 SOUND 2 INTELLECT 1 ADDICTION 3

**OVERALL 28%** 



Sneaking through the first stage while trying to avoid being grabbed by those large 'arms' that shoot out from the sides.



Make it to the end of the stage and there's the end-of-leve guardian to be destroyed before you can progress any further.

LINEL £19.95 ■ Joystick

# **SKATE OF THE ART**

Twenty stages of viewed-side-on skateboarding action. Controls are limited: scoot (for speed), lean back, lean forward and flip are the ones you'll use most as you move left-right across the screen at great speed, jumping obstacles and shooting up and down ramps. Though there are twenty of them, the levels are all short and it's simply a question of remembering which moves come in which order and hitting the fire button at just the right moment to get through them. Should you misjudge a jump. however, you go sprawling across the road and have to restart the level with one of your initial five lives gone. Make it through the stage and you are rewarded with a "flip" bonus, decided by how many jumps you did, plus a time bonus, decided by how quickly you finished.



Flipping in the Underground.

Skate of the Art, so far from being state of the art, is basic stuff indeed. Although it looks all right, it is simple in design and quite frustrating in gameplay. Even hardened "boarders out there will find their interest evaporating quickly with this one. Andy Smith

GRAPHICS 6 / SOUND 5 / INTELLECT 2 / ADDICTION 3 / OVERALL 38%



HARDWARE & SOFTWARE **SPECIALISTS** NEW! SHOWROOM 13 LANSDOWNE RD BOURNEMOUTH

DORSET



EXC. VAT 7 (0202) 24927/813176 £5 - DELIVERY

£315

#### AMIGA A500

#### + FREE £220 SOFTWARE

- INCLUDING: PURPLE SATURN HOSTAGES
- · INTERNATIONAL SOCCER · WINTER OLYMPIAD SPITTING IMAGE • STARGOOSE • BACKLASH
- · QUADRALIEN · ELIMINATOR · 20 P/D GAMES
- FANTASTICK F3 JOYSTICK TV MODULATOR
- AMIGA A500/

84(S) MONITOR £416

AMIGA B2000/ 1084(S) MONITOR £1049

INC ACCESSORIES

#### 1500

- **INCLUDING**
- MOUSE WORKBENCH UTILITIES • MANUALS
- · BASIC · TUTORIAL
- TV MODULATOR

£289

#### MIGA B2000/ LIPS 8833

INCLUDING:

- MOUSE WORKBENCH
- · BASIC · UTILITIES · MANUALS
- XT BRIDGE BOARD 20Mb HARD DISK

£1299

## INCLUDING: MOUSE · WORKBENCH

£49

Ring

· BASIC · UTILITIES · MANUALS

£799

#### LC10 1 COLOUR LC24-10 16913V £249

#### AMIGA EXTERNAL DRIVES

- Cumana Cax 354E 279 £78 BE302C £74 Supra 20mb H/disk €499
- \* All drives 1mb + on/off switch \* AMIGA ACCESSORIES

#### A501-512k RAM. £109 TV Modulator. £22 Mouse Mat €4.39 26.89

SPECIAL OFFER

A2000 HARDWARE	
A2000 + 1mb RAM A2000 + 1084(s) monitor	£869
+ bridge BD + 20mb H/disk	
A2000 + 1084(s) 20mb hard disk	
XT bridge BD	£299
A500/A2000	
MONITORS	

084(s) High res monit	£209
Philips CM8833 High res	£199
901 C64-colour	
900 C64-Mono	2119
DOINTEDO	

ı	Star LC10 (P) 130CDS	£139
ı	Star LC10 colour	£189
ı	Star LC24-10 (24 din)	£269
۱	Citizen 120D	£105
١	Commodore MPS 1230	£119
ı	Panasonic KXP1124 (24 pin)	£279
١	Panasonic KXP1081	£149
ı	Epson LX800	£158
١	Epson LQ500	£250
ı	Epson FX850	£409
ı	Epson FX1050	£382
ı	Epson EX800	£369
ı	Epson EX1000	£419

Photon Paint

Photon Video.

#### **COLOUR PRINTERS** Citizen HQP40... €352

Epson EX1000	€543
Hewlett Packard Paint Jet	
NEC P6+	£569
NEC P7+	
Star LC10	£195
Kerox 4020	2949

#### LASERS Citizen overture £1199 HP Laserjet II .. £1825

## **BUSINESS S'WARE**

	Sale 9
AEGIS Sonix	
Animated Images 3D	192
City Desk	269
Deluxe Video	€49
Deluxe Music	£49
Deluxe Paint	£49
Digiview Gold	299
Home Accounts	£19
Mailshot Plus	£39
Maxiplan A500	£69
Music Studio	£23
Organiser II	€49
Page Setter	283

Professional Page	£175
Pro Writer 2	Ring
Publisher Plus	
Sculpt 3-D Animate	£102
Sculpt 3-D	£63
Superbase II	
Superbase Personal	£44
Superbase Professional	£169
TV Show/Text	£79
Word Perfect 42	£169
'Works'	£69
Zumafonts	£25

₹0000 £137.00



Hugely successful 9 pin printer, the Star LC10 provides 4 NLQ fonts (with 86 print combinations) at 38cps and 144cps draft. Has a large 4K buffer and IBM/parallel interface built in. Includes a comprehensive front panel operation and features paper parking, allowing single sheets to be used without

#### ALL PRICES EXCLUDE VAT

CREDIT CARD MAIL ORDER AND EXPORT HOTLINE

> (0202) 24927 (0202) 813176

OPEN MON-SAT 9am-5.30pm All prices and manufacturer's specifications subject to change without notice.

To: First Micro, 13 Lansdowne Rd, Bournemouth, Dorset BH1 1RZ I wish to order My computer is

I enclose cheque/PO for £ inc VAT Or charge my Access/Visa No.

Name Signature Address

Postcode Tel No:

DIGITAL INTEGRATION £24.95 ■ Keyboard and Mouse or Joystick

# F-16 COMBAT PILOT





loose with one of those AMRAAM missiles, then get out of there quickly...

If you didn't want to be a fireman when you grew up, chances are you wanted to be a jet fighter pilot. And for all but a very few of us, a combat flight sim is the closest we'll come to realising our ambitions.

Dis offering, based on the popular General Dynamics' F-16C, has Mirrorsoft's excellent Falcon – based on the same plane – to contend with, so the new game will have to be good to compete.

For a start, there are four basic games: training (always a good place to start), separate missions (five in all), a campaign game and a dogfight option.

Training allows you to experiment with the plane, practice landings and even gain familiarity with the weapons. Once confident, try the separate missions which you need to complete in order to be able to take part in the campaign game. These missions include a

OCEAN £24.99 ■ Joystick

# ROBOCOP

In like most film tie-ins, the computer versions of Robocop were developed at the same time as the Data East coincip, so Ocean had a choice: to either make a game purely based on the film (something like Platoni) or to make a straight-forward conversion of the coincip. In the end, the game has wound up closer to the arcade machine rather than as a pure, original interpretation of the film.

The game is set in the Detroit of the future, where the police department is being run by a corrupt private company called OCP.



The company has big plans to robotise the police network, but a small setback with the prototype machine (ED 209) means they have to re-think their plans, eventually coming up with the idea of a half-human half-notes-bayer.

All they need is a volunteer body donor. A young cop called Murphy just happens to fit the bil after being bady shot up in a vicious attack. OCP robotises Murphy and puts him on the streets without completely earlier, and he soon goes rogue and sets about hunting down the gaing who naided him.

It's a multistage strolling shootemup, with the player controlling Murphy as he wanders about his business of upholding the law. Baddies appear at first floor windows and on the street and the general idea is to either shoot them or clock 'em on the awwith a thainim-packed punich.

They shoot back, every hit they score reducing your energy until it runs out: game over time. Fortunately there are extra fire-power symbols and extra energy that can be collected by smashing

scramble scenario, in which the idea is get airborne ASAP and down some aggressive enemy MiGs, and an air-to-ground one in which you have to tackle an enemy tank battalion. Other scenarios include reconnaissance, runway bombing and bombing missions deep in enemy territory.

Complete every mission and you're allowed to join one of eight squadrons fighting a campaign game, in which the plan is to defend the country against an invading enemy force. You decide the missions and where to hit the enemy in order to hurt him most, and to help in the fight you can send up to four other aircraft on separate missions against other targets. Wipe out the enemy force and you'll be promoted to another squadron where things begin to get somewhat tougher.

The only way to get to the campaign game, though, is to complete each mission and save the results to disk (creating a



■ Check the mission and select your weapons accordingly...

pilot's log). If you've had enough of the solo stuff, connect up a couple of machines with a modern cable and take on a human opponent in a gripping dogfight that will really keep you biting those fingernails.



■ Even with electronic ground control assistance, landing's no picnic.



■ Taxiing onto the runway ready to take off for a night mission

#### GRAPHICS AND SOUND

Everything is viewed from within the cockpit - never from a position outside the cockpit, so you don't see an external view of the plane in fast, colourful 3D with options to let you see what's happening behind and to either side. Though the instrument panel is laid out in a standard fashion you are able to switch the position of some of the instruments to suit, which is handy. Sound is great, and though most of it's limited to the drone of the engines, it is well done.

#### JUDGEMENT

There's plenty of action to suit the combat-hungry and the attention to detail will please and delight the flight purists. Once you get into the campaign game or take on a human you'll find yourself playing for hours at a stretch and coming back to it time and time again. As DI keep proving, when it comes to simulations - especially ones involving aircraft. - they're very hard to beat. Andy Smith

GRAPHICS SOUND INTELLECT ADDICTION **OVERALL 94%** 



through marked crates. Collect the symbol and your gun suddenly has things like three-way firing or super-big shots. Sadly, the extra weapons only last for a set number of shots: use them sparingly.

Reach the end of each stage and there's an end-of-level guardian to be destroyed before progressing to a bonus stage where you can practice your shooting or have a bash at putting a photofit together. For each level the object remains, effectively, the same, to work your way through the stage and destroy the end guardian. All that really changes is the setting: in the junkyard, inside the drugs factory and so on.

#### **GRAPHICS AND SOUND**

The title and in-game tunes are all right but not brilliant, and the same can be said for the spot effects and the occasional burst of digitised speech. The back

ground graphics and sprites are good and the whole thing is smoothly animated. Just about the standards expected from a coinop inspired game.

#### JUDGEMENT

It's a nicely put together platform shoot-em-up which fans of the film will be well pleased with. As a game in its own right it stands up, but it's not terrific and you'll complete it sooner rather than later.

From then on, the only real reason to keep playing lies in constant attempts at improving your score.

Andy 'Half-Human' Smith

GRAPHICS 8 SOUND INTELLECT 2 ADDICTION **OVERALL 73%** 



OCP's first attempt at a robot cop (ED 209) is the first end-of-level

# A POWERFUL PACK OF FOU



They called International Karate 'the greatest Karate beam 'em up yet' (Commodore User). ut ARCHER MACLEAN has come up with a stunner: A third fighter. An amazing animated background. New moves (including double head-kick and a spectacular backflip). Re-mixed music by ROB HUBBARD, And balls!

> ATARI ST AMIGA DISK

Start in the Batcave and move on through the world of fun and ricklest customer of all... the Penguin. Save some strength for the battles ahead with the

VOYAGER
In 1977 Yoyager It was
In 1977 Yoyage

Ocean Software Limited · 6 Central Str Manchester · M2 5NS Telephone: 061 832 6633 Telex: 669977 OCEANS G - Fax: 061 834

e-to-four player moneyng game based on the life of an or company ere time is money.

erst thing to n company to about how to million dollars start of the at Pay your Poll very big ones' in fact, they ermission to out the eight available one Fortunately cot

ess.

ing one

RELINE £24.99 ■ Mouse and Joystick

from c-d. Complete it, and the dosh starts rolling in, allowing you to think about setting up new rigs and more storage tanks. Then it's a case of increasing your profits and becoming rich

This is all well and good when things are going smoothly, but accidents happen and occasionally dents happen and occasionally you'll be informed that inther your storage tanks have bown up or some offsell for file. For the latter case you are not a fire-fight rers — then the guarantee they'll put it out it or vity another arcade ub-game askets you are a round naming explosives to seal the burning hells. And if you want to get mass your can be abstracts to ome evil de aimed at your



■ Hurray! It's a gusher! All you need to do now is sell the stuff.

competitors or hire investigators protect yourself.

#### **GRAPHICS AND SOUND**

Sound effects are limited but are e infrequent, but jolly, her The graphics are fine, every-link is yet drawn and the anima-on the sub-games is satisfac-ty. It's not a visually or aurally nning game, but then it's not

ned to be. JUDGEMENT

time. There are several some to play – different victors conditions but even so it soon become ing and after a course of soon sions you'll find the gameplay very repetitive. Nicely done and highly enjoyable in the short term, but lacks the detail to keep your interest up. Andy Smith



■ Keep the red dot in the centre to avoid smashing the drill head. GAINSTAR £24.95 ■ Joystick or Keyboard

Eek! Guess what? Aliens have invaded and only you can save the In the guise of Captain Cosmose, you must work your way through this horizontally-scrolling platform cum shoot-em-up blasting away at their shots. Moving around is mostly left-right with short and long

jumps to enable you to hop between platforms or across gaps. your energy bar, which can be topped up by grabbing potions.

Not a bad game, it looks and to work through four levels: but it's simple and adds nothing new to this genre of game. Andy Smith



■ Run along the platforms, shoot the aliens, collect the energy ns: you know perfectly well what the drill is by now...

GRAPHICS 5 / SOUND 5 / INTELLECT 2 / ADDICTION 6 / OVERALL 52%

# THE AMAZING AMIGA



Pack Includes:

A500 CPU, Mouse, P.S.U., T.V. Modulator, Very First Tutorial, Workbench 1-3, Basic, Extras and Manuals

#### PLUS POSTRONIX BONUS PACK WORTH OVER £250 which includes 10 Blank

Disks, Disk Storage Box, 10 Excellent Games, Mouse Mat. Mouse Bracket (Mouse Holder) Deluxe Paint.

£399.00 + £5.00 post and packing

#### AMIGA 500 PLUS DISK DRIVE

Instruction Manuals, Extra Disk, Workbench 1-3, The Very First Tutorial, T.V. Modulator, Photon Paint, Mouse PLUS additional Amiga Compatible Disk Drive and 10 Blank Disks.

£449.00 + £5.00 post and packing.

AMIGA 500 + 1084S COLOUR MOI

(including the

(including the Amiga 500 deal) £649. + £10.00 post and packing



#### **MPS 1200P**

+ £5.00 post and packing

The Commodore MPS1200P printer presents the state of the art in dox matrix printers, with all the features of a printer that would cost much more. The MPS1200P is designed to be like three printers in one. It can act just like an Epson FX printer, or with the flip of a switch, it can act just like an IBM Graphics Printer with IBM Group II-I character set (Danish/Norwegian character set) support. It can also print all the characters available with the Amiga in the Amiga configuration. The MPS1200P is capable of all the printing functions you would expect, as well as some additional features you may not expect.

#### MPS 1500C COLOUR PRINTER

A. TECHNICAL CHARACTERISTICS PRINTING TECHNIQUE ... .Impact dot matrix (9-needle print head).

- matrix: 9 vertical dots x (5 + 4) horizontal dots; - print speed: 120 char/s, at 10/char in DRAFT MODE TABULATION SPEED 2 chan/s PRINTING DIRECTION

.bi-directional, with optimised head movement PRINT PITHES

10 char/in to 24/char/in programmable from line, and in SET-UP mode LINE FEED - 1/6in (4.23 mm), 1/8 (3.17 mm) and 7/72 in (2.4 mm); -n/216 in and n/72 in. CHARACTER SET ASCII characters and special characters.

MAX. PRINT LINE LENGTH . ... 40 top 192 characters, according to print pitch selected. + £5.00 post and packing



Compatible with PC, Amiga, C64c, C128

+ £5.00 post and packing



#### Amiga 3.5" external drive.

PLUS FREE DISK STORAGE BOX & 10 BLANK DISKS

£5.00 post and packing

**A501 RAM** 

+ £5.00 post and packing

512K for the Amiga

# D MORE BESIDI



#### THIS TOPICAL GAMES COMPENDIUM OFFERS A TRUE SPORTING CHALLENGE

STOKETING CHARLEMORE
Pack contains: 'Osfe Computer 1530
Datasette, Quickshot Joystick, Matchpoint
(Tennis), Snooker, World Champiouship
Boxing, Duley Thompson Superiest,
Hypersports, Baskerball, Matchday II,
Duley Thompsons Decarthlon, Basker
Master, Track and Field.

PLUS POSTRONIX BONUS PACK OF £100 OF FREE SOFTWARE

£149.99 + £5.00 post and racking



1541 II Disk Drive, 10 Excellent Disk Games, 20 Blank Disks, 514" Diskette Storage Box. AND GEOS!

£169.99

ICONTROLLER

lcontroller leaves hands on the

keyboard while executing Icon

commands with your fingertips.

£15.99

er is semi permanently



A) 1750 RAM EXPANSION MODULE FOR CBM 128 n port on your CBM 128 and 512K Bytes of

B) 1351 COMMODORE MOUSE

C) 1764 RAM EXPANSION MODULE FOR COMMODORE 64

A£149.99 B£19.99 C£99.99



#### AN EXCELLENT PACK PROVIDING HOURS OF ENTERTAINMENT FOR ALL THE FAMILY

Pack includes Clék Computer 1530 Data Cassette, Quickshot II Joystick Personal Hi-Fi, Commodore Juke Box Audio Tape (10 Hits), Yamaha SPS10FM Digital Keyboard with Midi, Ghostbuster, Rollaround, Tau Cei, Agent XII, Supprise Game.

Plus: POSTRONIX BONUS PACK OF £100 OF FREE SOFTWARE

ONLY £199,99 + £5.00 post and packing

A GREAT DOUBLE THEME PACK OFFERING THE BEST OF HOLLYWOOD,

PLUS A COMPENDIUM OF T.V. GAME SHOWS

Pack includes: C64c 1530 Data Cassette, Quickshot II Joystick, The Great Escape, Mami Vice, Platson, Rambo, Top Gun, Every Second Counts, Blockbusters, Bullseye, Trivial Pursuit, Krypton Factor.

Plus: POSTRONIX BONUS PACK OF £100 OF FREE SOFTWARE

ONLY £149.99



SEIKOSHA PRINTER makes of Commodore

computers. Features variety of fonts including

SLIK STIK JOYSTICK

graphics and near letter quality, reverse printing, italics, graphics and near letter quanty, reverse printing, statics, tractor feed and paper seperator. Comes complete with serial £159.00



#### STARFIGHTER Compatible with Sinclair

trum, Commodore, Atari Computers. Atari 2600 Video Games Systems

£14.95 CHALLENGER DELUXE

Compatible with Spectrum (with onal interface). Commodore.

tari 2600 Video System. Atari

Computers. Amstrad computers



#### CHEETAH 125+ Compatible with Spec Commodore. Atari 2600 Video System: Atari Amstrad PC

Amstrad.

£8.95 TAC 5

CONTROLLER

Compatible with Atari

JOYSTICK

Commodore. £13.99



#### CONTROLLER Compatible with Atari Computers Atari Games System, Commodore,

COMPETITION PRO 5000 Compatible with Commodore 64 and Vic 20. Sinclair ZX Spectrum (interface

£14.95



#### TAC 2 CONTROLLER JOYSTICK

Compatible with Commodore 64 and Vic 20. Atari Computers. Atari Game Systems £10.99

----



MICROSWITCH JOYSTICK Compatible with Atari computers and Video Games Machines, Amstrad PCW

(with adaptor).



Compatible with Commodore. Comm C16/+4 (adaptor required). £24.95



whole new range of innovative C64 OLD STYLE £6.99

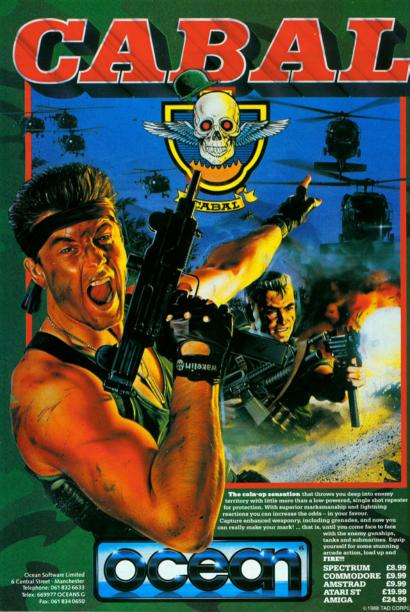
mputer covers, made from C64C NEW STYLE £7.99 rable clear plastic. Designed to AMIGA 500 £9.99 your computer perfectly ... not safe from dust but also all ATARI 520ST ms of accidental damage.

£9.99 ATARI 1040ST

£9,99

AMT OCTOBER IF YOU REQUIRE A FREE CATALOGUE PLEASE TICK [ EAR HOL

DESTOCKS OF SOFTWARE & ACCESSORIES FOR ALL 16 BIT, 8 BIT COMPUTERS - ALSO L MUOR GAME CONSOLES - PHONE (8684) 791771 NOW WITH YOUR REQUIREMENTS.



of up Roll up, Lefyeld another game set inside the By. Tool Our eponymous hero "Feedish 1989" may be illner; in the ring, but he's of leanned impocina, and one the faster bully-boy from the bank want the \$10,000 they lent him back and they want it back by tonight. There's crify one thing poor Freedy can do make the more; by taking perfit in su drous events, the earn dollars rather than points when he is sudjed at the end of the event.

Event Number One is High diving. Climb to the first board, the lowest, jump off and go into a tuck until a prompt tells you what stunt



II Knife throwing: pop the balloons before the timer runs out and try not to stick too many in the spinning girl...

to perform (stiting in the Lotus openion, standing like King I that as onl on the way down. Then you may be stored to the correct position to perform the sturit, before returning to the tack and wagging the joystein in an attempt to stay on target to enter the pool. For each height oboard you perform successfully, not only do you climb to the next board, but the pool also becomes smaller: right down to cup size.

Event Two: unicycle juggling. Ridelethright and catch and juggle the objects thrown by your seal assistant. Occasionally a rival clown will lob bombs and rockets at you which have to be caught and lobbed off-screen before they

# FIENDISH FREDDY'S BIG TOP OF FUN

MINDSCAPE £29.99 ■ Joystick

explode. This clown character is a nasty piece of work because he does his best to disrupt you during every event, so beware!

Event Three: trapeze. Swing from trapeze to trapeze by timing your release. There are paper hoops and flaming hoops to jump

through as well, so timing is allimportant.

Event Four: Knife throwing. Fling daggers at balloons pinned to a revolving wheel; which just happens to have a girl tied to it! Pop the balloons and miss the girl and you get a fresh set of knives.



This fine figure of a lunatic prepares to high dive into a sponge.



have a soft landing.

a new set of balloons and a

Caust Even High wire. Balance your way from one of of the rope to the other one of the rope to the other one of the rope to the other one of the rope of the rope of the other one of the rope of the other one of the other other one of the other oth

#### GRAPHICS AND SOUND

Sound first: the joby crous-like tunes will really start to get on your nerves Jater a while, which is a shame because the effects that are there are good, there's just too few of them. The graphics are great, the animation is Towels, the characters have a humorous cartoon quality and the overall look of the gamile is impressive.

#### JUDGEMENT

What's not so impressive is the gameplay. Each event is simple to play and the tedious amount of disk, swapping three disks total make up the gamel gets on your nerves sooner rather than later. FP's BTOF ends up being another obbied together collection of sightly better than average games which look loads, better than they seen all the various screens you'll seen all the various screens you'll time of a quackly, Andy Smith



■ Unicycle juggling: catch the bombs and rockets before they land and explode.



#### VIRGIN MASTERTRONIC £19.99 ■ Joystick or Keyboard

000000

vly nasties make dive edes and other creepy cra attempts as you make your steady way through Stage One.

he SoonDay Spirit newspaper has a good deal to answer for: not only are its endless 'Mutant Martians Turned My Son Roger Into A Hatstand' stories of a, shall we say, dubious nature, but now it's managed to upset the rest of the Universe with a particularly insidious example of the dubious art of hack journalism.

So, what do you when you're an alien with a grudge? You invade Earth and attempt to destroy it, naturally. Which is just what the rest of the sentient universe has

They hadn't figured on you being a pilot in the crack Gemini Wing space fighter squad. Thus the scenario is set for

this vertically-scrolling shoot-em-up involving one or two players. Duck, dive, bob and weave your way through stage after stage of invading aliens, dealing death to anything that happens to get in the way of your forward-firing lasers. Quite apart from the flying nasties, there are ground-based worm-like aliens that join in the hail of fire, so get in quick to destroy them

pick up the occasional extra piece of fire-power called a Gunball, to collect them, after which they a particularly tight spot, hold down the fire button and a Gunball is it hits as the discs fly away from your ship: then there's the awesome Windscreen Wiper of Death (a lovely, lovely name) which shoots out from both sides of your ship and destroys any aliens that get in its way as it cuts a swathe up the screen.

At the end of each stage there is an end-of-level guardian to dispose of before starting out on the next, more difficult, level. Just like its coin-op parent, Gemini Wing offers the player the chance to continue the game when all lives are used up, although only three restarts are allowed.

#### **GRAPHICS AND SOUND**

Colourful sprites that are smoothly

To make life a little easier you can which some aliens drop when they're destroyed. Fly over these trail behind your craft until used. In activated, functioning rather like a smart bomb. The effects, however, vary: for example, you have the Spiralling Circle of Death which explodes and takes out any aliens

grounds conspire to make the game look good. Sound is good too, with arcade jingles throughout and occasional spot effects.

#### JUDGEMENT

another vertically-scrolling shoot-em-up. All the bits are there - extra weapons, guardians and so on - but there's little that's at all new (the trailing Gunballs are nice but not revolutionary). It's about as difficult as you'd expect from a conversion (with the classic unreasonably difficult Stage Three) but the simultaneous two-player option increases the fun for a while Andy "Flash Gordon" Smith

**OVERALL 68%** 























#### SUPERB FREE 'T' SHIRT

ENCLOSED IN EVERY GAME

ORIGINAL UNIQUE ROGER DEAN DESIGN

### THE BEAST IS AMONG US

This is it - A whole new dimension in computer games 50 frames per second arcade quality scroll 350 screens - 132 unique monsters

13 levels of parallax scrolling 900K of emotive music 2Mb of graphics compressed in two disks.

A TRULY MASSIVE GAME FOR THE AMIGA 500, 1000 & 2000

PSYGNOSIS - GAMES PEOPLE PLAY

Screen Shots from the Amiga version

AMIGA £34.95/ATARI ST COMING SOON



MIRRORSOFT £24.99 ■ Joystick

# XENON 2





S Catch the bubble to sale some each and that 'T' for a smoot bomb

There's only one thing wrong with gaining a reputation (dubious or otherwise), and that's having to live up to it.

The Bitmap Brothers certainly have a reputation to live up to: a very good one, after the high standards they set with their ealier releases Xenon and Speedball. These darlings of the press (have

you ever noticed how it's almost impossible to flick through a computer may without seeing them in pop star pose at some bash or other? have decided that gamers want a good of blast, and reckin they can deliver the goods with Xenon 2. Megablast.

'Megablast' is actually the name of your ship in this five



■ The first end-of-level guardian



In the extra weapons shop

stage vertically-scrolling shoot-entow where it's just you against the Xeniles. You remember the Xeniles, don't you? Well they remember you, from the original Xening game, and they haven't torguen you either: which is why they've planted five time bombs ilthoughout history that need destroying. And yup, you're just the person for the job.

Your journey through the game follows the path of evolution with the aliens for each stage reflecting the period: from simple creatures dating back to prehistoric times up to and including metallic nasties from future space. As you would expect, almost everything is aggressive so it's best to blast everything that moves and anything that doesn't. too. Initially you're armed with a front-firing gun, but extra weapons can be collected by shooting and collecting power-up symbols that occasionally appear on screen. By far the best method though is to collect the small bubbles that appear on screen after certain

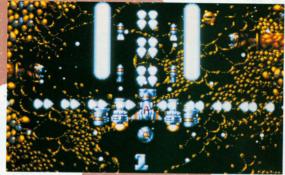
alens or waves of aliens have been destroyed. Why? Because these bubbles are actually money that can be spent in the weapons shops that lie halfway through and at the end of each level.

There's an impressive array of weapons available, from things like side shot and rear-firing cannon to missile launchers and lasers. And, as you might expect, the more destructive the weapon, the more, it costs: so keep going after those cash bubbles!

And those extra weapons are going to come in very handy once you come across the end- (and,



Side shots are needed here!



Buy Nashwan power and you get 10 seconds of total destructive power. Shame it's only 10 seconds!

later in the game, mid-too) of-level guardians. But beware: you may find you've just splashed out on a porky rear cannon to find the next level crawling with aliens that cling; to the sides of the scenery, so life can seem a little unfair at times.

There are a couple of things going for you, though. Every time you lose a life you restart with all the extra weapons you'd collected and there are a couple of 'continue game' options too. And to make a nice change, the scenery doesn't kill you no matter how often you bash into it.

#### GRAPHICS AND SOUND

Well, with the intro and in-game music written by Bomb The Bass, it should be, and is, good. The effects are fine too, though not as impressive. As you must have

GRAPHICS 9 SOUND 9 INTELLECT 3 ADDICTION 9



Approaching a meeting with the second end-of-level guardian.

seen from the demo of the game on this month's Coverdisk, the graphics are terrific. Not only are they well-drawn and colourful, but everything in the game moves quickly and surprisingly smoothly. A winner in the graphics and sound departments.

#### JUDGEMENT

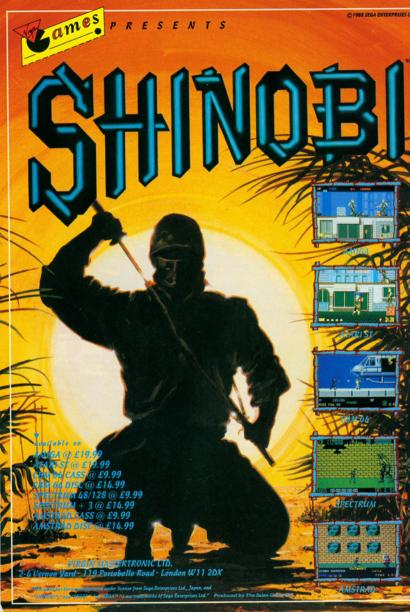
The age-old problem: it's just another shoot-em-up, some would say, and there are plenty of them around already. So what makes this stand out? The gameplay. Its fast, furious, addictive, Jough, playable and it sounds and looks fantasic. Xenor 2 has everything a shootemup needs, and more besides, making it arguably the best of its type to appear to date and a definite "must purchase" for anyone who doesn't mind wasting the odd hour or two enjoying some mindless blasting. A word of advice though, make sure your joy-stick has very rapid auto fire; life can be hell otherwise. And Smith.



Destroy this chap and the pod on top spews out masses of aliens.



Another guardian, this time with a very dangerous extending claw



# WATERLOO



To wargarning fans, the name Dr Peter Turcan may, as yet, be unfamiliar. But ST and PC fans have experienced Peter's earlier work Borodino, a wargame based on the conflict between Napoleon and the Russian Prince Kutusov. Now Amiga owners have the chance to re-fight one of Napoleon's most famous battles in this one or two player simulation.

Most wargames give the player an unrealistic view of the battlefield: failing in the attempt to recreate history because they manable allow the player to see things that the historic commanders were unable to. Waterioo, however, is the closest a wargame has come to sticking a player in the commander's boots.

You view the game through the eyes of either Napoleon or Wellington, and issue orders to your subordinates – who in turn issue orders to their subordinates – based on what you see from your position on the battlefield and messages received from runners. To familiarise yourself with the game system and the battlefield you can view the action through the eyes of other commanders on the field, or from major landmarks.

The orders you're able to issue vary in complexity from vague commands like: Lobau, give support to Reille' (leaving the computer to decide how! Lobau can best give his support to Reille') to things like: "Lobau, form a defence line from the east flank to Lirichermont linking with D'Erlon".

Once you've decided which orders to issue (eight per furn, each turn representing lifteen minutes of real time, the battle lasting from 11.30 am until 9.30 ph), the orders are sent by messenger to their destination. Obviously, the further away this is, the longer its going to take for the orders to get through (if they do at all, because inders are just as profile to getting themselves killed as anyone else) so things can become very continuing; just as the battles were.



View: It looks like the sandpit, with a light infantry regiment of Alten's division in line formation. The range is about 1/2 mile south.

■ Looking south from Wellington's headquarters. Time to issue some orders.

#### **GRAPHICS AND SOUND**

Forget sound, it's not important. The 3D display however is great. It takes a short while for the screen to update, but that's survivable. A short animated sequence of the cannons firing, which is optional, is a nice touch, but for the majority of the time you're looking at blocks representing the units.

#### JUDGEMENT

If you're looking for a wargame that's fast, simple and easy to play then look elsewhere: but if you're looking for a wargame that provides real challenge, will keep you playing for hours on end and which takes time to play well, then this is for you. The game system is easy to get to grips with but it's not for your casual browser.

Andy Smith





■ Of course, by the time the orders get there it may be far too late...



■ The stick-men graphics may not be brilliant, but they do the job.

HEWSON £24.99 ■ Joystick and Spacebar

n a series of catacombs, deep below ground, Astaroth, the Angel of Death, rules over a fetid underworld domain. Surrounded by the vile minions she has summoned up to protect her, she is free to satisfy her evil will.

No-one has dared to face this she-devil. Until now. A single, lone man, Ozymandias, has decided to enter Astaroth's forbidding lair to defeat the demoness.

The catacombs are represented by a series of interconnecting flick-screens, which are entered via left and right, top and bottom. Ozymandias walks and can jump, but has no immediate defences save for ducking from flying bats and harpies which inhabit the carved tunnels. Only forward planning and quick reactions can save him from the variety of beasts which inhabit this world: contact with Astaroth's underlings serves only to rid Ozymandias of his mind powers, shown by a shrivelling brain icon. As each brain disappears completely, so a life is lost. Five lives later, Astaroth has won.

As Ozzy makes his way through the labyrinth, he can collect up to nine mind powers which are stored in bell iars in different locations within the catacombs. The powers confer upon Ozymandias different abilities, such as levitation (to float up to higher floors); pyrokinetics (creates fireballs); night vision (enables him to see in those rooms which are in darkness); and so on. Specific mind powers are needed to defeat Astaroth's three Guardians - the Sphinx, the threeheaded Hydra and Marilith Demon - and only once all nine have been collected can Ozzy attempt to face the Angel of Death in combat.

GRAPHICS SOUND INTELLECT ADDICTION **OVERALL 41%** 



m (Above) Contact with the green bell jar, above, provides Ozymandias with the power of levitation: the results of which are shown in the picture (Right).

#### **GRAPHICS AND SOUND**

Pete Lyon's morose graphics are undoubtedly very good, even though they have been unashamedly ripped off from HR Giger's Necronomicon designs. Ignoring artistic plagiarism, however, it must be said that the phallic and vaginal symbolism is far from tastefully done - especially since it plays no part in the game

and has obviously been included in an effort to increase sales through sensationalism. The accompanying soundtrack is pleasant enough, but is too up-beat to serve as an atmospheric accompaniment to the task at hand.

#### JUDGEMENT

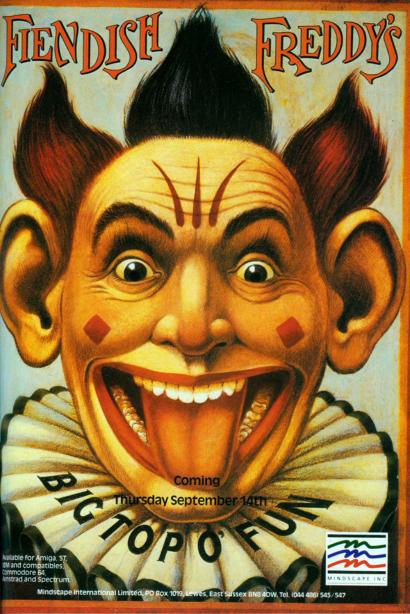
The Amiga isn't being pushed very hard, technically: since Astaroth lacks any scrolling, the sprites are pretty small and the animation minimal. However, while the CPU sits there twiddling its electronic digits, the game still manages to provide poor collision detection and poor, slug-like movement for the main character. Not impressive.

This lack of speed makes avoiding the many obstacles initially tricky and ultimately infuriating, while the simple search 'n' collect gameplay is only marginally spiced up by the addition of progressive mind powers. Astaroth is a jaded old game concept tarted up with graphics of a sensationalist nature to add some muchneeded interest. Bit of a sheep in wolf's clothing, really.

Steve Jarratt

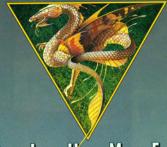






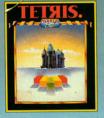
# THE BEST OF THE BEST





M E













ST Action "This game is n at your peril."

iff you p-Page 8

"Menace is a superb game which is impressively presented. Menace excels in terms of playability. It is a highly addictive game with enough variety for you to keep wanting to come back for more."

Sinclair User - 10
"The most original and playable game in an age." Atari ST User - 9
"Tetris is one of those horribly addictive game that gets you saying 'Just one more game'."

Tran 194%

"One of the all-time computer classics . . . it's perfectly simple and simply perfect."

C + VG
"If you're after an addictive and action packed exploration game, buy Basi."

Atari ST User - Star Game
"What a brilliant game - surely Psygnosis' best to date? The graphics have to be seen to be believed and the scrolling is excellent.

ST Action
"A brilliant mixture of fine artwork, taxing strategy and all out arcade action, this game will really put you on the edge of your seat."





**PSYGNOSIS LIMITED** Century Buildings, 051-709 5755

Have we got a hot one for you this month! JASON HOLBORN takes you through the contents of this month's amazing Amiga Format Coverdisk.

# XENON 2

PROGRAM: BY IMAGEWORKS FILES: XENONII, XENONII.DOC



The aliens with the attitude problem are back... and this time they're bringing their little alien buddies along to wreak havoc throughout the universe. Yep, those Xenites were mighty annoyed when you kicked their butts in the first instalment of the Xenon saga, and this time around they're out for one thing... your head on a stake (or pork if a nice piece of steak can't be found).

Those devilish Xenites have been planning your downfall for over a thousand years after their humiliating defeat at the hands of your predecessors. Now the very fabric of time is in danger from their fiendish plans. Those das-

Blasting away with the laser cannon you bought in the shop as you continue the level. tardly chappies have planted five time bombs through history. Unless these time bombs are defused, the explosion will cause life, the universe and everything to

end in an instant, therefore causing '42' to become an irrelevant number.

#### **Getting Going** Joystick in Port 2? Check, Brain

switched on? Check. Reactions in overdrive? Check. ■ That missile All systems are launcher is a go... Now is the handy extra weapon when you meet the time to load our exclusive Amiga caterpillar-like

Format demo by alien waves. inserting the Coverdisk into the internal drive at the 'Insert Workbench' prompt. Good luck, Time Pilot: you're



going to need it!

■ The shopkeeper, speaking a strange alien tongue, offers a range of goodies for purchase.



#### **XENON 2**

Try your hand at the game every 16-bit computer owner has been talking about. After the immensely popular Xenon and the highly acclaimed Speedball, the Bitmap Brothers come up tops with another game to redefine the leading edge in arcade action.

#### ACCESS

Ok, we admit it. We've been neglecting you communications buffs lately and so to make amends, we have a powerful communications program for your perusal that features more bells and whistles than a fairground organ.

#### **WORKBENCH HACKS**

Enough of this seriousness. these disk pages are getting far too serious... and they're not even faintly suspect. Amiga Format presents another dose of the very best in silly software.

#### POPDIR

Question: when is an empty disk a full disk? Answer: when you try viewing a disk from Workbench that contains files that don't have icons, With PopDIR, you can discover those hidden files that other Workbench utilities cannot reach.

#### **AMIGA FORMAT DEMO**



Thanks to those nice chaps at 17 Bit software, Amiga Format has its own demo, produced especially for us to share with you on our Coverdisk. Load it up and pump up the volume!

#### DPAINT TUTORIAL



You've read the article, you've played with the paint package, now try your hand at facial architecture with our selection of clip art files.

#### **ALWAYS MAKE** A COPY OF YOUR DISK!

**DISK NOT WORKING?** Then see page 62-63, fast!

AMIGA FORMAT 59



ust be insane! But it's true: we want to give you money! All you have to do is write a and, if we decide to use it on the

you could be living it up in style! SEE PAGE 63 FOR DETAILS.

PROGRAM: PUBLIC DOMAIN FILES: POPDIR, POPDIR.DOC

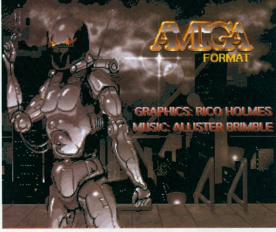
When the WIMP-based computer was first devised, it seemed to be the solution to every new computers user's problems: complete control of every aspect of a computer without ever having to get too technical. Unfortunately, that original dream never quite materialised and even today, with machines as powerful the Amiga, the new computer user is still often held back by a plethora of technicalities

One of the most common complaints of first-time Amiga users is that, from Workbench. only files on a disk that have icons are visible. If a file doesn't have an associated '.info' file. then it is completely hidden from the Workbench user. To combat this, PopDIR was devised. PopDIR will allow you to display the complete contents of any given directory, therefore unveiling those hidden files before your very eyes.

As well as this very useful task, PopDIR also has a secondary, and potentially even more useful role: it's a virus killer. Many of you may have heard of the IRQ virus, a particularly nasty little beast that attaches itself to an executable file and therefore cannot be killed by the usual bootblock checkers. PopDIR has an extra option 'IRO Check' that, when it displays the contents of a directory, will also check every file within that directory for the deadly IRQ virus.

#### **Getting Going**

You can load PopDIR by doubleclicking on the PopDIR icon. When PopDIR has loaded, it will 'iconise' itself by placing a small icon near the top left-hand corner of the screen. To start PopDIR running. just click once on this icon and the program will spring to life. Full instructions on PopDIR's uses are available within the PopDIR drawer.



■ The Amiga Format Demo, kindly programmed especially for us by... well, you can see their names includes a goodly-sized chunk of some extremely enjoyable music as well as the fine graphics.

PROGRAM: BY 17BIT SOFTWARE FILES: MUSIC. MUSIC.DOC

After the phenomenal success of the swinging frog demo from Issue One's Coverdisk, we've been searching hard for a worthy follow up to that classic demo. This month's demo was written specifically for us by those talented chaps Allister Brimble and Rico Holmes, who will be instantly familiar to any of you who purchase PD disks from 17 Bit Software.

Allister and Rico have produced a vast amount of quality

music and graphics which can be found in abundance within 17 Bit's huge range of demos, and Allister's work has featured several times within our very own PD Update section.

Both Allister and Rico are looking for freelance work producing graphics and music for the Amiga. If you're a software house and you'd like to contact either Allister or Rico, check out the documentation on the disk for further details.

#### **Getting Going**

You can load our Amiga Format demo by clicking on the MUSIC icon on the Workbench. The program is crunched and so don't be alarmed when the screen display starts to shake. This is just the demo decrunching itself, ready to be run.

PROGRAM: BY **ELECTRONIC ARTS** FILES: CLIPART.001. CLIPART.002, CLIPART.EXAMPLE

Thanks to those awfully nice people at Electronic Arts, you can try your hands at the techniques described in our DPaint tutorial in this month's issue of



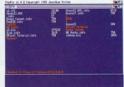
■ The clipart bits and pieces.



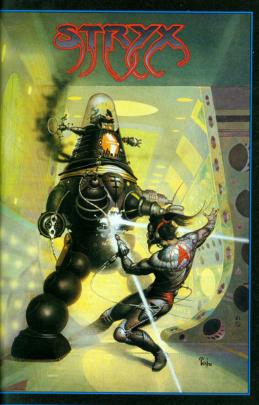
Having loaded the Coverdisk via Workbench, just click once on the PopDIR icon at top left to bring the program to life.



ose the directory to be viewed from either the presets or by typing the full pathname into the string gadget.



PopDIR is now up and running in full effect. Here, we are also checking for the presence of those elusive IRQ viruses.











**PSYGNOSIS FREEPOST** LIVERPOOL L3 3AB UNITED KINGDOM Tel: 051-709 5755

**PSYGNOSIS** 

**GAMES PEOPLE PLAY** 





Ultra smooth 8 way scrolling

- Designed with small fully animated characters from Garvan Corbett, the artist who brought you the classic hit Barbarian
- Multi-directional free format weapon usage
- Large playfield for even more action.

You're really up against it this time. Those revolting robots have finally upped and timed their horribly powerful weapons on their kind human masters. Someone's got to stop it before it all gets out of hand. I mean, you just can't have bloodthirsty Cyborg assassins roaming the streets of Dome City and expect the clizens to put up with it. Who on earth is going to sort out the mess? You guessed

- you get the job.

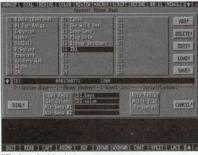
Fortunately, you are just a little bit on the special side. You are Stryx, the product of Project Alpha Secure, the meanest lighting, smartest thinking machine ever invented. Half-man, half-robot, you are the business, the only one who can stop those wicked Cyborgs.

You'll have to work hard, though, blasting hordes of the revolting creatures (such a sad waste of scrap metal) and rescuing the keys to the Lifeforce.

So, Stryx, you'd better get your jet pack on for some high level robot stomping through the immensely complex underground world of the Dome cities. It's a tough assignment, and time is running out.

AMIGA/ATARI ST £19.95

Screen Shots from the Atari ST Version



■ The Access! serial port set-up page. Amiga Format. Thanks to EA. we've been allowed to give you a

selection of the clip art from EA's

excellent Deluxe Paint 3 pack-

age, which you can use in just about any paint package that

supports the IFF file format

(which is just about every Amiga

paint package under the sun!

More details of this below.)

**Getting Going** 

To be able to take advantage of these clip art files, you'll need to have access to an IFF compatible paint package. If you don't have a suitable package, but would still like to play with the clip art, check out the PD libraries, which include several high-quality paint packages that will more than fit the bill. For





■ Keep a list of all your favourite bulletin boards with Access!

further info on the use of the clip art, check out the DPaint tutorial on Page 25 onwards.

FILES: ACCESS! ACCESS! DOC

Calling all you Comms kids. Thought we'd forgotten you, didn't you? Not us matey, we've got an extra special treat for all you comms enthusiasts in the form of Access!, probably the best PD comms package in existence.

Access! is a powerful communications package that includes everything you'd expect from a full-

price commercial comms package. The program features all the standard communications features such as fully configurable baud rates, multiple file transfer protocols, multiple phonebooks... and the list continues.

I must admit that the one thing that attracted me to Access! was not the wealth of features, but its presentation. Presentation is one area of software design that tends to be sadly neglected these days, and so it's always nice to find a package that is not only powerful, but also looks nice.

Even if you don't have a modem, Access! can still be a valuable addition to your collection

# **USING THE DISK**

**Backing Up Your Disk** For a number of reasons, it is

rather important to make a backup copy of the Coverdisk as soon as possible. Copying the disk may sound like a complicated task suitable for technobuffs only, but it is surprisingly simple provided you read the following instructions carefully:

1. First, turn on your machine and load Workbench. Once the Workbench screen appears and the disk-drive light goes out, remove your Workbench disk and insert our cover disk.

2. Next, click once on the Coverdisk icon and then press the right mouse-button and the Workbench menus will appear. Now, while keeping the right mouse-button depressed (you can cheer it up afterwards!), move the mouse pointer over to the Workbench' heading and a menu will drop down. Move the mouse

pointer over the 'duplicate' menu option and then press the left mouse-button.

3. After a few seconds' disk access, the Workbench DiskCopy tool will be loaded and run. Now just follow the on-screen prompts and your Amiga Format Coverdisk will be copied to a backup disk. When the machine asks for the destination, insert your blank disk into the drive. Further instructions can be found in the user's guide that comes with your Amiga.

> Before using your Amiga Format disk, you should make a back-up of the master disk as soon as possible. This is very important!

#### Using the Programs

All the programs on the Amiga Format disk are specially set up to make them as easy to use as possible. If you can use the Amiga's Workbench then you can use our Coverdisk! If you do have problems with a program, full instructions on loading and using the programs are included in the Disk Pages and these should get you up and running. If you still have problems, you should read the documentation file (.DOC) that is included with every program. To run any of the programs on this month's Coverdisk, all you have to do is follow a very simple procedure. Unless specified differently within the Disk Pages, just double-click on the program's icon on the Workbench and the program will load and run. Full details on how to use the programs once they have run are included with the Disk Pages and also as a documentation (text) file accompanying the program.

To display a documentation file, just double-click on the appropriate .DOC file to be viewed and a window will open containing the file's contents. Pressing the space bar will advance a page at a time.

#### Is Your Disk Faulty? We have done our best to check

that the programs on the Amiga Format Coverdisk are simple to use, error-free and have no known viruses. However, we cannot normally answer telephone queries on using the software, and we do not accept liabil-



Access! in action on the ID2 bulletin board.

of utilities. For example, what do you do if you have another computer, other than an Amiga, that you wish to port files across from for use on your Amiga? You use Access! of course! What you'll need is just a simple lead to connect between the serial ports of both machines, and you're away.

#### **Getting Going**

You can load Access! by double clicking on the Access! con from Workbench. During loading, Access! may appear to have crashed back to Workbench – don't worry, the program is working and if you leave Access! alone, it will eventually load and run suc-

cessfully. The program will sit, apparently doing nothing, for a minute or so before loading the rest of the program. As always, patience is the key.

If you have a 512K Amiga, you

may have to turn off your machine and reboot Workbench from scratch so that Accessf has as much memory available as is possible. When using Accessf always make sure that it is the first program you load once your machine has been switched back on and workbench has been loaded, and it should load without problems. For further information, consult the program's documentation file, Access IDOC a

## WORKBENCH HACKS

PROGRAM: PUBLIC DOMAIN FILES: VIACOM, DK

Our regular collection of Workbench hacks certainly is proving to be popular: we received a vast number of letters from you saying how much you enjoy these seemingly useless programs. This month's collection continues the age-old tradition of being totally useless but a for of fun.

#### **Getting Going**

You can load either of this month's Workbench hacks by double-clicking on either the Viacom or DK icons on the Workbench. A particular hack's purpose may not be immediately obvious, so you may have to just sit back and wart for something to happen. Don't worry, eventually weird things will start to affect the screen...



■ Aaagh! What's happening to my Workbench screen?

#### ity for any consequences of using the programs on the disk.

If your Amiga Format disk is faulty — and out of the tens of thousands duplicated, some are unfortunately bound to be — you should send it back for a free replacement within a month of the cover date to: Amiga Format October Disk, Discopy Labs, Unit A, West March, London Road, Dwentry, Northants, NN11 45A.

#### Copying the Disk

Unless specifically stated, the programs on the Coverdisk are not in the public domain and the copyright remains with the author. Selling or distributing these programs without the author's permission is against the laws of copyright.

EARN	YOURSELF	2000
EADIN	IUUNSELF	LOUU

Name		BRIEF DESCRIPTION	
Address			
Telephone (Daytime)		CHECKLIST (please tick):	
My program name is		Stamped, addressed envelope for return README.DOC explanation file on disk	
		Printout of README.DOC file (if possible)  Name, address, machine type written on label  Disk certified virus free	
publication). It is a:	Technical tool	IMPORTANT Please sign this declaration: This program is submitted for publication by Amiga Format. It is	
Business utility	Art program	wholly my own work and I agree to indemnify Future Publishin, against any possible legal action should copyright problems arise.	
Music program Novelty	☐ Educational ☐ Other	Signed	

If you've got any programs for the Amiga which you think other readers would find useful, interesting or amusing, we'd like to know about them.

1. Make sure your program is foolproof to use. 2. Create a file called README.DOC on the disk which explains exactly how to use your program.

3. Fill in this form, sign it, and send it without delay to

CoverDisk Software, Amiga Format, 4 Queen Street, BATH BA1 1EJ

You could win a share of £800 prize money for the best programs each month.

# **PUBLIC APOLOGY**

M.D. Office Supplies would like to take this opportunity to apologise to all its competitors.
We shall with immediate effect supply direct to the public,

Computer discs, Storage boxes, etc. AT BELOW WHOLESALE PRICES

#### CHECK OUT OUR NEW LOW LOW PRICES

#### 3.5" DISCS & BOXES

25	3.5" DS-DD 135 TPI with 40	Capacity Lockable	Storage Box	£22.95
	3.5" DS-DD 135 TPI with 80			£31.95
	3.5" DS-DD 135 TPI with 80			£37.95
	3.5" DS-DD 135 TPI with 80			£40.95
	3.5" DS-DD 135 TPI with 80			£44.95
	3.5" DS-DD 135 TPI with 80			£49.95
,,	0.0 DO DD 100 11 1 Militor	oupdony Education	olologo oo	

OUR 3.5" DISCS ARE VERY CAREFULLY SELECTED TO GIVE YOU 100% ERROR FREE PERFORMANCE. EACH DISC IS OFFERED WITH OUR 100% MONEY BACK GUARANTEE AND SUPPLIED WITH LABELS

#### STOP PRESS - STOP PRESS - STOP PRESS - STOP PRESS

For all you bulk buyers out there we have some unrepeatable FIRST COME - FIRST SERVED OFFERS 3.5" DSDD 135 TPI 100% error free top quality discs

ı	100 DS DD 135tpi£59.99		DS DD		£179.00
ı	200 DS DD 135tpi£114.99	500	DS DD	135tpi	£249.99
١	250 DS DD 135tpi£134.99	1000	DS DD	135tpi	£489.99

#### **SPECIAL PRICES ON PRINTERS**

Star LC10 Mono	£179.95
Star LC10 Colour	£230.00
Star LC24-10 24 pin	
Panasonic 1081	
Panasonic 1180	£199.00
Epson LX800	£189.00
Epson LQ500	

All Printers supplied with lead

#### **BUYING A LASER?**

Then give us a ring for the best prices in town

#### SPECIAL NEW PRODUCT LINE

We have now got a professional quality combined keyboard and mouse mat with special anti-static lead.

A beautiful accompaniment to your computer system and offered to you for only

£24.99

#### ACCESSORIES

Deluxe Mouse Mat	£2.49
3.5" Head Cleaner	£1.99
Atari Printer Lead	64 99

#### You want it -Well we've got it

For your Mouse to perform correctly and precisely it needs to be regularly cleaned. We have got the ultimate mouse cleaner specifically designed to do a proper professional job for only

15.95

Trade enquiries welcome

#### **Tractor Feed Labels**

3.5" Pack of 100	£7.99
	£12.99
3.5" 3 x Pack of 100	£18.99



#### M.D. OFFICE SUPPLIES

18 CRESCENT WAY, FARNBOROUGH, KENT BR6 9LS TELESALES HOTLINES: 0689 61400

All prices include VAT and Delivery UK only. E/OE Education's Trade Enquiries Welcome





# Continuing his travels in the world of Amiga GRAEME KIDD

looks at two packages

that offer full colour separation facilities. Real Power User stuff, but first a quick lesson on colour printing methods...

# **PRINTING RAINBOWS**

G etting full colour images to print on paper is partly an art, mostly a science, and couldn't be done without just a little bit of magic. And until recently, it was also a very expensive process using traditional methods, it can cost several hundred pounds to prepare a single colour page for the printing press.

The basic theory behind the techniques used to print colour magazines such as Amiga Format is straightforward enough, and applies to most full colour printiobs. By mixing three coloured printing inks in different combinations it is theoretically possible to make any colour you want and put it on a page. Cvan. Magenta and Yellow are the inks you need, and in the trade they are referred to as 'Process' colours. (Similarly, using Red, Green and Blue light it is possible to create and display any colour in the world that's how a colour monitor or TV screen works.)

There's one little refinement to the basic concept of mixing Process inks. Even though the theory about combining Cyan, Magenta and Yellow to produce any colour you like holds true, the black achieved by mixing the three colours isn't very convincing when it is printed. Quite early on, printers discovered that a much better finished result could be achieved if they deviated just a little bit from the pure theory of colour: most full colour printing involves using a fourth Process ink - Black.

Printers make room for some Black ink by removing just a little bit of Cyan, doing away with just a touch of Magenta and getting rid of the tiniest amount of Yellow, They also use their Black ink to print black areas of an image and to generally crispen up the appearance of the printed picture. While there are complicated algorithms in use for generating the black component of an image, doing it right involves the use of little magic...

When it comes to printing a colour page, four different printing plates are needed, and the paper has to come into contact with each of them in turn so that the Cyan, Magenta, Yellow and Black inks can be applied. It's a tricky job getting the four Process colour images to align perfectly with one another,

Colour separation and printing can transform pages beyond recognition

- here's how but that's the printer's job. As a

publisher, it's your job to provide the printer with four pieces of film for each page so the printing plates for Cyan, Magenta, Yellow and Black can be made.

#### Getting the mix right Now would be a reasonable time to

it'll make things much clearer in a moment. (Don't worry, we won't be needing the washing up liquid bottle and sticky-back plastic today.)

Think about all the colours there are in a photograph, and about how the zillions of shades in a complicated scene blend smoothly into one another. Obviously, a printer can't mix every individual colour there is in a picture and print a solid representation of the image on paper. It'd take years, or even decades to print a single issue of Amiga Format that way, even if it were possible.

It's time for the printer to perpetrate a con job.

If you look closely at any colour picture printed in this magazine, you'll see that it is made up of lots of little dots. With the aid of your go and fetch a magnifying glass - | magnifying glass, you'll see that the four Process colours are not in fact mixed together at all on the page. but are printed as dots of differing sizes arranged in a regular rosette pattern. This is where the con lies. Your eve views this arrangement of coloured dots, and at normal magnification is fooled into mixing the colours for the printer. You do all the hard work needed to achieve those subtle shades!

Take a close look at one of the subtle colour tints our artists have put on a page, or examine some text that has been printed in one of our Art Editor's favourite colours, and you'll see how two, three or four Process colours can be combined. Magazine Art Editors can create any colour they like for text and tints by specifying percentage mixes of the four Process colours - don't forget. 0 is a percentage too.

#### Creating the Illusion

The expensive element of traditional full colour printing is colour reproduction, the bit that can cost several hundreds of pounds per page.

In the days before DTP, you had no option but to prepare black artwork with an overlay on which you specified the colour mixes for >

Management Yellow, magenta, cyan and black - the four colours which when overprinted, produce a full colour picture. YELLOW MAGENTA CYAN BLACK





# COMPUTING







#### AMIGA SOFTWARE

African Raiders	613	3.5	50
Balance of Power 1990	€11	6.5	50
Battlechess	211	6.5	50
Bio Challenge	£16	6.5	50
Circus Attractions	£1:	3.5	50
Falcon F16	C11	3 6	SA.
Falcon Mission Disk	£1:	3.5	50
Fed. of Free Traders	821	3 6	20
Forgotten Worlds	213	3.5	50
Grand Monster Slam	£16	5.5	50
Gretzky Hockey	£16	5.5	50
Hawkeye	£13	3.5	50
Kick Off	£13	3.5	50
Kult	£16	3.5	50
Lords of the Rising Sun	£15	9.5	50
Mayday Squad	€13	3.5	50
Millenium 2.2	£16	5.5	50
Microprose Soccer	€16	5.5	50
Personal Nightmare	£20	9.0	99
Populous	£17	7.5	60
Powerdrome	£17	7.5	0
Robocop	£16	3.5	0
RVF Honda	£17	.5	90
Skweek	£13	3.5	90
Sorceror Lord	216	5.5	NO.
Spherical	£16	.5	0
Targhan	216	5.5	NO.
T.V. Sports Football	210	0.5	Ď
Weird Dreams	215	0.0	C
3D Pool	EIC	0.5	U
30 F001	EIC	0,0	U

#### AMIGA

#### AMIGA 500 + DELUXE PAINT 2 + DELUXE PRINT £399.99

AMIGA 500 Inc. Modulator, Workb h 1.3. Mouse, Manuals + Leads

£359.99

AMIGA SPECIAL GIFT PACK Amiga 500 inc. Modulator, Workbench 1.3 and Manuals. 10 Games and Photon Paint or 8 Games, 24 PD Titles & Joystick, Either of above Plus 80 Capacity Disk Box, 10 x 3.5" Disks, Mouse Mat, Dust Cover. All for only: £399.99

AMIGA 1 MEG

£489.99

AMIGA 500 + 1084S Med Res Colour Monitor £589.99

AMIGA B2000 Inc. B2000, XT Bridgebo

d Drive, + 1084S Monitor £1499.00

**A501 1/2 MEG RAM EXPANSION** £129.99

> AMIGA 500 + MUSIC X £548.99

#### MUSIC & SOUND

Aegis Sonix V.2	£44.95
Aegis Audiomaster II	£59.95
AMAS	C77 OF
Future Sound	674.95
Perfect Sound	674.05
Pro Sound Designer Gold	674 99
DR T's KCS	£159.95
Eidersoft Midi Interface	£24.95
Datel Midi Interface	£34.95
Dynamic Drums	00.949
Dynamic Studio	650 00
Studio Magic	£59.99
Adrum	£36.95
Deluxemusic	£59.95
Music X (Out Now!)	£199.99
Dr T's Midi Recording Studio	£52.95

#### **ART & ANIMATION**

Lights, Camera, Action	£47.95
Zoetrope	679.95
Digiview Gold	£129.99
Deluxe Paint II/Deluxe Paint Combo	
Deluxe Paint III	
Aegis Videoscape 3D	6100.00
Comic Setter	£44.99
Movie Setter	C59.99
Deluxe Photo Lab	660 00
Deluxe Video	660.00
Photon Paint II.	\$79.99
Photon Paint II	£109.99
Aegis Animagic	662.99
Aegis Video Titler	€84.99
Comic Setter Clip Art Disks	£19.95
Fantavision	C36.99
Icon Paint	£13.95

A501 RAM Upgrade	£129.99
Workbench 1,3 Enhancer	£13.50
Disk Drive Cleaner	£4.95
Mouse Mat (Soft)	£4.50
A500 Dust Cover	£6.50
Amiga to Scart Lead (Not Sony)	£9.95
Quickshot II Joystick	€8.50

9	80 Capacity Disk Box	€6.50
0	Monitor Covers From	66.95
5	A500 Power Supply	\$62.50
0	Modulator	£24.99
0	B/W Handy Scanner	£209.99
5	Philips AV7300 Tuner for monitors	666 693
0		689 99

#### **PRINTERS** CTAR I C10 ma

STAR LC10 colour inc. Cable	£229.99
CITIZEN 120/D inc. Cable	£139.99
EPSON LX800	£189.99
STAR LC24/10 inc. Cable	£324.99

#### MONITORS

Commodore	10845	£259.91
Phillips 8833		C220 04

#### DRIVES

umana 1 Meg	3.5° with on/off	C94.96
IEC 1 Meg 3.5"		C89,95
		C499.95
imdrive 30 Mb		C389.99
590 20 Mb (with	optional RAM Upgrade	
mdrive 50 Mb		£489.99

All prices include VAT. Please send Cheques/P.O. Made payable to:

DEPT AMF, CROMER HOUSE.

CAXTON WAY, STEVENAGE, HERTS. SG1 2DF

★ CREDIT CARD HOTLINE: 0438 361738 ★

FAX: 0438 740 794

If you do send cash please send it Registered All Goods are sent First Class/Registered. Please add £3.00 for outside U.K.

Large orders ie. Amigas, ST, Monitors etc. are always sent by courier. Please add £6.00 if you require next day courier delivery on other items. rect at time of going to Press and are subject to change without prior notice.



10

25

50

200 ...

100

TOP QUALITY 3 1/2" DS/DD GUARANTEED **BULK DISKS** 



**NEW PRICES** 

£7.95 £17.50 £33.50 £65.00 £128.00

PRICES INCLUDE LABELS Add £5.50 for 80 Cap. Disk Box when ordering Disks or £4.50 when ordering 50 or more Disks

# The word is PROTEXT...

#### Now available - Version 4.2 of Arnor's acclaimed word processor

PROTEXT is very fast! Unlike the majority of Amiga word processors PROTEXT scrolls very quickly and redraws the screen in next to no time. We have achieved this by developing our own screen handling routines - much faster than the standard ones.

PROTEXT uses the Amiga 'WIMP' interface fully and supports pull down menus, use of the mouse for cursor movement and block copying and window resizing. PROTEXT makes full use of Amiga Preferences settings and is fully compatible with the Amiga's multi-tasking operating system.

Protext is the result of 4 years of development. Unlike the majority of competitive programs Protext is 100% British and is being developed further all the time in response to the needs of British users. Registered users are always informed when upgrades are available.

"Protext really is the best text proc

STIAMIGA FORMAT 2/89

"Protext - the real joy comes only from using it. I can say without any fear of contradiction it is the best word processor available at the price, in my view, at any price in

#### A brief summary of some of Protext's features ...

Dictionaries Disc utilities

Exec files File conversion Find & replace

Foreign languages Formatting Headers & footers

Keyboard macros

Line drawing Line spacing Printer support

Printing styles

Background printing edit/create further files while printer is busy Box manipulation move, copy, or delete any box as well as blocks
Configuration set over 50 options to your own preferences using

set over 50 options to your own preferences using our menu driven configuration program add/delete words to/from supplied 70000 word English dictionary. Create your own dictionaries. copy files, erase, rename, type, create directory, change directory, remove directory, catalogue files store sequences of commands in files for easy use flexible file conversion utility for other WP files very powerful and fast with many options.

10 built in keyboard languages. Easy to accented letters: ă æ ç ö ü è é ß à ù ô ê ñ etc. auto-reformat; reformat para, block or whole text. up to 9 lines of text, different even/odd headers and footers, auto page numbering, footnotes.

and footers, auto page numbering, footnotes.
edit and command help available on-screen
string any sequence of letters together on a single
key e.g. "Yours sincerely". Load and save macro
key files. Special recording mode as you type.
ideal for drawing lines finct. corners) around text
variable in half lines, including 0, %1, 1, %2, 22 works with any parallel or serial printer. Wide range
works with any parallel or serial printer. Wide range of printer drivers supplied, incl. lasers and 24-pin or printer drivers supplied, incl. lasers and 24-pin printers; or create your own drivers or edit ours. bold, condensed, double strike, elite, italics, enlarged, pica, NLQ, subscript, superscript, microspacing, proportional spacing, any other printer fonts

Program mode Quick dictionary **Buler lines** Spelling checker

Symbols

Time and date

Tutorial files Two file editing Typewriter mode Word count Word puzzles

Wysiwyg

suppresses formatting; auto-indent; set tab stops will print proportionally spaced, right justified text dictionary held in memory is very fast any number of ruler lines to define document layout, Proportional text left/right margins and normal/decimal tab stops check whole text from disc or memory, or as you type. Suggests alternative spellings. Works with foreign

languages full character set available on screen. Character symbols may be redefined

me shown on screen. Insert time or date into document help you to start using Protext two documents in memory, copy text between them

direct printing for envelopes etc

retrieve text deleted in erick, whole text or just a block anagram and crossword solving features on-screen bold, underline, italics Mail merge The most comprehensive mail imerge program available. Use it for labels personalised "standard letters", club membership lists, and much more: read data from files from any database or spreadshet program - ask for variables from keyboard - slipplay message while printing - include file for printing - reformat whilst printing - reformat whilst

conditional printing and repeat-until loop constructs
 numeric calculations and string expressions including substrings

\* commands to write information to a separate file \* operators +,-,\*/,<,>,<=,>=,=,<>,IN,NOTIN

#### Protext is a professional word processor

#### If you want a fast efficient program for processing words, get PROTEXT

#### **Latest News and Announcement**

Version 4.2 is now available. Enhancements include:-

- \* Revised and improved 300 page manual and index \* Current date and time are available as single key strokes
- \* Improved memory allocation and smaller program makes
- better use of your memory. \* Scroll Lock function pauses after displaying a screenful of text
- Upgrade price from v4.1x :- £15.

#### COMING THIS AUTUMN

"PROFILE" - the Arnor Database for PC/ST/Amiga. (People have been waiting years for this)

Prices	IBM PC	Atari ST	Amiga
Protext v4.2	£99.95	£99.95	£99.95
Protext Filer	£24.95	£24.95	£24.95
Protext Office	£34.95	£34.95	£34.95
German Dictionary	£19.95	£19.95	£19.95
Demonstration disc	s available	- nlease nh	none



Releasing your micro's potential ...

tint boxes and coloured text. You'd leave white spaces on the artwork where you wanted colour pictures to appear on the printed page. then send the artwork and overlay off to a repro house with the pictures. The repro house would duly return a set of four films from which the plates to print the page were made. They'd also send you a bill.

This traditional method is still the only way to achieve perfect results with pictures unless you sands of pounds on repro equipment. In order to capture the image in a photograph, separate it into the four Process colours and output it to film ready to be incorporated into the films for your page, a repro house will use a scanner. They will have paid a guarter of a million pounds or more for their scanner, which explains two things: first, why repro houses have to charge you serious money, and secondly why an Amiga. tem can't match the perfect results of the repro man

With colour DTP it's possible to save money by doing some of the repro house's work - producing sets of film that have the tints and colour text, then leaving the colour separation of pictures to the man with the #1/4 scanner. If acceptable rather than perfect results are your goal, or if DTP with colour separations provided via a video camera or desktop scanner means want to spend hundreds of thou- | Macintosh or PC based DTP sys- | you can afford to use colour, then

full colour DTP is for you.

Whatever your motivation, the Amiga offers the cheapest route into full-colour DTP work, and even though an Amiga can match the power of of vastly more expensive PC and Macintosh systems, it has largely been ignored by UK printers and publishers. Next month, we'll be taking a look at people out there in the real world using Amigas for commercial DTP work, meanwhile check out Professional Page and Page Stream...

# PROFESSIONAL PAGE

Gold Disk's slogan, which appears on the cover of Professional Page manuals, is 'Advancing the art of desktop publishing.' It is certainly justified so far as the Amiga is concerned: Gold Disk has been at the leading edge of Amiga DTP for some while now, and has advanced Professional Page itself through version 1.1 to the current v 1.2. The software has a pedigree: it has been in use for a couple of years, and the refinements in the latest version take account of requests and suggestions from

In many respects, Professional Page mirrors the method of working adopted by PageMaker, the classic DTP program that got the ball rolling on the PC and Macintosh. The basic concept models the traditional working methods of the paste-up artist. Documents are assembled as if they were physically placed on a designer's table, so the frames that are used to hold text or images can be picked up, moved off the page and 'parked' on the tabletop until they are needed.

Everything you might need to control layout and typography is offered via the pull-down menus X = -3.7867, Y = 4.8888

■ Emulating the traditional approach taken by pasteup artists - here a picture is being dragged from the drawing board onto the page.

and toolbox icons, with no omissions. While hyphenation is controllable via dictionaries in English, French and Spanish, with Professional Page you are expected to check your spelling at the subediting stage rather than in the document

The work area can be viewed in five magnifications, including actual size and 200%, and a cunning page preview gadget in the default, the display is in interlace

toolbox shows a schematic of the entire page when it is too large to fit on the Amiga screen. Move a cursor over this tiny representation and you can jump to any area of the page without having to scroll around hunting blindly. A neat touch, which is complemented by a hand-move tool that allows the work area to

be shifted around on screen. By

Output Page Specifications == Pers. XIRIIII VIRIIII Scale XMILIX YMILIX Retation @ Pertrait () Landscape () Center Detput Pass Sirs X: SMCIII V: SMCIII O Crop marks: length: UMMIII open up.: URMEL bleed: URLEE

ofessional Page VI.2 § 1989 Gold Disk Inc. Document: Untitled

■ Part of the PostScript control process offered by Professional Page - screen angles and resolutions for the four Process colours can also be controlled when full colour work is being output

mode (recommendations are made in the manual as to less flickery monitors), but it can be toggled to the more stable Amiga resolution...

Frames, or boxes as the manual prefers to call them, can be linked together in chains so that a story can flow through several locations on a page or in a document. To make life easier when your nose is firmly against the layout board, two tools allow you to move automatically from the current location to either the previous text box in the chain or the next one. Following the flow of a story is therefore a doddle.

A set of six basic drawing tools are kept handy by the side of your paste-up desk, and a basic selection of line and fill types are offered, which can easily be set to virtually any colour. For the benefit of those with more sophisticated illustrative needs, version 1.2 now supports Gold Disk's Professional Draw package, and also handles high resolution bitmap graphics. so there's plenty of scope for getting sophisticated images onto your pages.

In essence, Professional Page is a powerful and quietly competent DTP package with a friendly interface. It is typographically excellent. and justifies the "Professional" tag. What makes Professional Page a stunning DTP product - and not just a stunning Amiga product, but one that stands up very well to top of the range PC and Macintosh packages - is the degree of control it offers over the creation of colour separations.

Originally, Professional Page supported PostScript devices: it was intended to be a serious publishing tool from the beginning. The program learnt to deal with dot matrix printers with V1.1, but has always existed to .



■ The interlace display mode allows your work to appear on screen in high resolution. Monitor flicker may make this mode uncomfortable to

cope with the sophisticated out- I out needed to produce professional colour work:

The Print to PostScript submenu offers all the options you need to consider when preparing output for a laserprinter, remote typesetting bureau or for subsequent import by another PostScript-compatible program. When preparing full colour separa-

tion of the screen used to create I the dots, and can also control the angle at which the screens are output to film. Mono, three colour and four colour senarations can be made and you even have control over undercolour removal and component replacement (which has to do with the 'magic' process whereby real Black is introduced as a fourth colour into tions you can specify the resolu- an image which could theoretically

be printed using only Cyan, Magenta and Yellow). Colour PostScript is also supported.

Gold Disk have designed and written Professional Page to be an integral part of integrated. Amiga-based publishing operations. As such, it fits into a range of publishing products produced by Gold Disk themselves and Amiga suppliers. PageStream, when it appears, is unlikely to knock Professional Page off its perch. Put simply, Professional Page is currently THE package if you want to use an Amiga to produce high-resolution pages and separations.

PROFESSIONAL PAGE C29.95 incVAT ■ 1 Meg Amiga, two drives strongly ommended # HB Marketing 0895 444433

# PAGESTREAM

Silica Systems, the people behind the UK version of PageStream. believe it will be the ultimate Amiga (and ST) DTP system. They may or may not be right, even though it will take a remarkable product to push Professional Page and its track record off the top slot it currently enjoys.

Amiga PageStream is in the last throes of programming, and the original American manual is currently being rewritten by native English speakers. This all means that your humble reviewer has not vet received a finished copy of PageStream and indeed, has not had the pleasure of reading an accompanying manual. The advanced preview copy supplied to us by Silica is certainly impressive, and if everything works as it should do in the released version, then Silica certainly have a challenger...

Romping around inside the preview software in the absence of documentation revealed the userfriendly nature of PageStream: anyone with a reasonable experience of DTP software should be able to get up and running without reference to the lovingly Anglicised manual. As might be expected, the system is designed to work on the basis of an old DTP favourite, frames, which accept text or graphics once they have been drawn on the page.

#### Roundabout

One of the more cunning aspects of PageStream lies in its frame handling facilities. Sure, you can shuffle a frame full of text around a page or even move it from page to page. but you can also rotate it. Cunning? Certainly, and what's more, you can rotate a frame in three planes: rotating it and about its centre on the page, or, via the 'slant' and 'twist' options, on each of the two planes at right angles to the page. With a bit of creative effort, the distortions to the contents of a frame produced by the rotation function could be put to striking use.

When it comes to moving frames and their contents around the page, or shifting objects such as rules and line artwork drawn directly on the page, PageStream offers a 'group' command, If you have just got a picture frame in perfect alignment with a couple of rules and a frame that contains the caption, it's possible to group all four objects together and then manipulate the group as if it were a single object.

The approach taken by PageStream's designers to frame handling illustrates the design attitude that underlies the product. You get the feeling that each feature that you would expect to find in a worthwhile DTP package was examined in detail and then embellished or enhanced before it was incorporated into the PageStream concept.

The page view facilities, for instance, offer all you could possibly want. From the pull-down View menu, you can choose to view a document at actual size, 50% reduction, 200% magnification, or with either the full width of the document or the full page on screen. Fair enough, you might think, but PageStream doesn't stop there. A variable zoom facility allows you get really close to a selected area of the page, and a show/set user scale option allows you to work at virtually any default magnification you choose, Impressive, although not vital. And in our Beta Test pre-



graphic, rule and text box containing the words "hello there

view copy, too much fiddling with the view menu tended to make the system hang... but this is a Preview.

The dictionaries for hyphenation and checking spelling can be edited, and a reasonable level of control over the hyphenation proce-



■ Fun with text runaround - for straightforward jobs, PageStream offers a choice of automatic runaround methods.

wrap around seriously complicated objects by fiddling around with a polygon tool, five automatic approaches to wrapping text around a regular shaped object are offered on a Runaround submenu. Objects can be moved and automatically aligned with one another on the page via a submenu. And the range of text styles offered is impressive: mirror, upside down, single underline and double underline are amongst the options. It'll be interesting to really get to grips with all these facilities when the final version is complete

#### **Design Benefits**

Obviously, PageStream's designers have had the benefit of their own and other people's hindsight. and they have specified a product which looks and feels friendly. When the programming and manual re-writing effort is complete, PageStream will indeed be a nowerful and useful package, providing everything currently offered in the Beta version can be made to

work in the final release. Silica promise import/export modules/drivers will be continually written to allow new output devices to be driven by the software and to provide inward compatibility with Amiga users' favourite text and image generating software. A more detailed PostScript/colour separation outout module would be the first on my request list - in the absence of the manual, it would appear from the Beta version of PageStream that the level of control you have over the generation of colour separations is minimal. If producing four-colour separations is important to you, then Professional Page looks to have the edge at the moment (not least because it is immediately available). Clearly, when PageStream is released it is going to give Professional Page a good run for its money - we'll keep you posted...

> PAGESTREAM (Beta version)

C171 35 inc VAT # 1Men nded E Silica Syste 01 309 1111

71, Wadham Road, North End. Portsmouth, Hampshire, PO2 9ED

0705 670878



## ·· AMIGA ··



1-	FALCON II-MISSION DISK (Mirrorsoft)	£ 14.90	↑ — Commodore
2.	ROBOCOP(Ocean)	£ 16.90	Commodore
3.	XENON II-MEGABLAST. (Image Works)	£ 19.70	
4-	RED HEAT(Ocean)	£ 16.90	t → 10 DS/DD
5.	BATMAN(Ocean)	£ 16.90	1
6.	GEMINI WING (Virgin Games)		Terms: 100
7-	INDY & LAST CRUSADE (US Gold)		-
8-	SHOOT 'EM UP CONST. KIT (Palace)	£ 19.80	ALL RE
9.	BEACH VOLLEY(Ocean)	£ 16.90	DIS
10-	KICK OFF (Anco)		Sp
11-	BALANCE OF POWER 1990 (M/soft)	£ 18.80	
12-	XYBOTS(Domark)		Вотн А
13-	HONDA RVF750 (Microstyle)	£ 16.90	
14-	DRAGON NINJA(Ocean)	£ 16.90	-FULL PRIC
15-	SLEEPING GODS LIE(Empire)	£ 16.90	
16-	POPULOUS (Electronic Arts)	£ 16.90	
17-	NAVY MOVES (Dynamic)	£ 16.90	All order
18-	RICK DANGEROUS (Firebird)	£ 16.90	22
19-	PHOBIA(Image Works)	£ 16.90	All prices shown
20-	KNIGHT FORCE(Titus)	£ 16.90	Please me
21-	SILKWORM(Virgin)	£ 13.80	All items are fully
22-	KULT(Infogrames)	£ 16.90	just let us h
23.	SKWEEK(Loriciels)	£ 13.80	
24-	THE DUEL, TEST DRIVE 2 (Accolade)	£ 16.90	
25.	FIG COMBAT PILOT(D.I.)		Falcon & Fa
26.	THE NEW ZEALAND STORY (Ocean)	£ 16.90	and receibe a
27-	FALCON (Mirrorsoft)		Amiga Mous
28-	WICKED (Electric Dreams)	£ 16.90	Order
29.	THUNDERBIRDS (Grandslam)	£ 16.90	any 6 tit
30-	BLOOD MONEY (Psygnosis)	£ 15.90	10 FREE Blan
		and the same of	

- Konix Navigator Joystick ..... £ 9.20

- Zip Stick Joystick (Autofire) ..... £ 13.80

- Ram Delta Joystick.....

Commodore A501 512k Ram/Clock	£	134.80
→ Commodore A590 20MB Hard Disk	£	357.80
→ 10 DS/DD (800k) Blank Disks	£	7.99

CREDIT FACILITES % down and nothing more to pay!

#### ELEASED SOFTWARE SPATCHED AT THE PEED OF SOUND!

#### CCESS & VISA TAKEN

CE LISTS SENT ON REQUEST-

NON TECHNOLOGY varantood and if yo

#### ow and it will be replaced im - SPECIAL OFFERS -

alcon 2 TREE se Mat.

Orber amp 3 titles and receibe a FREE Amiga Dust Cober.

les ibe mk Disks.

Orber amp 8 titles and receive a FREE Konix Navigator 3/8.

Compact Discs are also available from Xenon Technology.

For a full list send an S.A.E.



# OWER

COMPUTING

A selection of special deals only available

#### FLOPPY DISK DRIVES

#### 3.5" 880K POWER DRIVE PC880 ONLY £69.95 INCREDIBLE!

\*New from Power House \* Break throughs in design and construction coupled with a brand new 3.5" drive unit from Epson - world leaders in peripheral technology - comes the PC880 manufactured in the UK at a price that smashes those of our competitors. Each drive is fully guaranteed for 12 months and comes complete with instructions, through port and isolating switch.

Disk Box with 10DS



#### 5.25" IRM™ FORMAT COMPATIBLE DRIVE

#### (RRP £139)

This fully switchable 5.25" 40/80 track drive can be used to read and write PC formats as well as normal Amiga formats



#### A500 HARD DISKS

#### TRIANGLE TURBO 46MB HARD DISK £499 (RRP £549)

Based on GVP technology this top of the range autobooting (1.3 KS) hard disk comes with lightning fast 28ms SCSI drive, with built in PSU and fan all in a matching cream case. Easy install software and



manual are provided. These drives also include an option to install 2MB of inexpensive 1x1MB fast ram to increase the Amiga's memory

Optional 2MB ram expansion £229

#### COMMODORE A590 20MB HARD DISK £379 (RRP £399)

Call us ow for a price on an A500 system!

Matching autobooting (1.3KS) Amiga 20MB 60ms XT drive with the ability to expand the Amiga's memory internally using 4\*256 drams in 512k (4), 1MB(8) and 2MB steps(16)

Optional 4\*256 drams for above £18 each

#### Orde HOTLINE Free Call

#### PRINTERS We are the

## Specialists



#### WE ARE OFFICIAL

PLOTTER AGENTS Star LC10 CIER Star LC10 Colour 6199 £299 Star LC 24-10 Star XB 24 -10 6499 Star XB-24 - 15 €649

Star +Pack extra ribbon + 1000 sheets of microperf paper and Amiga cable £16

Microperf Paper 1000 sheets inc post

**HP** Paintiet Colour £899 HP Desk Jet + £699 (We stock HP consumables!)

HP Laserjet 2 €1699 Compatible Qume LCS Cyrstal Laser (LCD) £2899

Postscript compatible ideal for Pro Page)

3.5"/5.25"



# Overnite Delivery

#### A500 MEMORY & VIDEO

512k Expansion with clock £85 (mp £99) 1.5MB Spirit board populated 512K

€249 1.5MB Spirit board unpopulated £189 Minigen Genlock £99 (rrp £115)

Processor Acelerator £139 Super Pic £429 JUST IN - G2 Video Centre £649

MULTIDRIVE £239 The King of Amiga disk drives with combined

5.25" and 3.5" units. Special circuitry allows IBM™ format disks to be recognised and the 5.25" drive is 40/80 track switchable. Multiple switching means that this drive can be set up in any configuration of drive numbers.

AX Disk Magazine

3 disks full of Amiga goodies in this highly professional disk based magazine Fantasic demos. clipart and PD goodies

To subscribe now, phone 0234 273000 for details



#### AMIGA B2000

Power House are the UK Amiga 2000 specialists with most products available at highly competitive prices and on display in our showroom, including video digitisers, genlocks, accelerators and emulators. Phone us now for a complete B2000 system quotation. A500 Systems are also available.

GVP Autobooting Hard Card 46MB (28ms) £499 (rrp \$549) GVP Autobooting Hard Card 102MB (11ms) £949 (rrp £999)

- 2MB Ram Card for above drives add £299 to hard card cost.
- Sky guest 44MB Removable Drive & Controller & 2MB Ram £1249 GVP 68030 card + Memory £1999
- · 25mhz Processor card with 4MB auto configured 0 wait state 32bit ram and software (makes Sculpt 4D & similar
- go like Concorde!) · Microway Flicker Fixer
- £299 (rrp £399)
- · Digitisers, Genlocks + Ram Cards available



# PUTING

ower House DIRECT!







# VIDEON NEW! £249

Videon is a state-of-the-art PAL video digitiser for all models of Amiga computer. Videon digitises directly from any still PAL source in any of the Amiga's screen modes including high res and HAM. Videon is complete and requires no filter

wheels or similar devices. Extensive image processing facilities and the high quality of

digitisation makes Videon the

natural choice for professional or amateur.

DESCRIPTION	70	CHRISTMAN TWO DOES NO.
교육교	*	DISK SPACES DECISES COURT TIME 30 FE TIME
記書品	鰯	
100000		
報告談	200	SH THE DATE OF SH
CON ROS	100	
X 540	100	Order Order
10.55		HOTLINE

Manx Debugger

UTILITIES Arovy

BAD

Power Windows 2.5

Amiga Music System £149

0800 581 742

€49

€48

639

£35

# SOFTWARE & BOOKS

Power are the specialists in serious software & books for the Amiga enthusiast at prices that are rarely matched by our competitors. Large stocks of the latest versions and an extensive showroom display avoids

# **RED HOT PRICES**

### **ART & GRAPHICS**

Typically 30-40% off rrp

269
£29
£35
€59
£48
£49
299
£39
£69
£28
€49
£79
£39
£49
€49
£48
269
£35
£169
€69
299
£99
£149

Sculpt 4D	£329
Turbo Silver	992
Video Magic	279
Video Page	992
XCAD Designer	£79
XCAD Pro	£325

Word Perfect

LANGUAGES ETC

D н

WORD DROCESSING		BBC Emulator	£39
WORD PROCESSING,		CLImate	£20
DTP & BUSINESS		Dos 2 Dos	£29
Digicalc	£29	Fine Print	£39
Excellence	£129	Quarterback	£34
Home Accounts	£20	RubyCom	€69
Kind Words	£35	Transformer	€29
Maxiplan +	99	WB 1.3	£15
Maxiplan 500	€59		
Pagestream	£120	MUSIC	
Pro Draw	£100	Midi Interface	£25
Pro Draw Clip art	£39	C64 Music Keyboard	
Pro Page 1.2	£169	Interface	€49
Pro page Templates	£39	MM5000 Keyboard	£79
Pro text	£63	Dr T's Drums	£25
Superbase 2	£62	Dr T's Midi Studio	€49
Superbase Pro	2160	KCS level 2	£229
Superplan	£62	Music X	£189
The Works Platinum	£149	Pro Sound Cold	050

£164

evpac lisoft Basic	£38 £55	Sonix Sound Trax 1 £25 Sonix Sound Trax 2 £25
attice C v5	£160	A full range of Amiga books is also
attice C++	£250	available from stock - ask our tele-
fanx C Dev	£163	sales assistants for details

se, the direct sales arm of Po st. Highly competitive e and the backing of a £2M+ 5 year e-shopping at Power. Large stocks, ity reception and "if it don't work we ou a new one" are a few more!



eet, Bedford MK41 7RW 00 581 742 Free Call les & Orders 34 273000 (5 lines) om only) 0234 267237

Order by Mail reco	eive bonus g Posted orders	
Name		
Address		
Address		
Postcode		
rosicode		
Telephone		
	_	
System owned		
credit card no		

I would like to order

1

1 i expiry date

i signature

I

1

Make cheques payable to Power Computing Ltd I enclose a cheque / PO for

Please send me the Power House Catalogue



# M.A.S.T.

# TECHNICAL EXCELLENCE

COMPACT LOW POWER AMIGA COMPATIBLE PERIPHERALS ENGINEERED TO WORK TOGETHER FROM THE CREATIVE PEOPLE AT MEMORY AND STORAGE TECHNOLOGY.

### THE ULTIMATE EXTERNAL FLOPPY DRIVES

UNIDRIVE \* £79.95



- Super Slim Line Very Low Power No Clicking
- May be Switch Disabled

Plugpak only £10.00

- First Year Limited Warranty · Each drive fully tested prior to
- despatch Upgrade Policy - Buy a UniDrive and have it Factory Upgraded to

WE TV (TwinDrive has two switches) \$149.95



- Quality Fujitsu Mechanism Removable Cable or optionally available Hinned Dust Cover
  - Plus £5 Carriage VAT included

This internal 5 (2K Cambines) and the ASO (1 By using 1 Meg DIVMA, Microsings is only half his size of the ASO (1 By using 1 Meg DIVMA, Microsings is only half his size of the ASO (1 By using 1 Meg DIVMA, Microsings is only half his size of the ASO (1 By Land 1 By L

a TwinDrive

### MINIMEGS™ 500/1000 TWO MEG RAM



- Auto Configure Low Power • 1 Meg DRAMS RAM Tachometer
- Auto Configure LED
- Very small size 3" x 5.25" x .625" Zero Wait States
- Compatible with A501
- PHOTO OF ASON VERSION Populated to 512K ... 1 Meg......£279.95 Factory Upgrade per 512K ....£99.95 £479.95 Plus £5 Carriage

# \* \* NEW \* \* THE MAC EMULATION PACK \* \* NEW \* \*

MAST announce the 'Amiga-a-Tosh' Macintosh compatible 3.5' Floppy Drive for use with Macintosh Emulators on the Amiga. Run Macintosh system disks directly with AMAX. 'Amiga-a-Tosh' even features software disk ejection! Complete with special cable and 1 Year Warranty for ONLY £199.95 inc

the AMAY Manistach Emplotes sociable with or the 198K BOMs The basic AMAX is £134.95 inc. and the ROM set (2 128K ROMs) are £199.95 per pair inc

The complete AMAX/Amiga-a-Tosh/ROM package is available at the very Special price of £499.95 Inc.

Limited Quantities of all of these items are available ex stock. Please add £5 for each order to cover P&P.

# \* \* NEW ... NEW ... BOING MOUSE ... NEW ... NEW \* \*

At last an alternative to the existing Mouse! The Boing Optical Mouse is the highest quality professional mouse you can use with your Arriags. There are no moving parts and the 200 do the professional professional and the professional and the professional and the professional and sectionals. There is a third button for ADDS existence and AWM dodes and the pask includes a large mouse pad with non-site hashing. Compatible with ALL Arriags computers. Special Introductory proc ONILY 172-35 line. Highly Recommended for all ARDseagn Packages.

### \* \* NEW....NEW....GENLOCK SYSTEM....NEW \* \* THE AEGIS/RENDALE 'GENLOCK' SYSTEM FOR A500/1000/2000

The 8802 Professional Geniock with Aegis Video Titler (RRP £109.95) FREE! The completer Video Titling, Promotional Videos and much, much more for just £275.00 inc VAT 8 PP

SPECIAL NOTE: All of the above are now regular stock items. Since M.A.S.T. (UK) Ltd., started trading, over 90% of all orders received were despatched within 24 hours. It is still, however, advis-

able to telephone for information on availability and to allow up to 21 days for delivery. Please note that cheques have to be cleared prior to despatch of goods. Access, Visa and overseas orders welcome.. BFPO customers please deduct 12% from all prices

MEMORY AND STORAGE TECHNOLOGY, INC. M.A.S.T. U.S.A. 3881-E BENATAR WAY, M.A.S.T. (UK) LTD UNIT 1 DIPPEN, BRODICK, ARRAN, SCOTLAND, KA27 8RN M.A.S.T. AUSTRALIA 19-21 BUCKLAND ST BROADWAY NSW 2007 (916) 342 6278 (02) 281 7411 FAX: (02) 281 7414 (077 082) 234

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

# G.T.S.

# SOFTWARE EXCELLENCE

### \*\* ANNOUNCING..."GTS CLUB' 89"...ANNOUNCING \* \* THE PUBLIC DOMAIN CLUB

FOR AMIGA ENTHUSIASTS

Since the early days of the Amiga George Thompson Services have made available to Amiga Owners all over the world the latest P.D disks from the U.S.A and Europe. Couriers deliver material on a weekly basis to our offices where they are first carefully checked for virus, catalogued and then released to the duplicating rooms for labelling and copying onto top quality Sony DS/DD disks

As a member of this very Special Club you will not only benefit from lower PD software prices but also discounts on M.A.S.T and other hardware peripherals. Send only £15.00 annual subscription now and you'll receive by return:

★ Our Double Library Disk Pack detailing the contents of 100's of PD disks

- \* The latest issue of JUMPDISK the best selling magazine on a disk in the world. \* A new and unique two disk animation from the U.S.A titled "Wavesail".
- + 95.00 PD Discount Voucher
- \* Regular PD News Sheets \* The opportunity to purchase M.A.S.T and other hardware at very special prices. For example
- ★ Minimegs 512K (A1000/A500) External Memory Expansion Units at £159.95 inc. Vat + £5 post/handling. SAVING £201 \* MAC Emulation Pack, including "Amiga-a-Tosh" drive, AMAX and 128K ROM's,
- only £449.95 inc Vat. SAVING £50 ★ Micromegs, the original and reliable internal 512K memory expansion unit at only

£94.95 inc Vat + £5 P&P. ★ The DOUBLE - Unidrive + Micromegs for only £169.95 inc Vat + £5 P&P

SAVING OVER £10! To become a member of "GTS CLUB" 89" just send a Cheque (with Bank Card details on reverse) P.O or place a credit card order using Access/Visa and we will despatch your very Special Pack to you immediately!

We are George Thompson Services, Unit 1, Dippen, Brodick, Arran, Scotland KA27 8RN. Telephone (077 082) 212 - '89 Club only.

### \* \* JUMPDISK \* \* JUMPDISK \* \* JUMPDISK \* \* JUMPDISK \* \* SPECIAL OFFER FOR THE OCTOBER ISSUE ONLY!

Have you experienced JUMPDISK, The worlds best selling magazine on a disk No! Then as a taster we will send this issue to you for the very special price of £6.99 Inc. We believe it's one of our best. Programs include DISKOPTI - Access disks faster with this optimizer. EUROPE - Learn about the countries, cities and flags of Europe the easy way. JPCLOCK -The ultimate clock for the Amiga?

COLORPAD - An effective but simple Colouring Book for young children. ACCORDION - Play the demo of this original Solitaire card game. FROG/PUSH - Arcade favourites. PLUS Music, Puzzles and Articles that include News Features, Tips and Tutorials.

### \* \* DOSLAB \* \* £14.95\* \*

Learn how to use the CLI and Amiga DOS the easy way. No heavy manuals, just let the Amiga do the teaching with this interactive two disk set.

# \* \* HOME BUSINESS PACK\* \* £19.99 \* \*

Our best seling 8 disk pack includes a Word Processor, Spell Checker, Database, Spreadsheet, Appointment Scheduler, Home and Business Accounts and more

### \* \* THE MEGA GAMES PACK VOL II\* \* £19.99 \* \* Now holding the number one position in the Public Domain Top Ten. This 7 disk pack includes Adventure, Arcade, Logic, Card, Puzzle,

Board and Role Playing Games, Even a Flight Simulator Please note that these games are all recent releases

### \* \* INTRODUCING PUBLIC DOMAIN PART II \* \* £19.99 \* \* This 9 pack disk serves as the perfect introduction to Amiga PD.

We have carefully selected one of the most popular disks from the Fish, Amicus, SACC, FAUG, TBAG, AMUSE and TBYB Libraries and added the latest version of our two disk PD library pack. There are many hundreds of quality PD disks in our collection and this new pack will give you the opportunity to see why everyone is talking about PD

### \* \* NEW...NEW...£8.99...DESIGN FACTORY...£8.99...NEW... \* \* This 3 disk set includes the finest PD programs we could find for design work.

If it's CAD, FRACTALS or MANDELBROT you are interested in this pack is just what you are looking for, Highly Recommended.

# \* \* NEW...NEW...£39.95...EXPRESS COPY...£39.99...NEW...NEW \* \*

Acclaimed by the critics as possibly the best Hard Disk Backup Program available Features: Speeds of up to 1MB per minute. Backup Disks have the same directory structure and file attributes of the original files and can be used normally, up to four disks may be pre-loaded at a time, multitasking...the list goes on

### WE ARE GEORGE THOMPSON SERVICES. Our Address is: DIPPEN, BRODICK, ARRAN, SCOTLAND. KA27 8RN. (077082) 234.

Please send a cheque (with your Bank Card No Expiry Date on reverse). A P.O. or just telephone your Access or Visa Card details to us before 1pm. and we will despatch your order immediately.

The complete guide to PD starts here!

# COMMS UTILITIES 17Bit Disk 444

This month's Coverdisk has an extra special treat for all you comms kids out there, in the form of the excellent PD communications program, Access! Our Coverdisk comms program was taken from Seventeen Bit's excellent comms utilities disk (thanks 17Bit!) which as well as Access!. also includes the even more powerful JRComm and Compunet software.

JRComm is a complete VT100 terminal emulator that provides almost 100% emulation of the IBM ANSI terminal standard. The program supports just about every communications protocol under the sun including XMODEM, YMO- freaks can get a

DEM. ZMODEM. peek at Kermit and ASCII. For the wonthose of you with ders of super-dooper high-IRM ANSI res monitors.

JRComm will allow you to run in high resolution overscan with a 132-column screen.

The other major comms package on the disk is the Compunet software written by those clever chaps at Ariadne Software in London. The software was written specifically for use with the Compunet system and is a very posh multi-colour, multi-window affair. The software is shareware and you are therefore charged

Ever pay through the nose for the latest games and serious software only to find that you've wasted your hard-earned cash? You need PD matey! JASON HOLBORN takes another trip in the world of free software.



£20 for it as soon as you decide to join Cnet. Of course, if you don't join Cnet, then you don't have to pay.

# **ICONS**

Fish 213

Last month's Coverdisk icon editor, Icon Meister, certainly turned out to be rather popular with all you Workbench hackers. From the various letters and phone calls we received, the ability to create eight-colour icons seemed to be the most favoured part of the program but there was only one problem: unless you had a program such as Hi-Tension's IconPaint, you couldn't display your eight-colour icons in all their glory.

■ Now look a lot better than the usual four-colour Workbench!

Well, the search doesn't that was long and hard (fnarr fnarr!) but we eventually came up tops with a PD program to do the job

very nicely. The program itself is called Bitplanes and is included with many demonstration icons which collectively live on Fish Disk 213 under the name 'lcons'. The Bitplanes program must be copied onto your boot disk and inserted into your StartUp-Sequence just before the line 'LoadWB'. All you have to do is to tell it how many bitplanes you wish to allocate to the Workbench screen and it will do the rest (you'll need three for an eightcolour Workbench).

# SOZOBON C

Fish 193

C compilers are terrible expensive things. Version 5 of Lattice's offering could set you back as much as £250 for the basic system. With these high prices the hard-up C programmers are in for a hard time.



Luckily, there are programming language authors out there that are willing to allow their wares to be sold for the price of a disk. Sozobon C is a complete C development system, with a Unix-like front end, that is available on several machines including the ST and PC. The Amiga version produces source code that is compatible with the PD assembler, A68K (available on Fish Disk 186)

If you are just starting out in C programming and you haven't yet decided whether or not the C programming language is for you, then a PD C compiler is you're best bet. With Sozobon C. if you decide that C isn't your cup of tea, then you've only lost £3: if you buy Lattice C and then tire of it, then you've lost £200 upwards.

# MACKIE

Fish 161

Hotkey macro programs are to be found in abundance within the public domain, but none are as versatile as Mackie. Mackie is a neat little utility that adds a system hotkey to your Amiga which can be defined to carry out any number of functions when used in conjunction with other keys.

To set Mackie up, you have to create a ',mackierc' file that sits in the 'S' directory of your boot disk. This file contains all the definitions for the various hotkeys that come into action when they are used in conjunction with the 'Help' key.

Defining your hotkeys is very simple. For example, if you wanted a new CLI window to appear when you pressed the space bar with the Help key depressed, you would enter; space CLI "NewCLI". If a CLI window is already open, this will be 'popped to front': otherwise Mackie will create a new one. This is particularly useful for those of you who are programmers, who will no doubt have experienced the frustration of losing files in the RAM disk when your program manages to lock up the machine

# CHESS

Fish 205

The PD libraries aren't just full of programmers' toolkits, linkable file requesters and text formatters: look hard and you'll find a host of quality games software just screaming out to be played. Even popular commercial releases such as Tetris and Boulderdash (sorry, Rockford) have spawned PD impersonators.

Serious gamesters can get stuck into an absorbing game of that classic board game of ye olde English Chess. What can I say about Chess that you don't already know: suffice to say that the game beat me hands down every time (which really isn't that hard, I suppose!).



Another use is that if you have a collection of programs which you use quite regularly from Workbench, you could set Mackie up so that with just a single key combination, any program would be instantly loaded and run. Now that's useful!

As well as being a good hotkey macro utility. Mackie also includes a definable screen blank with a difference. Instead of the usual black screen, after a userdefinable amount of time Mackie will blank the screen and then start a fun little line-drawing demo similar to the 'Lines' demo on your

## SETPREFS Fish 157

Workbench disk

Finding PD programs for inclusion within PD Update is a difficult business. Every time a program crops up, we have to ask ourselves Would our readers really find this useful?" Well, judging by the amount of letters we've received asking for such a program, we're sure that you'll find that SetPrefs is just what you've been looking for.

SetPrefs is a useful little



■ A library of sample Preference settings is included in SetPrefs.

Workbench utility that allows you to build up a library of Preferences settings which you can switch between instantly without having to reboot your machine. The program affects all Preferences settings, not just the Workbench screen

colours, so you can instantly change system attributes such as the printer configuration by just double-clicking on an icon.

## FIXHUNK Fish 197

There certainly are some sloppilywritten programs floating about. Anyone who owns an Amiga with a memory expansion will know how annoying it is to use a program that hasn't been written to work within an expanded memory environment. The symptoms are easy to spot: a blank or corrupted screen display, white noise where a sound sample should be playing or even just a Guru. Amiga object files are made

up of distinct 'hunks' which contain specific types of data. Hunk types include DATA, BSS, CODE and DEBUG. When using a program that accesses the custom chips, all DATA hunks to be used by the custom chips must be forced into the first 512K of memory (chip memory) if the program is to function correctly. Many Amiga programmers will be familiar with the popular Atom utility that was included in the Amiga developer packs, but unfortunately this isn't PD and so FixHunk was written. FixHunk modifies an Amiga object file so that all DATA and BSS hunks are loaded into Chip memory and CODE hunks are loaded into fast memory (if it is available).

## PD TEN DEMOS GTS Title

- 1 Mega Games Pack 2. Disk 6 Air Warrior
- Star Trek
- 3 Fish 196
- 4 TBAG 31
- TBAG 16
- 6 3D Extravaganza
- 7 Fish 175
- 8 TBAG 28
- 9 TBYB Dungeon Master Demo
- **10TBAG 29**

# **Public Domain Software** for the Amiga

# from £3 per disk all inclusive \* Over 500 disks!

\* Membership not necessary \* Fast Service

# We have one of the largest collections of PD software for the Amiga in the UK. We currently stock:

# O FISH 1- 220

- AMICUS 1-26 SLIPPED DISK 1-40 FAUG HOTMIX 1-75 PANORAMA 1-71
- O AUGE 1-25 O T-BAG 1-31

# All the above are £3 each + 1 FREE when you order 10 2 catalogue disks available at £5 which give details of the above

We can supply the <u>Top Ten PD</u> and the <u>Top Ten Demos</u> as featured in Amiga Format at the SPECIAL PRICE of £2.50 each!

\* JOIN THE CLUB! interested in joining our user club? Write or phone for details \*

# Our own special selection £4.00 each

- APDL #5 CLI HELP Confused by CLI? This one's for you APDL #7 LANGUAGES Lisp, Protog, Loop, Forth APDL #8 AMIGA DISK DOCTOR
- Life saving programs! APDL #14 BEST ARCADE GAMES APDL #15 BEST BOARD GAMES
- APDL #15 BEST BOARD CAMES lackgammon, Othello, Yahtzee etc. APDL #17 BUSINESS COLLECTION dtor, Spreadsheet & Database APDL #41 DATABASES
- PDL #41 DATABASES
  eep track of your data
  PDL #42 ADVENTURES Vol 2
  assfer. A graphic adventure & several
  ixt adventure & several
  PDL #44 WORPLER ASSEMBLER AND LINKER
  PDL #44 WORPLER ASSEMBLER AND LINKER
  FOR PROJECTION & Spelithecker
  PDL #45 PUZZLE & STRATEGY GAMES
  PDL #48 MAGNIFICENT FORCE II

- Superb eye-popping demos with great APDL #57 JUNGLE COMMAND Musical Invasion 3 IPDL #58 CHET SOLACE SHAREWARE EXTRAVAGANZA. Some of the best shareware programmes on easy-to-use
- L. Startrek (1 MB) Superb with 1 Mb. 3 discs £8.00 Write or phone for a FREE list.

# THE AMIGA PD LIBRARY

Dept. AF3, 140 Rushdale Road, Sheffield, S8 9QE PD Hotline 0742-588429 (9 am-9 pm)

# AMIGA PUBLIC DOMAIN BLITSOFT

the growing popularity of the AMMCA the public domain scene has expanded rapidly along the latest the control of the control o

BLITSOFT

# Matrix Software Hire

The cheapest way to play them all.

Top games titles for Amiga, Commodore, Spectrum and Amstrad.

Please state system

S.A.E. Details from:

Matrix Leisure Club, Dept AM. 271 Stansted Road, Bishops Stortford Herts CM23 2BT

# S DAY DIN N DI DIN SOFTWARE

LEADING SUPPLIERS OF QUALITY AMIGA PD SOFTWARE

# AMAZING PD SOFTWARE PACKS !!

# QUICKSTART III PACK...

Three discs packed with utilities, games, music and demos plus issue six of our very popular disc magazine to act as the ideal introduction to the PD scene, plus the bonus of FREE membership to 17Bit and access to our massive library of topnotch PD software. Quickstart III is just £5!!

# THE AMIGA FORMAT PACK...

This special PD pack comprises of five discs, the first is the Utility disc featured in the Quickstart pack, the second is a special art-disc featuring some superb ray-traced images, an excellent music disc, a disc of Star-Trek animations plus our disc-magazine and membership for just £10!!

# DISC-MAGAZINES...

17Bit produce what is regarded as the best value-for-money disc-magazines available, and at just £1.50 per issue you can see why! Subscribe to 8 issues now and get free membership for just £10, truly remarkable value for money! Watch out for NEWSFLASH! the new European disc-magazine coming very shortly to the UK via 17Bit of course!

# NOTES:

All PD packs are guaranteed free of any viruses (killer included with the packs) and will work on 1.2/1.3 Amigas in 512K. A full catalogue of ALL the 17bit PD discs is available on request for just £2 (On disc). The range of PD discs is open to members only.

You can order by post with a cheque/postal order/credit card or over the phone with Access/Visa (24 hours - Answerphone after 5.30)

# Seventeen Bit Software

**PO BOX 97** 

1st Floor 2-8 Market Street. Wakefield WF1 1XX Telephone 0924 366982

(24 Hours)





# **DEMOS CORNER**

The demos scene has been rather uneventful this month, probably as a result of the summer sun causing programmers to desert their machines in search of the ultimate tan. However, we still managed to pick a couple of beauties among the endless list of scrolly, sound-tracked demos.

# MAHONEY & KAKTUS MUSIC DISK 2

Disk 426

Music disks containing compilations of music are very popular with demo collectors: one look at our exclusive Demos Chart will confirm that! The Mahoney and Kaktus music disk is a szeable collection of music composed by those affluent continental composers of the same name.

Both Mahoney and Kaktus are fans of such greats as Jean Michel Jarre, Depeche Mode (brillanti) and Jan Hammer which is more than evident in many of their compositions. Once you've grown bored of listening to the music, you can sit back and admire the impressive visuals that accompany every song; every trick in the programmer's book is employed to provide some astounding effects.

# INTROS

Disk 422

Like them or hate them, those scrolly demos that exist in such abundance on the Amiga are still very much alive and kicking. If you've never seen an intro program, they usually consist of some scrolly text with flashly graphics wizzing about the screen.

tresome. It is therefore always nee to find a disk of intros that ofters something new, be it if nice new effect that has never been used before or a completely original music score that doesn't use a single Sound Tracker preset. Intros, Disk 422, features several such demos that, in one way or another, offers demo watchers something new. The



■ This marvellous Porsche is, like the ones below, from Fish 196.

to the beat of another 'soundtracked' music score.

It's easy to be impressed by the first couple of intro programs, but once you start getting into double figures, the same old scrolling effects can soon grow

best of all the intros on the disk is a demo by Depeche which has a very novel scrolling text

very novel scrolling text mechanism, adding a new meaning to the expression 'rolling credits'. Check it out and you'll see what I mean!

# HAM PICS

Fish 196

What's this? A demo that doesn't originate from 17Bit Software? Yes, it's true, the Fish disks aren't just good for serious programs: they also contain some very good demos.

We've all seen those infamous Hid hold and modify) picture disks, but these HAM pictures are beyond belief. If you've ever wanted to find the definitive collection of digitised pictures to impress your Granne Gerbie when she pops round, then look no further than Fish Disk 196; they really are of photographic quality.

The original pictures were scanned at a resolution of 4096 by 2800, 36 bits per pixel on an incredibly expensive Eikonix 1435 slide scanner and then cropped, gamma corrected (?), scaled and then converted to IFF compatible files, Digi-Yew eat your heart out!

# 17Rit Diek Nos throughout

1 Supreme Sounds 1

- 1 Supreme Sounds 1 2 Mahoney and Kaktus Music Disk 2
- 3 Quadlite 64 Demo
- 4 Intros 19
- 5 Titan Trax
- 6 Intros 20
- 8 Sonix 18
- 9 Supreme Sounds 2 1017Bit Art Vol. 1





# **PURPLE PD PUBLIC DOMAIN** & SHAREWARE SOFTWARE

### MEGAPACKS

\* \* Mega Packs 1 to 10 consist of 3 disks for £7.50! fully inclusive. \* \*

• Moga Pack. 1: Home Business Pack 1, FBM the relational database. UEdit the falliant word processor, seed chackers. Vis.Cale and VG spreadness. 4 Maps Pack 2, Communications 18st. Assers V13, 38 are 18st Few V20 App lens. Exem Term Loaded with features. X modern. WXmodern. autodal. 30-000 baset rate. micros and many more Also a last of Biblis and/ord the world legist flack. 3 Graphics Pack 1, CAID Design, Ray Tracer generator, July Maules of basers groupman. Angle McAO, Goald of color for format Convention.

Billiho comerg program
ind other utilities. Animation Pack 1. sturming graphic animation demo
if the process Consider, P.15. Rocker, Closer, Lockon, Marryn,
Singstess, T.IRAG 30. Elsab have
interested by the pack 1. packed full of the best Arriga

i Riga Pack 5. Picture Pack 1, packed full of the best Arriga

pitures.

• Maga Pack 6: Demo Pack 1, Thames TV demo, The Juggler, loads of tourning Boing demos. Jungle Command.

• Mega Pack 7: Amiga Basic Pack 1, games, usites, demos, loads of

and many more.

• Mega Pack 9: Picture Pack 2, packed full of the best Amiga including

## Mega Packs 11 to 20 consist of 5 disks for £12.50 fully inclusive

Maja Packs 1 to 20 consist of 5 disks for 12,2 60 styll ynoticities. High packs 11 South Male Packs. Forbits of the Polipher to Ages Soors. "Beign Packs 15 disks full of mous soors." "Beign Packs 15 disks full of mous soors." "Beign Packs 15 disks full of mous soors." "Beign Packs 15 disks full of the Packs 15 disks full of the Packs 10 disks full of the Packs 15 d

Blage Reck 15 Chem Picus 6. Needs two date drives file level 1s. Populs of the property of

Display 1 and 19: Usity Pack 2, Ioon utilities, Mouse pointers, printer and firsts, Sowert Mage to PrintER, PopCLI and loads of brilliant utilities. See the pack 20: Picture Pack 3, Needs two disk drives, 5 disks of bridding and low resolution pictures. All auto loading.

# APPLICATION DISKS

6.144. Analyticatic V22.3D is a large & powerful spreadsheet programs or 600K of 14M and one floppy.
6.145. PMM V5.0 is a Relational information Manager, a fully relational http://dx.discountings.com/dx.discountings/fired data storage.
of HMI no in a variety of micro systems 60th entail and large, and compatible distalations, includes a busin HILP distalation and a

### UTILITY DISKS



VIRUSX2.3 "Virus X V2.3 the Virus Checker destroyer firm X V3.2. The virus killer that sits in memory and checks disks as they

rentered.

AMCUS 22 - Printer Driver Generator V2.3, Show Print II.3 IFF screen

ster. 
3-4780 HS7. Xicon V2.01 allows you to call up scripts containing CLI ammade from an icon. 60-effo taggles 60-80 column text. Amid-form V1 seeks a phonologis from useable by Amid-form Boothback is a disk boothback of the cology language. ECM at a CPM emulator. Key the seeks a first a seek boothback of the cology language. ECM at a CPM emulator. Key the seeks all the seeks are seeks seeks seeks to be the seeks and the seeks and

printer or compatible. 
• FFBM 146 Blanker2 is a screen blanking program that turns the screen black after 90 seconds of nactivity. DimeMacros is a a set of macros that unlikes templane to turn DME, the saty editor, into a language sensitive edi for C. Pascal, Modula 2.6 Fortran, MemoPad V1.1 is an instant based me.

Ribbon is noticed over the control of the control o

FAUG 62 - Access 12 - Acc

FAUG50 'Dir Util version VI the disk manager on disk FAUG50'

FAUG 50 - De tibl VIII the disk manager, Rpd Back VII 0 rolls back set from his rolled of the top of the screen. Short Cut allows you to define text to settled by the Nort LLL commands are singlet to by the settled by the Nort LLL commands are singlet to by the FAUG 37 - Star Chart VII 0 600 stars, galaxies etc. AM Cist the disk catalogue. Manager dischare view of your screen set. AM Cist the disk catalogue. Manager dischare view of your star of the settled • FAUG 37 - Data Yillow set you ske disk contents were: SELECT allows you to select in your Starting Dequerce from a number of a circuit, you stock cold.

PANE 18D 2001\* 43 a sew good or compressor. Con Mar vis Ste provises like a door; a door way good or compressor. Con Mar vis Ste in Type Type I revisite. The CLUT II.

If you have good or the control of the Clut II.

If you have good or the control of the Clut II.

If you have good or the control of the Clut II.

If you have good or the control of the Clut II.

If you have good or the Clut II.

If you have go

### DEMO DISKS

FFISH 117 - AMUC a really good horizontal scrolling demo that is a 2400x200 pixel 32 colour IEF picture composed of digiview snapshots of members of the Amiga Users Of Calgary which are superimposed on the

Calgary skyline.

• FFISH 116 - Kahnankas is an Archimedes cradle, Rocker the ri and F-15 a were frame bomber.

FAMD 61A and 61B - New Tek demo a 2 disk set that requires 1Mb RAM.

SOFT 127 - Disk full of Parisk Nagel pictures. Very Good.

SOFT 187 - Disk full of Parisk Nagel pictures. Very Good.

# GAME DISKS

a modern.

FFISH 63 - LARN the adventure V12.08 by the Software distillery. A far

and 3D Breakout • SD 21 - Monopoly

# GRAPHICS DISKS

FAUG 42 - DBW Render a very good Ray Tracing utility.
 SOFT 123 - Arriga MCAD V1 2 2 excellent Computer Aided Design.

postalogy 

— SOPT 922 - Diss Full of graphic utilities: Clip it! clip any part of the so 
and save to disk, Filter Plog mampulate problems with enhancers, edge 
elefention, colors and size shafters, plus loads of excellent packages 

— SOPT 913 - Mandettrot Explorer: Excellent the features mandetered 

— SOPT 913 - Mandettrot Explorer: Excellent the fleatures mandetered 

— SOPT 913 - Mandettrot Explorer: Excellent the fleatures mandetered 

— SOPT 913 - Mandettrot Explorer: Excellent the fleatures mandetered 

— SOPT 913 - Mandettrot Explorer: Excellent the fleatures mandetered 

— SOPT 913 - Mandettrot Explorer: Excellent the fleatures mandetered 

— SOPT 913 - Mandettrot Explorer: Excellent the fleatures mandetered 

— SOPT 913 - Mandettrot Explorer: Excellent the fleatures mandetered 

— SOPT 913 - Mandettrot Explorer: Excellent the fleatures mandetered 

— SOPT 913 - Mandettrot Explorer: Excellent the fleatures mandetered 

— SOPT 913 - Mandettrot Explorer: Excellent the fleatures mandetered 

— SOPT 913 - Mandettrot Explorer: Excellent the fleatures mandetered 

— SOPT 913 - Mandettrot Explorer: Excellent the fleatures mandetered 

— SOPT 913 - Mandettrot Explorer: Excellent the fleatures mandetered 

— SOPT 913 - Mandettrot Explorer: Mandettrot 

— SOPT 913 - Mandettrot Explorer: Excellent the fleatures mandetered 

— SOPT 913 - Mandettrot 

— SOPT 913

designer.

◆ APDC 13 - VDraw V1.19 brilliant painting program. Ray Tracer Gene MCAO V1.2 an object orientated drawing package. IFF to pieces jigsaw program. ROT 3D drawing program.

# LANGUAGE DISKS

FFIBIT 180 - Stowy Brown FFICACIO 275 J. The disk contains the disk of the contains the

# MUSIC DISKS

# WORD PROCESSING DISKS

FFISH 135 - TeXF a selection of 78 tonts + conversion over

PURPLE PD, 1 BARTHOLOMEW ROAD,

BISHOP'S STORTFORD, HERTFORDSHIRE, CM23 3TP. TELEPHONE 0279 757692.





# HARI

# POWERPLAY PACK 1

ALL OUR AMIGA A500 PACKS CONTAIN MACHINES WITH THE FOLLOWING STANDARD FEATURES

SEE WHAT WE MEAN ABOUT COMPLETE

SUPER PIC

ONLY £549.00

MINIGEN

computer graphics to your own a easily Connect to your Amiga's port and domestic video prent to mix graphics and

VIE MAGIC AT ONLY

£113.85

GRAPHICS HARDWARE

- Multi Tasking
- Mouse

DIGIVIEW GOLD

igitise static colour images in IFF irmat at all resolutions from 2 to 096 colours up to 640 x 400 inals (nequires B 6 W, or colour inth B 6 W mode video camers, i digitise in colour)

ONLY £139.95

PANASONIC

VIDEO CAMERA

ONLY £249.95

CALL FOR DETAILS AND PRICES OF ILLUMINATED COPY STAND FOR VIDEO CAMERA DIGITISING OF STILLS E.G. PHOTOGRAPHS, GRAPHICS ETC.

- S12K Ram
   Kickstart 1.3
   1 Meg Disk Drive
   Vorkbench 1.3 System Disk
   Workbench 1.3 System Disk
  - All appropriate Connecting Cable THE COMPLETE START-UP PACK



SAVE EVEN MORE WITH



# POWERPLAY PACK 3

Take our NEW Powerplay Pack 2 and add a Commodore MPS 1230 printer for that COMPLETE AMIGA HOME ENTERTAINMENT SYSTEM To substitute the MPS 1230 for anot only...

# POWERPLAY PACK 4

Take our NEW Powerplay Pack 3 extensive business package THE WORKS - Integrated w.

To substitute the MPS 1230 for another printer in our range, simply deduct £139.96 £729 and add the price of the alternative chosen

WE MEAN BUSINESS AT JUST

# POWERPLAY PACK

If you thought Powerplay Paci was good value just look a our Powerplay Pack 2!

only

PACK 2 contains the super Powerplay Pack 1" plus a Philips CM 8833 Stereo High Resolution Colour Monitor (HIGHER SPEC. than 1084S) See those games - Hear those games WITH ADDED REALITY!

(N.B. Powerplay Pack 2 doesn't include a TV Modulat

# **ACCESSORIES**

TAILORED AMIGA ONLY £4.9 **DUST COVERS** 

(Also available for mo JOYSTICKS . ZIPSTICK SUPERPRO

Professional quality with that "Perfect Feel autofes, 12 month warrants. MICROBLASTER

COMMODORE A501 RAMPACK Genuine CBM 512k EXTRA RAM with real time dock, does NOT invalidate Amiga warranty! CBM 3.5" DS/DD **BLANK DISKS** 

**BULK PACKED DISKS** Ten 3.5" DS/DO Disks

OR with library case

£15.9

£12.9

£139.9

£14.9

£9.9

£10.9

# HARWOOD'S - THE NAME YOU CAN TRUST

# ORDERING MADE EASY ORDER BY PHONE-Simply call our 24hr Hotlin using your Access/Visa or Lombard Charge Card.

ORDER BY POST-Make cheques, bankers-bi ociety drafts or postal orders payable to GORDON IARWOOD COMPUTERS (N.B. Personal or exiness cheques require 7 days clearance from

PAY AT YOUR BANK-If you wish to pay by Credit Giro Transfer at your own bank, phone for details Geo Transper at your own panis, priorie for details FREE POSTAL DELIVERY goods in UK Mainland (6-7 day delivery) OR COURIER SERVICE - Add £5 per major item next working day delivery UK Mainland (Orders normally despatched on day of receipt of payment or cheque clearance

# COMPARE OUR SERVICE

After you've purchased from Harwoods we'll still be here to completely satisfy you should

12 MONTH WARRANTY - If goods prove t faulty within 30 days of purchase they will be replaced with A NEW UNIT. For the remainder of the Guarantee Period, all warranty repairs will be the Guarantee Period, all warrar made FREE OF CHARGE!

COLLECTION FACILITY-Any faulty computer or monitor will be collected from your home FREE OF CHARGE within this Guarantee Period!! FULL TESTING PROCEDURE-All or thoroughly tested prior to despatch

# CREDIT TERMS

Gordon Harwood Computers are licens and facilities to pay using our Budget Acco Scheme are offered on most items. APR 35.2% 12-36 month credit sale terms are available to mo adults, simply phone or write and we will send with details along with an application form. (Applicationare required in advance.)



Credit terms with or without a deposit of

# Portfolio



ON STAR PRINTERS !!! E179.95 for a minos LCTU, a remarkative E209.95 for the COLOUR version and the LC24-10 at a special low price of E249.95, you'll SAVE EVEN MORE!!!



led power for your Arniga A500, connects directly through sticar expansion bus. Ultra-reliable, built-in power supply nied to match your Amiga A500.

MEGA STORAGE £399

Also available 50 mb version des 1 vr. reelscement warranty FREE, notional 2

### OMMODORE A590 20Mb HARD ISK FOR AMIGA A500's Autoboot on Amina

(1.3 Kickstart only) Sockets for 2Mb RAM

OMA

**NEW LOW PRICE!** 

### ORTEX 40 MEGABYTE HARD DISK sw concept in disk storage NEW LOW PRICE Amiga A500/1000

£499 (others available) ARWOODS SUPERSLIM 3.5" DRIVE

Throughport On'Off isolator switch £74.95 MANA DISK DRIVES

CAX 354

**CAX 1000** 3.5" 2nd Drive 5.25" 2nd Drive £94.95 £129.95

SAVE DATA!

(Worth £10.95) (Worth £9.95) SAVE MONEY



All printers in our range are dot matrix and include the following features . . .

Standard centronics parallel port for direct connection to Amiga, PC's, ST, Archimedes etc. Tractor and friction paper feeds and FREE connector cables.

CITIZEN 1200 Full 2 year warranty
Very reliable low cost printer, interchangeable interfaces ible for RS232 or Serial type for CBM 64 etc. #149.95 COMMODORE MPS 1230

Manufactured by Olivetti, built in dual Centronics and 64 type serial interfaces. Connects to C64/128/16/+4 and

STAR LC10 MONO

Multiple font options from front panel, excellent paper handling. C84/128 version available. £179.95 £189-65 STAR LC10 COLOUR

Colour version of the popular LC10, allowing the effect of full colour on screen dumps (requires colour printer driving software). C84/128 version available. £209.95 £220-55 STAR LC 24 10

24 Pin version of the popular LC series with exceptional letter print quality. NEW LOW PRICE! £249.95

All our Star printers are full UK spec which are specifically manufactur by Star Japan for sale in the UK only, Please be aware that European sp Star printers are being woofficially imported against the wishes of Star Micronics UK. These printers do not carry a Star UK warranty, and will not be serviced by their should the need arise. These may be unreliable due to



# (Higher spec than 1084S)

Full 14" High Resolution Stereo Colour Monitor Twin Speakers

- High Contrast Tube Scart Euro-Connector fitted as standard
- Green screen switch for enhanced text mode
- RGB/AI, TTL, composite video and stereo audio Can also be used as TV with tuner or VCR
- Supplied with tilting stand
- Compatible with most micros With FREE lead for computer of Only from Harwoods.
- 1 year replacement warranty £229 for major faults **COMMODORE 1084**

Full 14" High Resolution Colour Monitor RGB/AJ, TTL, composite video and audio ing

 Scart Euro-connector fitted as standard
 Supplied with cables for A500, CGA PC C16-64-128

Can also be used as TV with tuner or VCR

VARD MAKER PLUS £39.95 Creates certificates and awards in a variety of styles, then prints out in black or colour.

ROFESSIONAL PAGE V1.2 £229.95

The oltimate in full colour Amiga DTP packages.

The peckage contains 'Kindwords V2', 'Pagesette V1.2', 'Artists Choice' and 'The Headline'. X-CAD DESIGNER £99.95

PUBLISHERS CHOICE CR9.95

Perfect start in computer-aided design. WE STOCK A VAST RANGE FOR A WHOLE RAN

OF SOFTWARE - TOO MUCH TO LIST HERE - AT COMPETITIVE PRICES IGE OF COMPUTERS AND GAMES CONSOLES, PHONE US NOW!!

# SOFTWARE

AEGIS VIDEO TITLER Use with Genlocks, e.g. Minigem etc

£14.95 Latest version of Amiga O.S.

24HR ORDER LINE - 0773 836781

# VISIT OUR SHOWROOM

dvertised products AND MORE is on sale. We hardware or software and a host of peripherals

REMEMBER WE ARE NOT JUST ANOTHER MAIL ORDER COMPANY
If prices are what YOU PAY, and there are
ID HIDDEN EXTRAS, VAT & Postage are included nd are correct at time of going to press. & O.E. Offers subject to availability and are

evertised prices

JICTN



DEPTA M F 69-71 HIGH STREET ALFRETON · DERBYS · DE5 7DP Tel: 0773 836781 Fax: 0773 831040



# ASHGOM

0530 411485

0530 411485



Original ASHCOM **RAM Expansion** ONLY £89.95

NOW AVAILABLE AT YOUR LOCAL COMPUTER STORE

# 512K RAM Expansion with Clock for Amiga 500

# Features:

- ★ RealTime Clock with High Capacity NICAD Battery Backup
- \* Memory Disable Switch
- \* Low Power
- Consumption.
- ★ Latest Technology 1MBit RAMS
- \* Low Chip Count for High Reliability
- ★ Direct Replacement for A501 Expansion



ONLY £99.95

All prices include VAT and Delivery. British made. Trade Enquiries Welcome

Only from ASHCOM, 10 The Green, Ashby-De-La-Zouch, Leicestershire, LE6 5JU Telephone: (0530) 411485

# MAKE YOUR

AMIGA.



naking money with your Amiga becomes incidental when you know how. Your icro is, if only you knew it, a gold mine. The size and make is irrelevant. Make the nitial effort NOW by starting your own

## HOME BASED BUSINESS

This may be the most important move you will ever make REMEMBER: You'll never get rich by digging someone else's "ditch". Anyone in the country, including YOU, can become very rich in a relatively short period of time just by doing a few basic things! It's more rewarding than playing games. The benefits are many and varied. Full or part time. For FREE details send S.A.E. to



# HOME BASED BUSINESS

31, PILTON PLACE (AF3) KING AND QUEEN STREET. WALWORTH, LONDON SE17 1DR

# £8.00 per 10 DS/DD disks

lifetime and disks that you can use time after time, trouble free.

Our disks specified here are unbranded and manufactured by Verbatim to the

highest degree, they are completely 100% error free, with a full lifetime guarantee which means full replacement or moneyback. We won't settle for anything less than high quality for our systems and neither should you, and as we now supply thousands nationally within both the

nal music and computer industries, it seems they won't settle for wthing less either anything less either. All disks are despatched sameday and include VAT, P&P and also come with user labels. If you are serious about your computer then you should be serious about

Quantity discounts are available also \$15.80 - 20, \$23.80 - 30, \$29.80 - 40, \$36.80 - 50, \$70.00 - 100 fou should consider us first before trying anyone else as we know you won't egget it. All trade, government and educational establishments welcome for the prices. Phone now or send your order with cheque/PO for immediate

joy of life arts, 45 elswick, skelmersdale, lancasbire wn8 6bx, telepbone: 0695 24732

# PUBLIC DOMAIN

who do you get yours from?

THE THE PROPERTY OF THE PROPER

There are many PD libraries around but do they offer you. Huge collection, thousands of programs on over 800 disks \*\*Came day service - 1st Class post - GUARANTEED

\*\*Knowledgable staff on hand (no 'phone after six and ask for fred')

\*\*Three years experience collecting and distributing PD &

Shareware to Amiga owning customers all over the world. TFREE 30 page catalogue, S.A.E (22p stamp) and state AMIGA clearly and we'll send one by return.

THERE 30 page catalogue, S.A.E. (22p stamp) and state AMICA clearly and we'll seed one by return.

UGA CKLECTEN
This outstanding collection of data is bring and state and the state of the

MANANANANANA

waterooving rians. For mi

Venture on a journey of exploration through the fantasy worlds of the latest adventure games with NICK WALKLAND AMIGA FORMAT 83

# **SHOGUN**

# Come to terms with the strange ways of a new culture, making your way to the very top in Infocom/Activision's feudal Japan

Ayyyeee!! Toranaga sama! Yes, time to put on your favourite silk kimono, warm up the saki, and boot up Infocom's Shogun.

First the novel, then the TV mini series', now the computer game. Hardened hack'n'slashers may be disappointed to learn that the game isn't a run-o'-the mil karate game and desan't even offer the chance to slaughter hundreds of Ninja (well, maybe one or two). It is the adventure game of the best-selling novel and it sticks pretty much to the original format.

in the year 1600, European rivaly is ferocious and based upon religious differences. The Catholic nations of Portugal and Spain have spread their spheres of political and religious influence to the Far East. Their bitter rivals, the 'heretic' English and Dutch traders, are trying to get in on the act. The arrival of the Dutch ship 'Erasmus' piloted by Englishman John Blackthorne brings an interesting situation to the tense balance in Janan where the ruling samural



You've got them dancing feet.



Ooh-err! Rampant about-to-b goings-on in the bathtub.



Mugshot of Rodrigues, the Portuguese pilot. And rather a



On shaky foundations: earthquakes causing severe problems.

lords are vying for individual power. Quite intriguing.

The basic aim of the game is simply to survive this strange culture, earn respect and become a high-ranking Samural. Etiquette is king: forget to bow and it's as good as 'bye-bye head!' Shogun hardly classes as a real adventure game in the traditional sense, but more like living parts of the life of John Blackthorne via the individual scenarios which make up the game. Producing Shogun as many mini scenarios does cut down the enjoyment somewhat because you're stifled in choice of action and movement. For a few scenarios, movement is limited to one and only one area in which you have to make the right decisions to get the full points. Very restrictive.

As for graphics, the pictures are adequate, not great. Some do seem to convey the image of Japan as they are intended to do in the exquisite style of Japanese court painters... There does seem, however, a pread difference in quality of the graphics: some would hardly be adequate on a C64. The graphics are few and far between though, which does ofter a more digestable break-up of the text so that if doesn't really distract.

that it doesn't really distract. The amount of puzzles is negligible, yet the toughness of the game is high due to the daylot day problems you face in this different culture. The game even seems to get easier as you progress further, which again is unusual. The man problem craeted by the mini scenarios is that they are linear; you must get past one to move on to the next, and can't by something.

else as you would do in a conven-

The game, though, has plenty of atmosphere and feel to it, and the textual descriptions are up to

the usual high Infocom standard. Anyone who has seen the TV programme or read the book will enjoy this different approach, although without any prior knowledge of the storyline you could have difficulty getting the gist of what's going on. The scenarios do juvoself on what's going on in the outside world. I still can't see the point in some characters who are mentioned and then seemingly forgotten about.

In my opinion, Shogun is the first real 'interactive fiction' work by Infocom. It is an enjoyable read and play, but it is more of an experience in style than a really good adventure. There aren't many games in which you get uring yames in which you get uring but for myself its a question of "Sayonrax AnjinSan" M.

BRAPHICS	
OUND	
NTELLECT	
ADDICTION	

# ZORK ZERO

# Infocom/Activision take a step back in time to the days before the Zork series.

There are Zorks and there are Zorks, but now there is the latest Zork which is the first Zork: Zork Zero. Confused? Well, I Certainly was. After the famous Zork thilogy came the innovative Beyond Zork, and now the game which acts as a prequel to the originals has arrived. Bigger it certainly is: but is it any better for that?

it any better for that:

Zork Zero begins with a prologue set over 90 years before the
start of the game proper. Megaboz
the Wizard kills the royal family and
sets a curse on the Great
Underground Empire. One of your
ancestors witnesses this and it's
thanks to him that you have the
vital piece of information which
gives you an advantage above all
the other glory land treasure) seekers. So off you tramp, collecting



Jester is being helpful for a change, but he still doesn't like losing to clowns like you.

the necessary objects, travelling the massive Underground empire, facing some angst-creating puzzles, playing games and facing the soon-to-be infamous Jester.

Remember the Wizard in Zork IP:
Well, the Jester must be his predecessor: he appears to give tricky puzzles and hinderances. Yet he also offers help and gives you useful items. Life is one big joke to







Road, Preston, PR1 2QF Sat. 9:30 am to 5:00 pr

# CAN'T AFFORD TO SHOP ELSEWHERE LOOK AT THESE

Amiga Upgrade Boards

512 K RAM Extension Boards

Available with or without calendar/clock. Plugs easily into A500 slot (no soldering) Switch provided to switch RAM in / out. Battery backed calendar/clock retains time/date on switch off.

Amazing low price.

without clock. (unpopulated) with clock. vithout clock with clock

(unpopulated) £29.99 (populated) £107.99 (populated) £119.99 Amiga Modulators £24.99

£17.99

PC XT bridge boards £599.99 PC AT bridge board £1148.99

Phone for Amiga software catalogue.

At Least 20% discount off all 16 bit games software.

Minimum Discount Our Price £24.00 £10 00 £20 00 £23.99 Maximum Discount £10.00

£24 00

Desktop Publishing etc. Phone for detail

£9.99 d SAE for full software catalo Phone for best prices

A4 Flatbed Scanner £499.99

Amiga Packs

PACK 1 £369,99 Includes Commadore Amiga A500 computer,

Tenstar pack of ten games and Mouse. PACK 2

£467.99 Includes Amiga A500 computer, 512 K RAM Extension, Tenstar games pack, Mouse. PACK 2 with Clock £479.99

£599.99 consists of Pack 1 with Phillips CM 8833 colour monitor, Tenstar games pack and

mouse PACK 4 £707.99

Consists of Pack 2 with Phillips CM 8833 colour Monitor, Tenstar games pack and

PACK 4 with clock £719.99

New Low Price Printers Hard drives

Amiga 1 Mg Drive, disable A/B boot switch (fined)(ST).

### cripherals & Dust Covers Monitors £249.00

Phillips 8833 Colour Monito The 8833 has stereo sound perfect for the Amiga. Multisyne Colour Monitors. Phillips 15" Remote, Scart, 40 Phillips 15" Remote, Scart, £229.99

£200.00

£400.00

Special Offers

Disk drives

# Repair Centre

to ourselves for £11.50. Nest day courier return £8.00.

£119.99 Board + 1 Mg upgrade(fitted)(ST) Board + 2.5 Mg upgrade(fitted)(ST) £89.99 £25 Board + 4 Mg upgrade (fitted)(ST) before ordering. All fitting prices quoted for machin ed with. The ST upgrade board can be progressively upgraded to a maximum of 2.5 MB. Due to aliation we must install and upgrade the for our Amiga upgrade board with or without clock, populated or unpopulated.

# New Low Price High Quality Disks

Quantity 10 3.5" D/S 5.25" D/S Q/D 96 TPI FR 99 £6.50 10+box £9.99 £7.50 100 £60 100+box £82.99 Sony Branded 3.5" D/S Boxed x 10 Sony Branded 3.5" D/S Boxed x 100 £10.99 £99

£599.99

# New Low Prices \*\*

A3 2818 Dhik brives
onner 11250 Hard Disks
dliST-Amiga 124.99 Printes
disk box 19.99 Others
e prices on 27 SIGNA products such as Colibri h
without OCR, Signon 2, Augur OCR-(for ST)

# Computer Systems and Packs £269.99

Amiga A500 Pack £369.99 scludes best selling Amiga A500 Mg drive, mouse and Tenstar se

Atari Mega ST 1+Mono Mon The new Mega ST 1 includes separate keybo chip, clock, 1 MB RAM, mouse and a busin

> Atari Mega ST 2+Mono Mon he Mega ST 2 includes seperate keyboard a MB RAM and mouse. The Mega ST 2 also

Atari Mega ST 4+Mono Mon £1099 The Mega ST 4 includes seperate keyboard and epu, Blitter chie MB RAM and mouse. The Mega ST 4 also includes a

New Low Prices \*\* Amiga A2000

Atari Portfolio (pocket pc)£249.99 amazing hand held computer is for patible and has built in software in Lext office, disry and a Lotus 12

Atari PC 4 (80286) £1499 be PC 4 has an 80286 processor running MB of RAM,60 MB hard drive, 5 AT as

Atari PC 5 (80386) £2599

# O STFM Explorer Pack

O STFM Super Pack
ides Atari 520 STFM with 1/2 Mg Memory, 1 Mg dei
slick and a software pack including organiser software
21 top quality games. £329,99

OSTFM Power Pack £359,99

MO STFM Super Pack £449.99

72)203166 Fax 561071

this guy, but you'd love to punch him in the mouth when he turns you into something that would not be out of place as a really nice pair of alligator skin shoes!

On your travels through the Great Underground Empire not only do you have to deal with the Jester but also some murderous problems. These puzzles are reminiscent of the original Zorks and often just as tought. A nice break is the use of visual puzzles or games such as Tower of Bozbar or the Zorkian card game, Double Fanucci. These can be played as a bytheby once they've been solved, simply for a bit of light entertainment.

The landscape in Zork Zero is quate huge, set in the time before the White House' which is the familiar starting point in the originals. In fact, many of the open ends eventually get explained by the end—an added incentive to play through to the end. The abode of the curses' original victim—Lord Dimwit Flathead the Excessive—contains everything from a massive underground take, a 400 storey office and a closet large enough to sleep an army.



■ Scouring the Encyclopedia Frobozzica: I wonder why the jester didn't like his portrait?



Flattened slime monster and sundry other squished creatures. Is this really art?

Excessive indeed, making the Underground Empire finally appear to be 'Great'.

Graphics are minimalized in particular infocom 'graphic' game, limited to the occasional graphic depiction of the games, the portrait and pictorial descriptions in the Encyclopaedia Frobozzica. Not a full-blown graphic adventure, the text is

enhanced by only a pretty border, so it retains the old feel of the older Zorks. Hower, it features the same rich, flowing text found in any classic infocom adventure, and the graphics do actually enhance the game without spoiling the flow.

Zork Zero holds your attention, but never really pulls you in completely. Atmospherically, the old Zork is there, but seemingly dated: where are the other characters? Just a few scattered beings are present, who are solely an extension of the puzzle without trace of intelligence. This isn't a major flaw, as the game returns with a fantastic parser, on-screen mapping, and the incredibly useful mouse-controlled movement compass. It's so much friendlier than other Infocom games, and so damn good to look at, even without pictures.



graphic adventure game is enjoyabe, although it is slow in places with frequent disk loads. Every action causes the green light and 'dwhirr' to occur, which is just about acceptable because you'll be busy scouring the windows for your next choice of action. Quack movements around the landscape are a problem: even more so if some object is moving or some sound effect is in

The sound effects are very well sampled and clear but, as usual, there is never enough. To make up for this I have this unexplainable



A warning for people who play on railway lines.

urge to smash every window and mirror in the game or wait around in the train station for the unforgettable 'Awl Aboooooaard!'

Graphically the game is good – colourful, concise and clear – any-thing too extreme could make the game unplayable with the mouse control. In fact everything within the graphic window can be manipulated, obviously with varying results. Mobsters, cach and clear stumps all have the same intelligence and are treated the same, but it simplifies the game to such an extent that the computer does the work.

Deja Vu II isn't mind warping in the typical puzzle adventure sense, but death or trouble occurs via the simplest of decisions: getting on the wrong train, walking around without your clothes, hitting passers by, Commonsense things really, but easily overlooked in this adventure.

Altogether, Deja W is a really add enjoyable romp. Its not a traditional tough text adventure, which will give it a wider appeal. Pretty pictures, good sound, it's easy to use, requires no typing skills and there isn't a bugeyed monster in sight. An adventure for lazy nights – shouch back in a comfortable chair, put the mouse on your lap and get engrossed in the criminal underworld of Deja Vu II. III

GRAPHICS 9
SOUND 4
INTELLECT 8
ADDICTION 5
OVERALL 82%

# DEJA VU II

When the boys from the Mob decide to interview you over the head with a brick, Icon Simulation/Mindscape leave you dazed

Life sure is tough. One minute you're snacking in Chicago, the next you're abducted, grilled by a Vegas mobster and then beaten senseless. Fun times.

Your task is simply to raise a mere 100,000 in pretty green within seven days or face the consequences. We've heard it all before, but the muttonheads following you are pretty mean sonovabitches and will rather pull out their own finger nails than let you survive. The odds aren't in your



■ So you thought you coul



Bringing back memories of the night before.

favour, matey. Can you sort out the real clues from the dross? If so, you may avoid the cold metal against your head and live to tell the tale back in Chicago.

The sense of Deja Vu hits you from the onset – very reminiscent of the original. I almost thought they'd sent me the first by mistake. The gameplay is identical, the same mouse-controlled action which, once you get used to it, is so easy. Click on the action and double-click on the object: what could be simpler?

Wandering around this true

# ARTHUR

# The legend of the Sword in the Stone is brought to life by Infocom/Activision.

The land and times of King Arthur have always been a popular basis for computer adventure games. going right back to the Spectrum's heyday. And why not? They have always proved extremely popular and it seemed only a matter of time before those masters of the genre, Infocom, got involved.

Fortunately. Arthur isn't one of the communal everyday quests for the Holy Grail or a happy 'big lads' chat' around a Round Table. In this version of the perennial favourite. you play the part of Arthur (as the title suggests) before he is invested King or, indeed, before Excalibur is even drawn from the stone.

The aim of Arthur, therefore, is to claim your birthright as King of England by drawing the sword, and challenging the possible usurper. King Lot. Of course, life tends to be a touch more difficult: side quests, problem characters, troublesome creatures, swamps and riddles of the usual Infocom devious nature. All in order to gain various kingly virtues of Wisdom. Experience and Chivalry to prove to Merlin that you are ready and able to be once and future King.

Arthur isn't completely alone and helpless in his quest. Merlin



■ Black knights always act cocky, but they seem to regret it later



ent of truth: are ye



A cosy little get-togeth that friendly chap, King Lot.



■ Some drinking partners, those dragons are! It's pathetic really...

has given him certain powers to transform into several creatures an Owl, a Salamander, a Turtle, a Badger, and an Eel - all of which have their respective powers which are easy to apply to the situations range' with pretty, if small, still pictures in every location. These aren't the ultimate, but they certainly enhance the game's feel; and if you're a die-hard text only fan. these can be switched off. Onscreen mapping is an extra bonus if, like me, you'd prefer to play the

you are likely to come across. Also

you have a magical torc which oh-

so-handily shows a hint menu. This

can come in useful if you're in a

dire situation, but the temptation is

always there for you to take a peek

at a problem you could have solved

Graphically, Arthur is the most

normally in a few seconds.

game rather than put pen to paper at every move.

Arthur isn't one of the toughest Infocom adventures, but then it has its moments. A few puzzles are quite brain-tickling, but these are few and aren't especially devilish. Others problems are quite tough. but most are blatantly obvious.

Atmospherically speaking. however, Arthur is supreme. You feel drawn deep within the story and have a deep desire to return to the computer. The final drawing of the sword will leave you elated, yet with a tinge of loss. You don't want the game to finish - and why should you? Arthur would have many more adventures ahead of him. It's a shame ours ends as Arthur becomes King

Live the legend, become the boy Arthur and claim your birthright. I can guarantee hours of pure enjoyment.



# GOLD RUSH

# "Go West, young man!" is the cry from Sierra On-Line

"GO WEST YOUNG MAN!" was the cry in this 'true to life historical simulation' and '3-D animated adventure game.' Sounds too good to be true doesn't it? So warily I set off. trekking as a famous 49er, or even a 48er as in this game...

You start the game after an irritating prologue in Brooklyn as a 'young city slicker' looking for excitement and Big Money by striking it lucky in the Gold Rush Country. Deciding how you're going to travel is one of the choices which will enhance the adventure you can go cross-country on wagons and steamers, cross over at Panama or sail around Cape Horn. This choice is actually the highlight of the game - playing each individual expedition hoping it will be better than the previous one.

The graphics are crude, the animation is not particularly smooth and the gameplay is tediously slow, even in 'fast' mode. It is obvious. however, that the game's authors had researched the game, and planned each graphic screen, (which have to be individually loaded) which would be fine if it



# Life sure is lonely in the e outdoors: camping in the wild with the seasoned veterans.

worked. The game's control interface is unhelpful and confusing at best, and the written descriptions are a nonentity. Puzzles are few and general common sense can reach through these - else you face an inglorious death. The non-player characters appear solely to be information givers, inept to do anything else except, perhaps, ignore you.

In reality, it seems a travesty to release such a slow, crude and basic game to Amiga owners who should rightly expect something better - in either graphics or gameplay. The game looks like it was created for a 12-year-old American kid studying American history - it even feels like educational software and not something to play for sheer enjoyment. Go West Youn... No thanks, I think I'll remain a city slicker, I won't have to go through all that again.



# THE CHEAPEST

AMIGA MEMORY UPGRADES AVAILABLE

SEE US AT THE PC SHOW
(27 SEPT - 1 OCT
EARLS COURT, LONDON)
STAND 2538

Systems Limited aim to supply the cheapest vailable for the Amiga range of computers. card for the A500 has dropped in price to

279.95 .We are now able to offer large cap at sory cards for

A500 HALF MEG CE 19,95

A500 TWO MEG £399,00

And On On-TAIL Oak NATE C 2200 derson

week-ends. Trade enquiries

A2000 TWO MEG £369.00

EIGHT MEG BOARD POPULATED TO TWO MEG LARGER UPGRADES AVVAILABLE CALL FOR DETAILS

2369.00 ALL PRICES INCLUDEs Vis Are Ing similar products for 0.30 am to 5.00 pm Monday to Friday. You can place orders at any time by calling our 24- hour, seven-days-a-week answering service. All orders are normally despatched same day,



Send cheques to:Dept AF

Memory Expansion Systems Ltd.

Britannia Buildings, 46 Fenwick Street,
Liverpool. L2 7NB

(051) 236 0480

(051) 23

VISA

(051) 236 0480 • 24 Hour Sales (051) 227 2482 • 24 Hour Fax



JASON HOLBORN presents the stepby-step guide to filling Kickstart 1.3.

FRY ME BABY

before touching any part of the board, you must take static precautions by earthing powrise! (If take of black of the static precautions by earthing incars softing in the static precauling the existence of nomines when the static precauing the existence of nomines were more experienced in these matters, but expend the precaution of the static precaution of the

The Kickstart ROM is positioned set to the 6000 processor in cocket U6 and can be recognised by a part number (215003-01). Before smowing the chip, note the orientation of the chip by locating the semircular notch that will be at one end the chip kert, remove the chip and replace it with your Kickstart 1.5 hip in exactly the same position, be chip simply pulls out of its check vertically.

# FORMAT WARNING!

If you re the kind of person that has problems fitting a plug, then you would be best advised not to attempt the above modification as you could do serious damage to your famps. The rule is it you're not completely sure what you're doing, then don't even think about try-ing to carry out the modification, yousnelf let your frendly computer dealer talk the responsibility. Opening up your Amiga will automatically void of my warranty on your machinary on your machinary on your machinary on your machinary on your machinary.

Please note that both Future Publishing and Commodors Business Machines cannot be held in anyway responsible for any damage that may be caused as a result of the above advice. ands up who hasn't upgraded their Amaga to Kickstart 1.3 Himm, just as 1 brought quite a few of you. Well, Amaga Format, in conjunction with those nice chaps at Commodore Technical Support, now installing the new Kickstart 1.3 ROM in your Amaga ASOO. If you do wish to carry out this modification, the Kickstart ROM is available from HIS Kon 0.21 789 7575 (part number 31509302).

To identify which version of Kickstart your machine has installed, turn on your machine without a disk in the internal drive and wait for the insert Worksheri'p frompt to appear. Underneath the hand holding the disk will be a number identifying the Kickstart release. If it says 1.3 then you already have Kickstart 1.3 within your machine.

### DISMANTLING YOUR MACHINE

The first thing you must do is unscrew and then remove the cover from you machine. Be very careful not to lose any of the screws, because these will have to be replaced once the installation is complete.



Next, unplug the cable that connects the keyboard to the main board while noting the orientation of the connector (If the keyboard connector is plugged back in the wrong way, your



Finally, unscrew and remove the silver shield that covers the board and you're ready to get down to the serious business of replacing the ROM.



Once Kickstart 1.3 is sitting snugly in ts chip holder, replace the shield, the ceyboard (don't forget to make sure hat the keyboard connector is plugged in the right way round!) and casing

Now comes the moment of truth once you've plugged everything back in, turn on your machine without a disk in the internal drive and wait for the "Insert Workbench" screen to appear. If wereything has gone OX, the hand should have '1.2' beneath it, if your machine falls to display this initial screen, turn everything off and seek the assistance of a qualified encience.

AMIGA FORMAT 89

# T.C. COMPUTERS

at: 12a Barnards Way, Charlton Heights Wantage, Oxon Ox12 7EB

# \* NEW AMIGA PACKS \*

Amiga A500 Pack 1	
Amiga A500 Pack 2	£37
Amiga A500 Pack 3	
Amiga A500 Pack 4	
Amiga A500 Pack 5	
Amiga A500 Pack 6	
Amiga A500 Pack 7	259
Amiga A500 Pack 8	
Amiga System 500 Pack 1	
Alliga System 500 Fast 1	

Amiga System 500 Pack 2	£845
Commodore C64 Hollywood Pack Commodore C64 Entertainment Pack	£140 £179
Atari 520 ST-FM New Super Pack	
Sinclair +2 incl. Games & Joystick	£129
Sinclair +3 incl. Games & Joystick	£179

GO TO T.C. COMPUTERS

All Prices Include VAT

# IT'S A PITY HE DIDN'T



	Commodore PC-1 SD Mono	£339	
	Commodore PC-1 SD Colour	£449	
	Commodore PC-10 III SD Mono	2570	
	Commodore PC-10 III SD CGA Colour		
	Commodore PC-10 III SD EGA Colour		
	Commodore PC-20 III SD 20MB HD Mono		
	Commodore PC-20 III SD 20MB HD CGA		
ı	Commodore PC+20 III SD 20MB HD EGA	£1,119	
ı	Atari PC-3 SD Mono	€610	
ı	Atari PC-3 DD Mono	0993	
	Atari PC-3 DD CGA Colour	£760	
	Atari PC-3 DD EGA Colour	6683	

ackard Bell PB 500 SD CGA Colour .. £740 mmodore PC's incl. on-site warranty and 102 keyboard on PC 10's/20's. Packard Bell PC's incl. FREE sol 12 month on-site warranty stari PC's incl. FREE software a £185 Star LC10 Printer €225

Star LC10 Colour Printer... 3 1/2" DSDD Disks + Labels (x10) ... ....(E & OF) Software Up to 35% off RRP.

Packard Bell PB 500 SD Mono

OXFORDSHIRE'S PREMIER COMMODORE DEALER

# LIVE IN LEEDS?

Why not visit the only dedicated Amiga and ST dealer in town?

We specialise in DTP, CAD, MIDI, Graphics, and business applications. Together with the full range of Amiga and Atari Computers, Star Printers, Genlocks Midi Keyboards, Interfaces, Second Drives and more.

MUSIC X NOW IN STOCK (REALLY!)

So for a better service, products range and the keenest prices call Miditech

MIDITECH, THE COLOSSEUM, COOKRIDGE STREET, LEEDS LS2 3AW

0532 446520
Access & Visa Welcome
MAIL ORDER AND TRAINING PACKAGES AVAILABLE



# THE COMPUTER STORE



SUMMER SALE	0070
A500 + Kickstart 1.3 + 8 Games + Joystick	£459
Meg Amiga Pack (as above plus Ram expansion)     Meg Amiga Pack (Ram expansion with Clock)	
These are new machines with full Commodore UK warr	anty
mouse/modulator etc. and FREE courier delivery.	

The state of the s	
A500 Second Drive - Quiet NEC Mechanism Able/Disable Switch - Through Port	£79.95
Commodore A501 Ram Expansion	£129.95
1/2 meg Ram Expansion (Without Clock)	

Amiga C For Beginners	(Abacus)	£18.45
Amiga DOS Inside and Out	(Abacus)	£18.45
Amiga DOS Quick Reference	Abacus)	£13.95
Amiga Disk Drives Inside and	Out(Abacus)	\$27.95
Amiga Systems Programmers		
Discs for Abacus Books		
Advanced Amiga Basic	(Computel)	£18.95
Amiga DOS Reference Guid	e (Computel)	£14.95
Amiga Machine Language	Suide (Computel)	\$21.95
Amiga DOS Manual (2nd Ed	) (Bantam/Com	modore) \$22.95
C Programming Lang. 2nd E	d (Kernigan/Ric	hie) £24.95

Caspell's Ribbon Refresh	
Re-Ink your Fabric Printer Ribbon.	160ml Can£7.95
This will Do Jok ground 30 Dihhons	Save Pounds!

3 1/2" DSDD

3 1/2" DSDD

Best Quality Guaranteed Disks New LOWE	
3 1/2" DSDD with 1 for 1 guarantee (each)	75p
3 1/2" DSDD with 1 for 1 guarantee (50)	
3 1/2" DSDD with 1 for 1 guarantee (100)	
3 1/2' DSDD Branded with 2 for 1 Guarantee (10)	£12.95
3 1/2" 2 Meg Branded with 2 for 1 Guarantee (10)	\$24.95
Disc Box Holds 40 x 3 1/2" Discs	\$4.99
Disc Box (Lockable) Holds 80 x 3 1/2" Discs	\$7.99
Disc Box (Lockable) Holds 100 x 3 1/2" Discs	
Printer Lead 1.8m long (PC/ST/Amiga)	\$6.99
23 Way D Socket (make your own monitor lead)	

Software Deluxe Paint III	\$69.99
Protext Word Processor	
Commodore A590 20MEG HARD DRIVE	\$399.00
A590 Drive Fitted with 1 meg memory	
A590 Drive Fitted with 2 meg memory	\$629.00
1 Meg of Memory for A590	
2 Meg of Memory for A590	
256 x 4 CMOS DRAM 120ns	£25.00

The Computer Store Tel: 021-770-0468 Unit 82 In Shops, 2-8 Greenwood Way

Chelmsley Wood Shopping Centre, Birmingham B37 5TL

### WORDS OF KINDNESS

I have collected over 70 extra fonts and placed them on two disks and have successfully been able to use them with the majority of my software. Unfortunately, I cannot find a way of incorporating these extra fonts into my favourite word processor, Kind Words 2.

I have tried assigning the logical device 'FONTS:' to my fonts disk, but Kind Words still continues to use its own default fonts. Please help. D OAKLEY

MIDDLESBROUGH

Kind Words 2 uses special, custom printer drivers and 'Super Fonts' which (supposedly) give the best possible print quality on even naffest of printers. Unfortunately, this means that you can only use the fonts that are included with the package.

If you do want a similar program to Kind Words that does allow you to use extra fonts, check out the far superior program ProWrite 2 which is available from the Amiga Centre Scotland (031 557 4242)

It's Enormous! You thought three pages of tips and tricks was too good to be true, but as from this issue. JASON HOLBORN presents a whacking four pages of the very best tips. tricks and advice.

supposedly lived in the battery I backed clock. Is this possible? 2. Is it possible to use the func-

tions written on the front of some of the keys on the numeric keypad (NumL, PgDn, PrtSc, Scrl. etc)? 3. Before buying an Amiga, I

mentation, I found a reference to a System Z virus. Is this in any way linked to the System Z virus killer that writes itself to bootblocks? A HARDING

NORWICH

1. The simple answer is no. The miniscule amount of RAM used by the battery backed clock would make writing such a virus impossible

2. Those funny little functions are in fact for use with the A2000 bridgeboard PC Emulators (don't ask me why the A500 has them?) When in Amiga mode, these functions have no effect whatsoever.

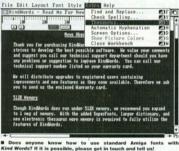
3. Unfortunately, the BBC Emulator cannot read BBC disks directly. However, it includes builtin software to allow you to port files across by connecting a lead between the Beeb's RS-423 and the Amiga's serial port.

4. You shouldn't have any problems using your Technics keyboard with the Amiga. MIDI is only a standard communications protocol between musical instruments and is (largely) manufacturer independent, If an instrument claims to support MIDI then it will (for 'will'. read 'should') work with all Amiga MIDI software. For MIDI applications, Music Studio isn't the most suitable software, why not check out Music X? (Read the review on Page 20.)

5. The System Z 'virus' that is trapped by VirusX is in fact the same bootblock that is output by the System Z virus killer. Although VirusX treats it as a virus, it doesn't seem to do anything harmful (correct me if I'm wrong!)

### GIVE ME SOME INFO

When using my Amiga for programming. I often find that I need to know how much disk space is available on a particular disk in my drive. At the moment, I have to load up the RSLClock program that was published on the cover disk of ST/Amiga Format's second issue. Unfortunately, I don't really want to have to load this program every time I want such a mundane piece of information. Is it possible to write a machine .



### LOADSAQUESTIONS....

I have owned an Amiga 500 for a year now and during this time I have accumulated some questions that I would appreciate some answers to:

1. A few months ago, there were various reports of a new virus that



I Is there a virus lurking within your RAM expansion?

owned an Acorn Electron which is used extensively for BASIC programming. Both the BBC Master Compact and the Electron use 3 1/2 inch disks. Is it possible for the BBC Emulator to read my BASIC programs straight from the BBC disks?

4. My sister recently bought a Technics EX35 organ with MIDI and I am considering purchasing a MIDI interface so that I can connect it to my Amiga. Will the organ be compatible with existing hardware and software? (I own Activision's Music Studio.)

5. On Issue 13 of your parent publication, ST/Amiga Format. the cover disk contained a PD virus killer called VirusX 3.10. While looking through the docu-



■ Using the INFO option in CLI to assess the free space on a disk.

code program (I have Devpac 2) that would tell me what I want to know?

P STEVENSON BISHOPS STORTFORD

You're making life very difficult for vourself. All Amiga Workbench disks have a little CLI command called 'INFO' which will tell you everything you want to know. To use it, just type INFO and press return and the command will tell you the amount of space used/available on all drives connected to the system.

### FONTS FROM BASIC

Could you please tell me how to use fonts other than the standard Topaz system font within my own AmigaBASIC programs. I've tried everything including the method used by NotePad, but nothing seems to happen. T BRICE

To use different fonts within your BASIC programs, you'll have to call the operating system routines. The Amiga font handling routines are held within the diskbased library 'diskfont.library' which resides within the LIBS: directory of every self respecting Workbench disk. As well as this library, AmigaBASIC also needs access to diskfont's '.bmap' file which will have to be created using the 'ConvertFD' program in the Basic demos drawer on your Extras disk. To use these routines, use the source code

stub below: DEFING a-Z

NORWICH

LIBRARY "graphics.library" DECLARE FUNCTION

"diamond.font"+CHRS(0) PointSize = 20

SADD (FontName\$)

GOTO Abort

Compiled with HiSoft BASIC

Now in Diamond Font, Amiga Format rules!

Now in Ruby Font, Amiga Format rules!

Now in Sapphire Font, Amina Format rules!

Now in Helvetica Font. Amiga Format rules!

ack to Topaz 8. Press any key

■ Enhance your AmigaBASIC screens is made (at least relatively) straightforward with our 'Fonts from Basic' routine below.

PRINT "Now in Diamond

SADD ( ("topaz.font"+CHR\$ (0)

FontAttr(1) = 8 \* 655365

CALL SetFont (WINDOW (8).

PRINT "Back to Topaz 8"

Abort : LIBRARY CLOSE

# DIGITISED DELIGHTS

I am very interested in buying a video digitiser for my 1 MB Amiga 500, and after reading Michael Nash's letter in Issue One. I decided to look into the digitising scene a little further. I have a budget of around £150 which will hopefully cover the digitiser hardware and the DigiView Gold that you recommended seems to be the best bet. However, could you please answer the following questions.

1. Do I need to buy any extra hardware to allow me to digitise colour images from a video recorder?

2. Can you digitise images from video tape while the tape is playing, or do the images have to be paused?

3. If you have to use a black and white video camera for digitising Tive' images, does this mean that I have to use black and white video tape to grab images from?

4. I have a movie camera which



A typical digitising set-up, composed of an Amiga, a vide camera, a digitiser and a lead.

uses Super 8 film. Is there any way of using this camera to digitise real life images other than converting the 8mm film to VHS format? J WARNER

1. To be able to digitise colour images from video, you'll need a rather expensive piece of hardware called a composite signal decoder which basically splits a composite video signal into its red, green and blue components. Unfortunately, we haven't heard of anyone selling such a device for use with home video

recordere 2. To digitise while the tape is run-

ning, you'll need a real-time digitiser which grabs its images at one fiftieth of a second. Because of the very slow nature of DigiView, you'll have to pause the image for at least ten seconds.

3. While it is possible to digitise both colour and black and white video images from tape, best results are achieved when digitising from old black and white films

4. If you can display a still from a Super 8 movie on the projector screen, then grab it from there.

# TELL ME SOMETHING I DON'T KNOW

Have you got a problem with your Amiga that needs answer-ing? If the answer is 'yes' then look no further than the Workbench Helpline for the answer. Obviously we can't enter into personal correspondence, but if you've got any questions, then we'll try our utmost to answer them as fully as possible within these pages. Send your troubled words to:

Workbench Helpline, Amiga Format, 4 Que Street, Bath BA1 1EJ

# **TOTALLY** RAD!

Using the Workbench RAD device to imitate a full 880K floppy disk.

While on the subject of Mountlists (refer to the tip 'CORRUPT DISK SHOCKER" if you don't know what I'm talking about!), those of you with more than a megabyte of memory can speed up disk copying by expanding the Workbench 1.3 'RAD;' device to a full 880K (same as a floppy disk). To do this, load the MountList file into Ed using the command ED

DEVS:MOUNTLIST. Next, locate the mountlist entry for RAD: and, in particular, the line that reads 'HighCyl = 21'. Change this line to read 'HighCyl = 79' and then save and guit the editor. Finally, type MOUNT RAD: and you now have a recoverable (and bootable if you have 1.3 Kickstart!) extra disk drive that can be used in the same manner as any normal floopy drive. MP SAUNDERS

DORSET



■ Instead of a second drive, use RAD!

# Hobbyte Busbyte Computer Centre

Warket Place, St. Albans, Herts Abans (0727) 41396 / 56005

# AMIGA ACCESSORIES

INC EMULATOR	£39.95
CHEMILLATOR	£69.95
ASSI MODULATOR	£23.95
ASSI RAM EXPANSION	£115.00
MINIGEN	£99,95
HIGHTISING PACK with	£329.95
Camera, Digiview Gold 3.0, cables	
PRO SOUND DESIGNER GOLD	£69,95
MIDLINTERFACE MM3000	£24.95
CASIO MT 240 KEYBOARD	£119.95
HOREM PACK ADVAA HAVES VILITA	£149.99

Commodore Buelness Centre, Principle Educational Dealer and Approved Amiga 2000 Centre

NO DEPOSIT (PERSONAL CUSTOMERS) AND LEASING TERMS (LIMITED COMPANIES) AND PLCs) AVAILABLE, ASK FOR DETAILS

# FANTASTIC REDUCTIONS ON AMIGAS

AMIGA 2000 AND ACCESSORIE	S (ex VAT)
AMIGA 2000, Mouse, Wkbench, Basic, Utilities, Manuals  'AMIGA 2000, 10845 MONTTOR, 3.5" AND 5.25" DRIVES AND  BRIDGE BOARD (giving PC compatability), 1.3 KS if specified  SABOVE, PLUS AMIGA/PC DOS 20 MB HARD DRIVE	£799 £1099
AS ANY ABOVE, BUT ALSO WITH THE WORKS	ADD 450
Note that special prices are available for othe figurations also	r Amiga con-
A2058 8 MB RAM EXPANSION, POPULATED TO 2 MB	£449
1279 off -A2088 XT BRIDGEBOARD WITH 5.25" 360 KB DRIVE	£250
A2286 AT BRIDGEBOARD WITHS.25" 1.2MB DRIVE	1559
*SPECIAL* - A5060/2092 20 MB PC/AMIGA DOS HARD DISC	40
*NOW AVAILABLE * - A2090A/2092 20 MB AUTO BOOT HARD DISC	2479
A2091A/2094 40 MB AUTO BOOT HARD DISC	1750
A2000 INTERNAL GENLOCK	\$187
A2350 BROADCAST QUALITY GENLOCK/FRAMEGRABBER	1545
A2022 PAL COMPOSITE VIDEO CARD	169
A2000 INTERNAL 3.5° DRIVE	£105
A2620 68020 CO-PROCESSOR	£1045
14" HIGH RES COLOUR MONITOR (Needs video Card & Cables)	£579
CABLES FOR HRCM	£29
VIDEO CARD FOR HECM (FLICKER FIXER)	£299
CHERRY DIGITISING PAD AND DRIVER	1499

# AMIGA 500 PACKS:

GAMES PACK

inc. Modulator, 24 games on 4 discs: Arcade, Adventure, Boar Bag, plus 8 additional individually packaged games from the fr Rabbit, Power Play, Mercenary, Alphamax One, No Excuses, Barrier Command, , Art of Chess, Amegas, Spritz Paint g list: Custodian, Roger , Nebulous, Star Ray, £349 Inc VAT Also with \$833 monitor AND LC10 co £749 Inc VAT AIR MILES PACK

inc. Modulator, 24 games on four discs: Arcade, Adventure, Board and Shoot-em-up games, Joystick, plus: 3 additional individually boxed games, Spritz Art packa AND 360 AIR MILES [Fair or Amsterdam is 450] Also with 8833 monitor AND £799 inc VAT PROFESSIONAL PACK

inc, Modulator, 24 games on 4 discs: Arcade, Adventure, Board and S The Works Spreadsheet, Database, WoldSPitochial OR Publishers Choice Also with \$833/10845 mon £450 Inc VAT ADD £399

EXPANDED PACK

inc. Modulator, 24 games on 4 discs: Arcade, Adventure, Board at ASSE RAM Expansion and Dragons Lair thoot-em-up games, plus: A500 EDUCATIONAL PACK - PHONE FOR DETAILS

# **AMIGA 500 HARD DISC DRIVE** £385 inc vat

				ECD		
549	484	699	599	849	749	
NANCE	WITH	HESE CB	M MACH	INES .		
599	534	749	659	899	788	
				1099		
1699		N/A	N/A	1899	1557	
1949	1598	N/A	N/A	2199	1803	
1249	1029	1399	1159	1449	1199	
1999	1649	2149	1779	2199		
2349		2549				
2699						
2549	2099	2749	2269	2799	2318	
	RRP 549 NANCS 599 799 849 1299 1949 1249 1249 1249 2349 2699	549 484 NANCE WITH T 599 534 799 689 849 779 1299 1065 1699 1393 1949 1598 1249 1029 1999 1649 2349 1939 2699 2229	RRP SALE RRP 549 484 699 NANCE WITH THESE CB 599 534 749 799 689 969 849 779 999 1299 1055 N/A 1699 1393 N/A 1249 1029 1055 N/A 1249 1029 1059 N/A 1249 1029 1099 1449 2149 2349 1299 2549 2549 2569 2229 2899	RRP SALE RRP SALE 549 646 699 599  NANCE WITH THESE GBM MACH 579 534 749 659 799 689 969 839 849 779 999 839 1299 1005 N/A N/A 1849 1598 1/A 1849 2849 1799 2849 1799 2669 2299 2299 2399 2394	RSP SALE RRP	RIPP SALE RIPP S

## AMIGA SOFTWARE SPECIALS

oton Paint II Lux Paint III noformer (AD Designer (AD Professional bishers Choice	062.95 062.95 019.95 082.99 0329.95 073.95	Dragons Lair All books 10% off BEST PRICES ON SOFTWARE - WE NORMALLY MATH BEAT ANY GENU ADVERTISED PRE Software prices in:	CAN CH OR INE CE.
ios Choice	£109.95		

### ORDERING

# The Game Creator Unleash the awesome power of your Amiga

Creator for the Atari ST has now been totally rewritten to bring out the maximum from your

# ► AMOS makes the most of the Amiga's unique facilities:

- · Animate up to 48 software sprites and 32 hardware sprites on screen at once
- · Create up to eight separate screen scrolling areas
- · Define up to eight screens each with its own resolution, bit map, position on TV, colour palette-in low or high res, ham mode or dual playfield mode
- · Program the copper list with ease
- · Play music files on interrupt (supports Sonix and Soundtracker files)
- · Super-fast window and text routines

# ► AMOS is a delight to use:

- · Lockable procedures, no line numbers, multistatement lines, sophisticated scrolling editor
- · Choose from more than 350 different commands to produce the results you want with the minimum of fuss
- · Hold up to four programs and 12 accessories in memory at once
- . Store music, sprites, IFF picture files and so on in memory banks which you can load and save independently of your program
- · Port STOS programs to your Amiga
- · Works on A500 with single drive
- · Supports hard disc drives
- · Add new commands with ease (3D routines for example)

### ► What you get:

AMOS Basic, sprite editor, sprite grabber, music editor, copper list editor, three complete games, Basic manual, Accessories manual, reference card and much more - all for just £49.95.

AMOS will be one of the hottest releases in the Christmas period. For a detailed spec and the latest updates, please write to:

AMOS Information, Mandarin Software, Europa House, Adlington Park, Adlington, Macclesfield SK10 4NP.



# SOFTWARE **EXPRESS**

For AMIGA and ATARI (021) 643 9100



# YOU KNOW

that Software Express publish the highly successful "Dungeon Master Editor". for the Amiga and Atari ST.

# YOU MAY NOT KNOW

that we are also the LARGEST Amiga and Atari Specialist in the Midlands and Southwest

dealing in PC's, Mega ST's, Amiga Desktop Publishing, Scanners, Lazer, Digitizers, Calamus, Epson Emulators, Databases. Word Processors, and not forgetting Games

Late Night Opening Thursday - 7pm

# **MIDLANDS**

212-213 Broad Street. BIRMINGHAM, B15 2JP

Tel: (021) 643 9100

For the best in Service & Support, visit our Regional Branches SOUTH

9 Exeter Street, (The Viaduct). PLYMOUTH, Devon, PL4 9AQ

Tel: (0752) 265276



# Track Computer Systems

Track are Specialists in Hard Drives, Serious Software and the Highest Degree of Customer Care.

We give Track Money Off Vouchers With EVERY order

# Amiga Hard Drives

Commodore A590 20Mb £399 Vortex 40 Mb £573 Track Drive 80 Mb Supra 30 Mb Supra 60 Mb

> A2000 Drives POA

Hard Drive Controllers

ANY SCSI DRIVES CONVERTED

Amdrive 30 Mb Amdrive 50 Mb

Track Controller (inc case) SCSI

### Hardware

Commodore 1084; Phillips CM8833 Star LC10 Colour Star LC10 External Floopy D external Floppy Drive
Combitee 8Mb populated 2Mb
B&W Scanner inc Software
Greyscale Scanner inc Software
Digi View Gold V3
Polartide Palette
Control Center F512W P £129.95 £1650 £49.95

Call Us For Service Beyond The Sale

Commodore 1084s 512K RAM (very fast) Expansion Xerox 4020 Ink Jet Printer £1400

Full range of hardware for all formats Please call for our extensive Brochure Protest
Word Perfect
WP Library
Beckertest
Kind Words 2
Prowrite 2
Award Maker Plus Deluxe Music Const Set Deluxe Photo Lab

Callers Welcome for special opening offers at our new shop

Blacksmiths Yard, Sadler Gate, Derby DE1 3PD

E86.91 K Spread 2 E199 Maxiplan Plus E90 Pagesetter E104 Professional Page E43.43 Publishers Choice E78.22 Animator/Images E34.74 Comic Setter £52.13 £130 £69.52 £216 £89.91 £90.00 £55.00 Deluxe Photo Lab Superbase Personal 2 Deluxe Paint III Deluxe Print II Deluxe Video Deluxe Paint II/D Print I 184.14 Cimels Stare
43.43 Design 31D
126.64 Dipipalnt III
178.23 Forms in Flight 2
13.24 When Seater
13.23 Forms in Flight 2
13.24 When Seater
13.24 Forms in Flight 2
13.24 Pay Video Plus Fent St.1
14.34 Pay Video Plus Fent St.1
14.34 Sough 30 (Pa)
12.44 Sough 31 (Pa)
12.44 The Director Tookit
14.34.37 The Director Tookit
14.34.37 The Tookit
14.34.37 Took 17.34
12.34 The Director Tookit
14.34.37 Took 17.34
12.34 Took 17.34
13.34 Too BAD Disk Oprimit £43,43 Deluxe Paint II/D Prin Small Bus Accs Plus Sculpt 4D Junior Page Flipper FX (Pal) Photon Paint II Zoetrope (Pal) £69.52 £58.50 BBC Emulator Butcher Calligrapher 1.05 CLImate Cygnus Ed Prof Diskwick Disk Master Dos to Dos Data Retrieve
Microfiche Filer
Data Retrieve Prof
Microfiche Filer Fius
Aegis Draw 2000
X Cad Designer
Professional Draw 173.91 Home Accounts werwindows 2.5 Project D Quarterback £109 £368 £60.83 £60.83 E34,74 TV Show (Pal) E26,04 Video Effects 3D E32,50 Video Generic Mas E43,43 Video Wipe Master E34,74 C-Lite migados Toolbox

We pride ourselves on our excellent service Please call into our shop or phone us anytime for sales or advice. Our trained staff will be only too pleased to help.

HOW TO ORDER TRACK PRODUCTS Make Cheques, Postal Orders, Bankers Drafts payable to Track Computer System All prices are fully inclusive of VAT & postage. We also offer credit, please phone.

LINES OPEN UNTIL 9pm WEEKDAYS 0773 531991 0860 639081

FAX 0773 765721

TRACK COMPUTER SYSTEMS, SYSTEMS H 28 BRAEMAR AVENUE, EASTWOOD, NOTTINGHAM NG16 3JY SYSTEMS HOUSE,



# Full demonstration facilities available Hardware & Software To enable YOU to make the RIGHT decision.

New MiniMAX Ram expansion for A500....Features Clock/calendar512K expand MiniMAX 512K £244 1Mb £323 1.5Mb £429 2Mb £573

# EVERY PRODUCT NOT IN STOCK IS USUALLY AVAILABLE NEXT DAY



Acquisition 1.3 rrp £249 Track Special Professional Page, Clip Art, Templat rrp £349 Track Special £212 Offer applies while stocks last

# **GURU'S GUIDE**

When your Amiga crashes. might be nice to know why.

The Amiga is undoubtedly a wonderful machine. Not only can it produce better sound and graphics than the vast majority of comparable machines, it can also crash far more impressively than most. You don't just get a 'Bus Error - core dumped' message or even a couple of meaningless bombs appearing on the screen: the Amiga crashes in style matey.

But just what do those seemingly meaningless Guru Meditation numbers really mean? Are they just the product of a tortured mind or can they really be of help to the average user? It must be said that Guru Meditation numbers aren't really a great deal of use to the average user, but if you're a programmer, then you'll find them immensely useful.

Guru meditation numbers have a general format which once you've learned how to decode them, a wealth of information will be revealed to you. The format for the code is

xxyyzzzz.pppppppp. where 'xx' is the particular part of machine that has caused the crash, 'w' tells you the error class, 'zzzz' tells you exactly what happened (eg. RAM out of memory etc) and 'ppppppppp' tells you the starting address of the task that caused the crash (there's no escape from the Gurul) Below is a list of the more common error codes.

# XX NUMBERS (System ID codes)

- 00 68000 CPU Trap
- 05 Math Library
- 07 DOS Library
- 09 Icon Library
- 10 Audio Device 13 Keyboard Device
- 14 Trackdisk Device
- 15 Timer Device
- 30 Bootstrap 31 Workbench
- 81 Exec Library
- 82 Graphics Library
- 83 Layers Library
- 84 Intuition Library

### YY NUMBERS (Error Classes)

- 01 Not Enough Memory 02 MakeLibrary Error
- 03 OpenLibrary Error
- 04 OpenDevice Error 05 OpenResource Error
- 06 I/O Error

### ZZZZ NUMBERS (Error Codes)

### Exec

- 0001 CPU Trap Checksum 0002 ExecBase Checksum
- 0003 Library Checksum 0004 No Library Memory
- 0005 Corrupted Free Mem
- 0006 No interrupt memory

# Graphics

0001-5 Copper Error 0006-A No Memory

### Intuition

- 0001 Unknown Gadget 0002-5 No Memory
- 0006 Item Box Error 0007 No Memory for new
- screen
- 0008 No memory for AllocRast()
- 0009 Unknown system screen 000A No memory for add gadgets
- 000B No memory for open window

# Dos

- 0001 No memory for startup
- 0002 Taskend failed 0003 Packet failure
- 0004 Unexpected packet failure (Oo-err!)
- 0005 FreeVec() failed 0006 Disk block sync error
- 0007 Corrupted bitmap
- 0008 Key already set 0009 Bad checksum
- 000A Disk Error
- 000B Key out of disk range 000C Foul Overlay

# Trackdisk

- 0001 Seek Error
- 0002 Error Wait
- 0001 Bootsector Error



■ The A2000 'CPU unit' and keyboard, with the infamous 'telephone-cable style connecting lead'. Which is always too short...

# A2000 KEYBOARD TRICK

If you just can't get that keyboard far enough, try this little tip.

External keyboards are all very nice, but why do computer manufacturers always make the connecting leads so short? Thankfully, you can extend the length of the A2000 keyboard very cheaply and, best of all,

without ever having to snip a single wire. The A2000 (and the B2000) keyboard uses a five-pin DIN type

socket is the same connector used by many audio, video and MIDI devices and so an appropriate lead shouldn't be too hard to find. What you'll need is a lead that has a male five-pin DIN connector on one end and a female five-pin DIN on the other end. This should then be connected between the Amiga and the keyboard. I know, the comment Why connector to connect to the main | didn't | think of that before' system box. This five-pin DIN springs to mind!

# A FREE VIRUS KILLER!

Yes, you may already own this entirely FREE bootblock checker!

Calling all Workbench 1.3 owners! Did you know that your all new improved Workbench disk includes a freebie virus checker/killer? You didn't? Then read on...

It isn't really surprising that you haven't found this little gem as the manual writers at Commodore have done their to hide the fact by using the smallest possible font size that their typesetter can manage.

The virus killer is built into the CLI 'Install' command which is used to construct boot blocks on floppy disks. To use it, you must first enter the CLI and then just type INSTALL DFO: CHECK. The 'Check' option tells AmigaDOS to compare the bootblock of the disk currently within the internal drive with a standard 'clean' . ▶ bootblock. If the bootblock appears suspect, then Install will return 'MAY NOT BE STANDARD V1.2,V1.3 BOOTBLOCK', else it will return 'APPEARS TO BE STANDARD V1.2,V1.3 BOOTBLOCK' if everything seems clean and healthy.

If Install thinks that the bootblock is suspect, all you have to now do is to type "INSTALL DFO;" and the potential virus will be sent to live on the great floppy disk in the sky.

C CANNON ROMFORD

# VIDEO VISUALS

There's only one way that Kylie Minogue is ever going to get on our Amiga...

So you've got yourself an Amiga plus monitor and access to a video recorder: how would you like a free TV thrown in to the bargain? Read on, matey.

What you'll need is a pair of leads with phono connectors on one end and the appropriate connectors on the other end to connect to the 'Video Out' and 'Audio Out' sockets on your VCR. First of



Kylie Minogue could be

all just connect a lead between the VCR 'Video Out' socket and the 'CVBS/L' connector on your 1084 and then do the same with the 'Audio Out' and 'Audio' connector on the VCR and Monitor respectively. Once everything is connected up, pull down the front panel on the 1084 and press in the little button labelled 'CVBS/RGB'. Now when you play a tape on the VCR, the picture will be displayed on your Amiga monitor. If the video display seems to become corrupt when you turn on the Amiga, try unplugging the SCART lead that connects the Amiga to the monitor.

If you also have an aerial lead plugged into the VCR, while a table to is not running you'll be able to watch Neighbours on your 1084 (which is hopefully the nearest we'll ever get to having a Neighbours program running on the Amigal)

NATALE FINN
FROME

# COLOURFUL CRASHES

Screen colour can be informative.

Many of you may have noticed that when the Amiga is first on, the screen cycles through shades of grey before the finsert Workbench' prompt finally appears and the Caps Lock light flashes. This rather strange process is called a 'self-diagnostic' and is basically the Amiga testing all its various bits and pieces to make sure everything is working OK. Owners of the A1000 even have an extra diagnostic when the machine is first turned on: the Amiga actually plays a little tune before booting Kickstart from disk!

If your machine is OK, the sequence will be: dark grey, light grey, white and then finally the lissert Workbench requester pops up, if something goes wrong with your machine, the screen will turn to a certain colour to indicate a particular fault. Here's a guide to those kickstart colours.

Green - Chip RAM Failure

Yellow - 68000 trapped before Guru initialised

Blue - Error in PAD (custom chip error)

Red - ROM failure

PATRICK DOWNES

# **50 BIG ONES JUST FOR YOU**

Workberch just keeps on growing. As a result, we need you to send us your tips and irticks it you're got have any trendy little tips that you think would be of use to you fellow Aniga coners, then why not jot them down and send them into Workberch: you could win yourself 250 for your troubles. Send your ties of

Workbench, Amiga Format, 4 Queen Street, Bath BA1 1EJ.

£50 IS WAITING FOR YOU!

# **CORRUPT DISK SHOCKER!**

Not just disk first aid: this is more like open heart surgery.

It really is very annoying to insert a disk into a drive only to get a Validation Error' prompt pop up every time. Usually, you can save the disk by either using the Diskdoctor utility or by reformatting it from scratch. Sometimes, however, a disk can be so badly corrupt that it won't even reformat and so it usually ends up in the bin.

But, as it happens matey, there is a way of partially getting around this by messing around with the Workbench Mountlist to create a custom device that only uses those tracks that come before the corrupt tracks.

First of all, format the courrupt disk using the Format command and note down the track number that causes the format to fail. Now type ED DEVS: MOUNTLIST to load the Mountlist file into the CLI text editor, Ed. Once Ed appears, search through

the file for a Mountlist entry for a device called 'DF2:' which will look something like the entry below:

mounted as DF2: \*/
DF2: Device = trackdisk.device
Unit = 2
Flags = 1
Surfaces = 2
BlocksPerTrack = 11
Reserved = 2
Interleave = 0
LowCyl = 0; HighCyl = 39
Buffers = 20
Buffers = 20
Buffers = 20
Buffers = 20

/\* Mount a 5.25" disk drive to be

Firstly, change the 'Unit = 2' line to read either 'Unit = 1' (if you have two drives) or 'Unit = 0' (if you have only one drive). Next. change the line 'HighCyl = 39' to read 'HighCyl = nn', where 'nn' is the number of the last track that the Format command was able to successfully format before encountering the corrupt tracks (take one away from the track number that you wrote down). Finally, type MOUNT DF2: and then format the corrupt disk using FORMAT DRIVE DF2: NAME "Empty". Now, whenever you wish to access the disk, you must refer to it as DF2: regardless of which drive it is in. MP SAUNDERS DORSET



# MAIN MEDIA



### UNBRANDED LIFETIME GUARANTEE

QUANTITY 10 100 31/2" SS/DD 135TPI £7.95 £15.50 £22.75 £29.50 £35.75 £69.95 31/2" DS/DD 135TPI £8.50 £16.50 £23.95 £31.25 £37.95 £74.95

### RDANDED 2 1/2" DICKS

DITAMBLE S 1/2 DISKS	
31/2" SONY DS/DD 135 TPI BOX OF 10	£14.50
31/2" 3M DS/DD 135 TPI BOX OF 10	£14.50
31/2" VERBATIM DS/DD 135 TPI BOX OF 10	£14.50
31/2" DYSAN DS/DD 135 TPI BOX OF 10	£16.50
31/2" SONY DS/HD 2.0MB BOX OF 10	£29.95

All 31/2" Disks come complete with labels and come with our No Quibble Money Back or Replacement Guarantee.

# DISKETTE STORAGE BOXES

		Price Each
50 x 31/2"	Hinged Lid Lockable	
100 x 31/2"	Hinged Lid Lockable	£7.50

### DISK BOXES WITH DISKS

£15.90 Falcon F16 £19.90 Licence to Kill

Hinged Lid Lockable with 20 DS/DD 135TPI.....£21.50 Hinged Lid Lockable with 50 DS/DD 135TPI....£44.95 50 x 31/2" 100 x 31/2"

Al prices include VAT and Carriage. All Goods despatched within 24 hours
Cheques/P.O.'s to: MAIN MEDIA



FREEPOST ANDOVER, HANTS. SP10 3BR Tel: 0264 333830 (24 hrs)

# MEGASAVE FANTASTIC SAVINGS

		Fallen Angel Fantavision	£12.90	Live and Let Die	\$13.50	Skweek	£13.90
erburner	£15.90	Fantavision	£29.90	Lombard Rafly	\$14.95	Slaver	\$13.90
bourne Ranger	£15.90	Fast Break	£16.90	Lords of Rising Sun.	£19.90	Sleeping Gods Lie	£15.90
erican Ice Hockey		Fed. of Free Trading		Manhunt New York.	\$19.90	Soccer (Ocean)	\$16.90
gle of Death	£15.90	Ferrari Formula 1	£17.50	Mayday Squad	£12.90		
hipelagos	£15.90	Fire-Brigade	£19.90	Menage	£12.90	Spherical	\$12.90
teroth	£15.90	Flight Simulator II	£35.90 ·	Microprose Soccer		Star Glider II	\$14.95
M	£12.90	Flying Shark	£15.90	Millenuim 2.2	\$15.90		
of Power 1990 ::	£15.90	Football Director II	£12.90	Monster Stam	£12.90	Sheet	\$13.90
rbarian E	£15.90	Football Manager II.	£13.50	Mr Heii	£15.90		
rds Tale I or II	£16.90 -	Football Man, if exp.	_08.95	Murder in Venice	£15.90	Steve Davis Snooker	12.90
man		Forgotten World	£13.90	Navy Moves	£16.90	Storm Trooper	\$15.90
man (The Movie)	£16.90	Freedom	£12.50	Never Mind	£13.90	Story So Far Vol I or III	£15.90
tiehawks 1942	£16.90	Frightnight	£12.90	Newzealand Story	\$13.90	Stunt Car Racer	\$15.90
tie Tech	£19.90	Fusion	£16.90	North & South	615.90	Super Hang On	£15.90
ttle Valley	£13.90	Galdregon's Domain	£13.90	Operation Neptune	\$15.90	Superman	\$14.95
ach Volley	£15.90 -	Garfield Winter	£15.90			Super Scramble	£10.00
and .		Garfield	612.90	Outrun Outrun Europa Pac Land	69.90	Super Wonder Boy	617.00
challenge	615.90	Gauntlet II	\$16.90	Overior Europea	610.50	Swort of Sodan	610.00
nic Commando I	69.90	Gemini Wings	612.90	Pac Land	612.90	Sword of Twylight	
5e	C16.90	Gilbert (Drill)	£12.90	Pacmania	£11.05	T. Gascoigne Soccer	
steroids	615.90	Grand Monster Stam		Paladin	£15.00	T.V. Sports Football.	E10.00
and Manney	£15.90	Grand Prix	617.60	Passing Shot	615.00	Tail Spin	210.00
od Money odwych	615.00	Grandslam	616.00	Personal Nightmare	C10.00	Tank Attack	C15 00
mber	C+2-90	Gunship	616.00	Phobia	616.00	Tarphan	210.00
ach	573.60	HATE	C13.50	Police Quest II	C15.00	Teenage Queen	610.90
oher Hill	£13.50	Hawkeye	612.00	Pool of Radiance	C16.00	Test Drive 2	515,00
Momian Games		Herpes of Lance	010.00	Populus	616.93	Test Unive 2	£16.90
	£15.90	High Steel	510.90	Populus .	110.90	The Champ	X16.90
mer Command		Highway Hawk	£12.90	Populus (Prom, Lan	20074-40	The Games (Winter)	£14.20
	£15.90	riighway riuws	£12.90	Powerdrome	£16.95	The Kristal	\$19.90
ariots of Wrath	£15.90	Highway Patrol	£15.90	Precious Metal	£15.90	Thunderbrds	£15.90
us Attractions	£12.90	Hostage	£14.95	Preditor	£15.90	Thunderblade	£15.90
		Hybris	£15.90	Premier Collection	\$19.90	Tiger Road	£13.90
lossus Chess X		B.s	£16.90	Prospector	£15.90	Time Scanner	£16.90
nflict Europe	£15.90	15.5	£16.90	Putty's Sags	£15.90	Titan	£15.90
smic Pirate	£15.90	ISS Indiana Jones II	£13.90	Purple Saturn Day	£14.95	Tracksuit Manager	£12.90
ary Cars II	£15.90			Quartz	£15.90	Trained Assasin	£15.90
ley Thompson Oly	E16.90	Interceptor	£16.90	R VF.	£15.90	Triton	E9.90
nger Freak	£13.90	Iron Tracker	£13.90	R-Type	£16.50	Triv. Pursuit N. Beg.,	£12.90
Nside	£15.90	Jaws	£12.90	Rader	£12.90	Turbo	213,90
astorm	£16.90	Joan of Arc	£15.95	Rainbow Island	£15.90	UMS	£15.90
loon 5 a Wu II	£15.90		£16.90	Rainbow Warrior	£15.90	Ultimate Golf	£13.95
a Vu II	£15.90	Journey Cent. Earth.	£13.50	Rampage		Vigilante	£13.90
mon Tomb	£13.90	K.D'Glish Soc. Man		Real Ghostbusters	£16.90	Vindictors	£12.90
mons Winter	£15.90	KKM		Red Heat	\$16.90	Voyager	£15.90
naris	£16.90	Kennedy Approach	£15.90	Red Lightning Rick Dangerous	\$20.90	W. Gretzky Hockey	219.90
amite Dux		Kickoff	£12.90	Rick Dangerous	£15.90	War in Mid. Earth	£15.90
ctor Plummet	£13.90	Kind Words	£39.90	Ringside	£15.90	Waterloo	£16.90
minator	£13.00	Kingdom of England	£15.90	Road Blaster	£13.50	Wierd Dreams	\$15.90
uble Dragon	£12.95	Knight Force	£15.90	Robocop	£16.90		
gon Ninia	£16.90	Kull Lancaster	£15.90	Rocket Ranger	\$19.90	Wicked	£15.90
gon Spirit	£14.90	Lancaster	£13.90	Running Man	£15.90	World Class Leaderboard	£9.90
am Zone	£16.90			Run the Gauntlet	\$19.95		
ngeon Master	£14.95	Last Dual Last Nrya 2	£10.50	STAG	£15.90	Xenon II Xenophobe	£15.90
	£14.95	Last Nrya 2	\$16.90	Shadow of Beast	£24.90	Xenophobe	£15.90
manuel	£12:90	Lead Storm	£13.95	Shinobi	£12.90	Xybots	£12.90

Please note, new products will be sent on day of release.

nly. Postage included Great Britain. Add 75p per item EEC. Overseas add 51.50 per item. Fast service, send cheque PO to: Megasaws.

Dept AF, 49H Sutherland Street, Victoria, London SW1 V4JX.

# VIDEOSTUDIO FOR THE AMIGA





TIME FUNCTIONS Customisable, station Clock and broadcast style VTR starcted
 A stopwatch with options such as day and date, frame display

TEST FACILITIES A suite of standardised test patterns with audio test tones.
 Eq. Crosshatch, Testcard, Greyscale etc.

A main screen tide with multi-colour fort operation.
 A south time with common versical and roborate scoring.
 A souther with colour stage and but CoL. Pais and Print options.
 A manufacture with colour stage and but CoL. Pais and Print options.
 A colour stage and but to be subject to the colour stage and colours representing options.
 Overlag over line video or over background putture files (FFF) generated by a paradiage or a video diplicate friese patient places.
 Overlag over line video or over background putture files (FFF) generated by a paradiage or a video diplicate friese patient places.
 Overlag over line video or over background putture files (FFF) generated by a paradiage or a video of patient file-generated colours.
 Overlag over line video or over background putture files (FFF) paradiage or overlag o

gen (for the home user) tol A8802 (For the pro) GENLOCKS + SOFTWARE (save £22) £193 .(save £5) £180 n + Videostudio software... n + Video Generic Maste Titling software ... Master Software will run on an unexpanded A500) (save £57) £329 AMIGA HARD DISKS £435 CALL £399

Other Amiga products are available. Send ALL PRICES INCLUDE UK VAT + P&P. S MAZE TECHNOLOGY

Mail order only

01-520-9753

# **PROFESSIONAL**

Design? Graphics? DTP? Business

If you're interested in using the Amiga professionally, or are already doing so, you should call us. With our experience as a Commodore approved Amiga business centre, we can get you and your system working at full speed, be it anything from video presentations to application development. And with on-site maintenance, training, telephone support and in-house programming, we can make your life easier, too.

# PAGEPLAY LIMITED.

2-3 FITZROY MEWS, LONDON, WIP 5DO.

TELEPHONE 01-387 4040 FACSIMILE 01-380 1500

# 2 William Clowes Street Burslem Stoke-on-Trent ST6 3AP Software Tel 0782 575043

AMIGA NOT

AMIGA SPECIAL OFFERS	AMIGA TOP TITLES	TO BE MISSED	SPECIAL OFFERS
R Type9.95	F16 Combat Pilot 15.95	Teenage Queen7.95	r
Wicked9.95	Barbarian II16.95	Techno Cop6.99	i EDUCATIONAL
Dominator9.95	Bloodwych16.95	Hostages9.99	I Fun School 2.
Time Scanner8.95	Xenon 2 - MegaBlast 16.95	Legend9.99	under 8
Real Ghostbusters8.95	Falcon19.95	Captain Blood7.99	
/indicators9.95	Falcon Mission Discs 13.95	Mini Golf6.99	12.99
Pacland8.95	Populous17.95	Zany Golf14.99	I Fun School 2,
Pacmania8.95	Populous Data Discs7.95	GB Air Rally5.99	6-8
Garfield 18.95	Leisure Suit Larry 1 11.99	Three Stooges8.99	
arfield 2 Winter Tale 9.95	Leisure Suit Larry 2 19.99	King of Chicago8.99	12.99
	Police Quest 111.99	GFL Football4.99	I Fun School 2,
MM	Police Quest 219.99	Champ Golf5.95	l over 8
UNDER A	Space Quest 111.99	Vixen2.99	! 12.99
TENNER!	Space Quest 211.99		
SELECTION	Afterburner9.99	Armageddon Man2.99	Postman Pat
TARRANN	Krystal12.99	Fernandez Must Die6.95	7.95
	Battle Tech14.99	Faery Tale Adventure 8.95	1
nantom Fighter8.95	Portal7.95 Trained Assassin16.95	Tracers3.99	L
oneer Plague4.99		Ebon Star2.99	
unning Man9.99	Bubble Bobble 2 16.95	Galactic Invasion2.99	Division 15.9
9.95	Wierd Dreams16.95	Romantic Encounters 5.99	Football Manager 29.9
ismarck9.95	Kennedy Approach15.95	Fire Power	Soccer Supremo6.9
nnals of Rome9.95	Kick Off13.95 Microprose Soccer15.95	Better Dead Than Alien .5.99	Test Drive 219.9
eturn of the Jedi9.99	Ultima 515.95		
eter Beardsley Soccer7.99	3D Pool15.95	Shanghai4.99	
vperdome5.99	New Zealand Story16.95	Wanted3.99	HARDWARE
antasm5.99		Lombard Rally RAC14.99	1 meg Expansion
cader.iy5.99	Rick Dangerous15.95	Nigel Mansell's G. Prix5.99	£89.95
rtura5.99	Indy Jones + Last	Deja Vu8.99	
oundations Waste5.99	Crusade16.95	Star Goose	External Drive
orld Tour Golf7.95	Forgotten Worlds16.95	Backlash5.95	£89.95
ards Tale7.95	Scorpion	Craps Academy5.95	Star Mono Printer
arble Madness7.50	Elite16.95	Solitaire Royal6.95	
ıtrun7.95			£169.00
gilante9.99	Honda RVF16.95	Prison9.99	Star Colour Printer
wer Struggle5.99	Sleeping Gods Lie15.95 Kult	Strike Force Harrier6.99	£199.00
wer budgglemmino.55	Conflict Europe16.95	Robbeary4.99	The letter the second s
1 4 4 4 4	Waterloo16.95	Thexder2.99	Philips
NVVV	Waterioo16.95	Action Service3.99	Stereo Monitor
TRIAD		Roger Rabbit7.99	£249.00
Starglider.	I NMM	Indoor Sports4.99	1 1249.00
S Barbarian,	111111111111111111111111111111111111111	ISS5.99	
Defender of the Crown	FANTAVISION Z	Rocket Ranger18.99	Please phone for
2 RRP \$29.99			availability
7 Sale price	≥ £25 >	Lords of the Rising Sun 19.99	
£9.95 A	4	Grand Prix Circuit17.99	All prices
JAAAA A	-4N	Deluxe Paint 3 (1 meg)54.99	include VAT.
VVVVV		A RESERVE OF THE REAL PROPERTY.	
, , , , ,	, , , , ,	THE RESERVE OF THE PERSON NAMED IN	L

All orders over £6.00, postage and packing free.

# **GAMEBUSTERS**

There's no need to cry, there's no need to hit the bottle or kick the cat! Just count to ten, take a few deep breaths and then turn to Gamebusters to see just how you're supposed to get past that monster and on to the next section.

# KULT

Here's how to solve those five ordeals (if you think you should!)

### 1. DE PROFUNDIS

You will need the rope for this ordeal.

Enter the room and wait for a hook to lower from the ceiling. Latch your rope onto it and hang on until the monster reappears, then click on the monster and drop onto it and wait until it carries you to the other side of the room where you can collect your skull.

# 2. THE TWINS

You will need the goblet for this ordeal.

Go through the door to the left of the serpents into a room called The source. Inspect the statue in the fountain. Press the eye of the statue and water will pour from the statue iffl your goblet. Now return to the room with the serpents and pour the water into the left serpent's mouth. Take the die that floats to the surface and throw it (if usually comes up a two), remember the number then drop it into the mouth of the second serpent and the other door will open, so go through it.

Then lift the number of hands that was shown on the die and

press the head: if you lift the correct hands the small partition will open and a symbol will be revealed. Go back into the source and examine the six cubes beneath the fountain, lift the lid of the one with the corresponding symbol to receive the skull.

### 3. THE WALL

You will need the dagger for this ordeal.

Enter the room and press the third mark on the floor, them press the first mark followed by the second. The sliding doors should now be together: if they aren't then repeat the process using different combinations. Once the doors are together go through the left hand door. Stand on the step and put the dagger in the slot on the knight, the wall will flip over revealing a passage on the right go down it and put your hand in the hole to receive a skull.

### 4. IN THE SCORPION'S PRESENCE

You will need the fly for this ordeal.

Firstly you need to pray to the large black statue, then go through the door in front, crawl up to the mistress and give her the fly. Refuse her offers of kisses etc and feed the fly to the blue soider.

Take the red spider and put it into the mouth of the large statue and a door will open. Go past the man

# 5. THE NOOSE

You don't need anything for this ordeal.

Enter the room and use solar eyes if it's dark. Grab hold and cirab hothe left rope up onto the platform. Pull the lever to kill the Poormouth (who plays no part) and examine the hollow in the platform to get he skull. Then pull the lever again and take the left hand rope before exhight the room. Bingol GARY CROOK.

who appears and take the skull.



DATABBAIN Ltd 52 Idlecombe Road Tooting London SW17 9TB

9am - 8pm 7 Days a week

# **HARDWARE**

A500 with Modulator	£377
A1084s Colour Stereo Monitor	£282
A500 + A1084s	£610
A501 Half Meg Expansion	£130
A2000 + A1084 Monitor	P.O.A
Amiga A1010 External Drive	£135
NEC 3.5" External Drive	£85
Senator 3.5" External Drive	
NEC P2200 24 Pin	£389
Amiga MPS1500C Colour Printer	£275
Epson LX800	

# SOFTWARE

Due to the ever expanding range of software for the Amiga. space does not allow us to mention every package available. Below is just a SMALL SAMPLE of our software prices. If the item you require is on the market, then we can supply it and at a competitive rate.

Battlehawks 1942	£18
Millenium 2.2	£18
Dungeon Master (1 meg required)	£18
Dragons Lair (1 meg required)	£32
Elite	£18
Sword of Sodan	£18
Publishers Choice	
Publisher Plus	£78
Shakespeare	£112
Superbase Personal 2	£72
Superbase Professional	£181

Whatever the item, either leisure or business we can supply it. We provide full support whenever possible and if we can't then we know a man who can. We never forget that you are the most important person in the company and we will help you get the most from your Amiga and the software that makes the Amiga the machine of today and tomorrow. All our staff are in the process of being trained by Commodore to enable us to

provide the service that you expect and deserve. We constantly look at new ways to improve our service and so we are prepared to 'Bundle' items together in any combination that suits you and your pocket, please phone for details on these and any item you require.

Remember, WE ARE HERE TO HELP YOU.

# DATABRAIN Ltd 01-672-4791

All our prices include VAT. Please phone for carriage rates. COLLECTIONS BY APPOINTMENT, please phone.

Are you new to the Amiga. finding it difficult to harness the power of this amazing computer ?, then what you need is help from the largest group of Amiga enthusiasts in the world.....



### Members receive:-

- Excellent discounts on software
- 4 Technical support and on line help
- ÷ Superb hardware reductions
  - A bi-monthly newsletter of over 60 pages! Access to a PD library of over 300 disks
  - Use of the groups Amiga only bulletin board
- Discounts on books





DON'T HESITATE - JOIN NOW and start to appreciate what Amiga computing is all about. For further details write, enclosing a stamped addressed envelope to:

The U.K. Amiga User Group, 66, London Road. Leicester, LE2 0QD.

> Or Telephone: Leicester (0533) 550993

# A SMALL SELECTION FROM **OUR WAREHOUSE**

Hardware & Peripherals (Offers while stocks last)	RRP	WAVE
64C Connoisseur's Pack inc: 64C, Neos Mouse, Software etc	249.99	132.99 A
Amiga 500 inc. Free Modulator & Workbench 1.3	499.99	329.99 A
Amiga 500 'Miles Better' Pack inc 500 Free Air Miles	499.99	419.16 A
Amiga 1000 + A1050 256K Ram Expansion + A1081 HR Colour		
Monitor (a bargain not to be missed, very limited stocks)	.1115.75	599.95 AND
Commodore A1084S HR Colour Stereo Monitor - Amiga/PC	299.00	269.10 A
Commodore A1010 3.5" External Drive - A500/PC1	286.35	88.99 B
Vortex System 2000 40MB ext Hard disc inc PSU. FAN. UTIL	573.85	482.03 A
Cumana CAX354 3.5" Bot DS 1meg drive - Amiga	99.95	84.96 C
MGT Lifetime 3.5" Drive inc Lead to Amiga	148.45	126.74 B
PL-2 Lead, Printer Centronics Parallel - Amiga	14.95	6.98 F
Star LC10 Parallel F&T NLQ Printer	297.85	158.01 A
Star LC10 Colour Parallel F&T Printer	343.85	206.31 A
Star LC2410 Parallel F&T NLO 24 Pin Printer	458.85	321 20 A

ARE YOU A PUBLIC SECTOR COMPANY, EDUCATION AUTHORITY, LOCAL/COUNTY COUNCIL, GOVERNMENT DEPARTMENT, ETC: THEN TO DETAIN WHAT MUST BE THE BEST COMMODORE PC & AMIGA PRICES AVAILABLE WRITE TO US ASKING FOR OUR TRADE PUBLIC SECTOR DIVISION PRICE LIST

Kempston/Contriver AG10 Replacement Mouse - Amiga Computer Labels 89mm x 36mm 1 across Box 1000		25.46 E 6.44 D
Blank Discs & Software  X-Gal Designer Regal The Ran) - A50010002000  Mark Arte C Complete Developer Cells V1.46A- Amiga Mark Arte C Complete Developer Cells V1.46A- Amiga Flus School 2 (state ver under 6yrs-16 yes/lover 8yrs) A500.  Commodore Enhancer Workberich V1.3 & extras 1.3 + Book James Associates BIOE Emulstor - A500  Verbasim 3.5" DS-00 135TPI Bulk Discs PK25*  VU-DSBU, DB Lockable Storage Box holds 80 3.5"	113.85 299.00 19.95 14.99 49.99 62.50 23.77	12.97 E 11.99 E 39.49 D 20.63 D

DO YOU WANT TO SAVE MONEY, THEN SEND FOR OUR TRADE PRICE LIST STATE FOR WHICH PRODUCTS AND ENCLOSE 3 19P STAMI

CAPTAIN CAVEMAN BBS NOW ON LINE 4PM TO 9AM 0229-473609

ing, Mainland post & ins.: (A) £5.75 (B) £4.60 (C) £3.45 (D) £2.30 (E) £1.15 (F) 58p (ANC) 3 Day £10.35 Next Day £13.80, COD+ £2.30, Max UK post chg. £6.90 per 20kg/£500 All sales subject to our

All Prices include VAI. All sales suspect to our flade terms of trading.

WA.V.E. (Trade Dept. AF 1089)

Walney Audio Visual & Electrical Distribution

Juccleuch Street, Barrow-in-Furness, Cumbria, LA14 ISR
Tel: 0229-870000 (6 lines) Hours: Mon - Fri 10.00-5.00

# SLEEPING BATMAN **GODS LIE**

Maps and hints on how to get through the first three lands courtesy of the people behind the game, Oxford Digital Enterprises.

1. In the hut, pick up the pebbles and bowl, and head through the north door. Head north to meet the old man. Pick up any ammunition you find and then head through the east exit. Head south and find the molehill which will contain your back door key. Exit west and enter southern Caila, find the pool and fill your bowl.

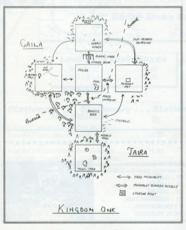
Go back to eastern Caila and head south until you see two trees close together - give the water to the trees and they'll let you pass into northern Taira. In the north corner you will find the bandit leader. Shoot him and take the map. Go to the eastern exit and you'll enter western Caila which contains a peasant's hut. Inside you'll find some mouldy cheese which you can feed to the mouse creatures who'll then let you pass.

Find the two-headed creature at the north end of western Caila and once you've killed it pick up the Circlet of Concentration which it will drop. This reveals a narrow path in the south east corner of

northern Taira (the hermit will tell you about the pass if you take the map back to him). The pass takes you through to southern Taira where a magic tree will transport you to the next kingdom.

2. In the first landscape you will meet Prince Gregor who will follow you about the kingdom. Travel east or south to one of the next landscapes (by going through one of the closely spaced trees at the east or south boundary), and you will find the entrance to the dwarven caves at the southern bound-





Fancy infinite energy? Then simply type in this listing.



- 10 DIM CODE (255)
- 20 FOR N=0 TO 151
- 30 READ AS: A=VAL ("&H"+AS)
- 40 CODE (N) =A 50 NEXT N
- 60 CHEAT=VARPTR (CODE % (0))
- 65 CALL CHEAT
- 70 REM TYPE IN THIS LISTING AND SAVE IT FOR FUTURE
- 80 REM INSERT BATMAN DISK AND RUN THIS PROGRAM 90 REM GAME SHOULD LOAD AS USUAL BUT WITH INFINITE TTURE
- 100 DATA 41FA 0014 43F9 0007 FE00 2F09 707F 22D8 110 DATA 51C8, FFFC, 4E75, 70FF, 2C78, 0004, 4EAE, FEB6
- 120 DATA 2200, 5280, 6700, 00A6, 4BFA, 014E, 3AFC, 0400
- 130 DATA 429D, 3AC1, 93C9, 4EAE, FEDA, 2ACO, 2A8D, 2B4D 140 DATA 0008, 589D, 4295, 4BFA, 00FO, 1ABC, 0005, 3B7C
- 150 DATA 0030,000A, 41ED, 0038, 2B48, 0006, 41FA, 00C0
- 160 DATA 7000, 7200, 43FA, 00CA, 4EAE, FE44, 4A80, 6600 170 DATA 005C, 700C, 99CC, 6118, 7002, 49F9, 0007, 0000
- 180 DATA 610E, 45EC, 01FE, 47FA, 0026, 613A, 4EEC, 000C 190 DATA 43FA. 00C2. 22FC. 0000. 0400. 22CC. 4299. 7230
- 200 DATA 93C1.3340.001C.3341.0012.4EEE.FE38.2057 210 DATA 217C, 5354, 4152, 06CE, 317C, 5400, 06D2, 45E8
- 220 DATA 01CC, 47FA, 000A, 34FC, 4EF9, 248B, 4E75, 43F8
- 230 DATA 0560, 2F09, 22FC, 1038, 1281, 32BC, 4E75, 45F9 240 DATA 0007, 060A, 47FA, 0004, 60DC, 4278, 00EC, 223C
- 250 DATA 038E, 05A2, 203C, 11FC, 0000, BOFC, 4D28, 6706 260 DATA 223C. 0374. 0596, 2180, 1000, 31BC, 303C, 1006
- 270 DATA 4841,2180,1000,31BC,4E71,1006,4ED0,7472
- 280 DATA 6163, 6864, 6973, 682E, 6465, 7669, 6365, 0000 MARK LAWRENCE

BASILDON

# VIGILANTE

Get onto the high-score table and enter your name as GREEN CRYSTAL to enable the cheat mode: then you can increase your lives by pressing F1 and skip levels by pressing F8. DAMIAN PENNEY LIVERPOOL



# CYBERNOID

П

To gain infinite lives simply type NECRONOMICON on the title screen. TONY COOPER WORTHING

# NAVY MOVE

The access code for Part Two is 786169 **CHRIS BAKER** POLEGATE

# KICK OF

When playing against a friend and you score a goal, shout 'YEAH!' really loudly and punch the air. This is very effective for upsetting your opponent well it works against my dad!

PAUL ROSS STUBBINGTON

# CHARIOTS OF WRATH

A simple tip to gain infinite lives. When first instructed to press the fire button, push the joystick forward. On the first breakout screen you have to collect all the diamonds to complete the screen. On the second breakout screen there are some dummy diamonds, so don't worry about collecting them all JAMES GOWE, LONDON

ary of both these levels.

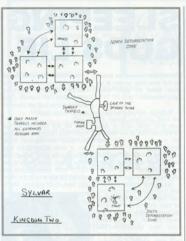
In order to climb down you will need a lantern, which will be dropped by a dwarf that you need to kill by the entrance. Go down into the caverns and head south. In the second cave you will find the spider's lair. You need to get inside to pick up a rope which you will need when you come to exit. Just off the next large cave to the south, you will find the Throne Room which contains the prince's crown

Now go back and give the crown to the prince who will give you some gold in return, then go back through the caves to their southern exit and in this landscape you should find a molehill which contains the Belt of Lung Capacity which, when combined with poison darts, makes the blowpipe a very useful weapon. Go south and you'll find a fountain in southern Sylvar which will transport you to the next kingdom.

### 3 DELANDA

There are five islands on Delanda. and you have the advantage of being able to see them in the distance. Note that every time you shoot a seagull it will drop two gold coins. The first thing to do is approach the ferryman and take the ferry to the southern isle (island 2). Kill one of the druids and pick up his golden sickle and then take it to the mistletoe tree at the centre of the island, where you can get some mistletoe. Find the dving peasant and see what he has to say.

Go to the west through the two stones (island three - which requires the mistletoe for transport) and go to the ferryman at the south and be transported to the fourth island. Here you will meet the princess who will give you a ring which will prove useful later on in the game. You will also find here the Sandals of Water Walking which allow you to walk to any island you wish. Go east to island five and find the vial which you need to take back to the dving peasant - it will fill up with blood. Then go back to island five and the well will transport you to the next island





# SPHERICAL

Here are some codes for you.

Password for Level 9 = RADA-GAST

- 19 = YARMAK 39 = ORCSLAYER
- 59 = SKYFIRE 75 = MIRGAL

And in two player mode: Password for Level 9 = GHANIMA

- 19 = GLIFP
- 39 = MOURNBLADE 59 = JADAWIN
- 75 = GUMBACHACHMAL ROLAND MORSSINK. THE NETHERLANDS





WE HAVE MOVED!
TONIC AUDIO,
Dept AMP, UNIT 20,
ACORN WORKSHOPS,
ACORN WORKSHOPS,
VAN ROAD, CAERPHILLY,
VAN ROAD, CAERPHILLY,
MD GLAM, CF8 3ED
0443 485432 10 am to 7 pm.
CALLERS WELCOME!
IL ORDER WITH CONFIDENCE



Cheetah MS6 timbral synth module 6 voice ONLY £265.00 MUSIC X FOR AMIGA Here at last IN STOCK BRILLIANTI

elocity sensitive ONLY £245.00 Comus Track 24 sequencer, very popular ONLY £75.00

We also stock printers, disk drives, monitors, loppy disks, disk boxes, peripherals and more is we haven't got it we can guickly get it for you We also specialise in DTP - come see us for a demo of Pagestream.

our friendly MIDI software & hardware specials Attari ST, Commodore Amiga, PC & Macintosh SEQUENCING, NOTATION/SCOREWRITING, SYNTH EDITORS etc.

Ring or write for our comprehensive catal You'll be amazed at the range!

27 SEPT-1 OCT 1989 EARLS COURT LONDON

PRINTERS, DISK DRIVES, MONITORS, FLOPPY DISKS & PERIPHERALS FOR ST, AMIGA & PC.

Intelligent Music PASSPORT ALESIS CASIO

Philip Rees

Stainbarg Hybrid Arts

Panasonic

J. ATARI



# π Δ

All Prices Inc Carriage & VAT All Goods Subject To Availability 24 Hour Despatch On Stock Items Access & Visa Welcome.

SFF

US AT

**PFRSONAL** 

5.25" Drive miga 2286 PC/AT Bride 5.25" Drive PRINTERS π A n stock

COMPUTERS

mmodore 1084S Colour Commodore 1084S Colour Monitor inc lead Phillips 8833 Stereo Colour Monitor inc lead Phillips 7502 Green Screen Monitor.

MONITORS

MODEMS Pace Modem + S/ware for Amiga

V21/23 Prestel BBS etc. 2000+ 1084S + XT | 20Mb HARD DRIVE DICK DRIVES DISK DRIVES

AMDRIVES 30Mb External Disk
Drive for AS00.
Amiga 500 Autoboot 20Mb
RAM expandation
RAM expandation
Disk Drive 100 Amiga 2004 20Mb PC
Amiga 2004 20Mb PC
Amiga 2004 20Mb Amiga
Disk Drive
Amiga Internal 3.5° Disk Drive
External Disk Drive for AS00
Microbotics A2000 Autoboot
48Mb Drive
External Disk Drive for AS00
with switch 20Mb HARD DRIVE migs 82000 only migs 82000 + 1084S below Monitor migs 82000 + XT Bridge 20Mb PC Drive migs 82000 + XT Bridge XT Bridge migs 82000 + XT Bridge migs 2088 PC/XT Bridge 5.25 Drive 6399.00 £1039.00 C1209.00 6249.00 6499 95 5.25" Drive
miga 500 inc TV Modulator
miga 500 + Mod. +
offware Pack
miga 500 + Philips 8833
lerio Colour Mon.
ommodore PC's £619.95 679.95 £389.00 MISCELLANEOUS Amiga S01 512K RAM/Clock Expansion £139.00 Microbotics MS01 RAM/Clock Exp for AS00. £129.00 Surge Protector 13A Plug-3-Way Adaptor £12.95/£19.95 minGEN low cost Genlock £113.85 PRINTERS
Karox 4020 Colour Inkjet ....
Citizen 1200 Parallel
Star LC-10 Parallel
Star LC-00 Colour Parallel
Star LC-24 10 24 pin Multi-dont
170:57 ops
All Oki 20 consumables norma SOFTWARE \$239.00 SOFTWARE
Defune Paint III.
Superbase Personal 2. Aegis Video Titler
Pro Video Plus.
Digiview Gold
Kindwords 2.
Pagestream DTP
X. CAD Designer
Workbench Extras V1.3
incl Manual
Lattice C V5 Video Effects 3D.
Lights Camera Action. PHONE £259.00 C239 00

Δ

π Δ

π

Δ

π

Δ

π

Λ

π

πΔπΔπΔπΔπΔπ OFFICIAL COMMODORE/AMIGA DEALER

\* All prices are inclusive of VAT at 15% ★ Carriage £5 (Express £10). Software and small items FREE

675.00

Delta Pi Software

Ruswarp Lane, WHITBY, N. Yorks. YO21 1ND Tel: 0947 600065 (9am - 7pm) ΔπΔπΔπΔπ

# HSV COMPUTER SERVICES LIMITED

23, Hampstead House, Town Centre, Basingstoke, Hants., RG21 1LG

### 3 1/2" DS/DD Disks Bulk - Fully Guaranteed 10 20 30

7.95 15.50 22.50 29.50 35.50 69 95

Lockable Disk Boxes 50 x 3 1/2 ... ...£5.95 100 x 3 1/2... ...£7.95

Accessories 3 1/2" Cleaning Kit ......£4.95 Amiga 500 Dust Cover .....£4.95 Amiga 1000 Dust Cover ......£9.50 Mouse Mat (Foam) ....

Stationery . . . Stationery . . . Stationery . . . 500 1,000 2,000 9.5" x 11" 60gsm Micro-Perf all edges €9.50 £15.95 True A4 70gsm Micro-Perf all edges €8.50 £12.95 £23.95 True A4 90gsm Micro-Perf all edges €9.75 £14.95 £27.95 True A4 100gsm Micro-Perf all edges €16.95 £31.95 (coloured - Cream, Blue, Grey or White)

1,000 £5,25	2,000 £9,50	4,000 £17,95
£5.75	£10.50	£19.95
£5.75	£10.50	£19.95
6.75	£11.95	£22.95
€4.75	€8.50	£15.95
	£5.25 £5.75 £5.75 6.75	\$5.25 \$9.50 \$5.75 \$10.50 \$5.75 \$10.50 6.75 \$11.95

**Credit Card** Hotline (0256) 463507

**Faxline** (0256) 841018





Orders under £8 in value carry a small order charge of £2

# S.D.C., 60 Boston Road, London W7 3TR Other branches at: 309 Goldhawk Road, London W12 8EZ

18 Market Square, Leighton Buzzard, Beds.

\* Unit 33-34 Rumford Shopping Hall, Market Place, Romford Essex

\* 675 Holloway Road, Archway, London, N19 OPEN TO THE PUBLIC 10am-8pm 6 DAYS

THE MOVIE OR CAPED CRUSADER ONLY £14.99

RING -01-741 1222 01-995 3652

0525 371884

# PRICE PROMISE

**ENQUIRIES** T RING 01-567 7621

CH	_	37	TOPPE	RS		FAN	ATI	ITE	COFF	三品	S
	PRICE	SAVING		OUR PRICE	SAVING	REIU	OUR	SAVING	- contract -	OUR	SAVING
A-Max	99.99	35.00	Star Wars Trilogy	15.99	9.00	Action Service	3.99	16.00	Dungeon Master	15.99	9.00
A-Max (with R.O.M'S)	209.99	40.00	Stunt Cars	15.99	9.00	Alien Syndrome	7.99	12.00	Empire Strikes Back	9.99	10.00
A.P.B.	12.99	7.00	Super Wonderboy	17.99	7.00	Backlash	4.99	15.00	Firestone	4.99	15.00
Action Fighter	15.99	9.00	Targhan	15.99	9.00	Billiards	4.99	15.00	Growth	2.99	17.00
Astaroth	15.99	9.00	Test Drive II (The Duel)	17.99	7.00	Bio Challenge					
Barbarian	15.99	9.00	Trivial Pursuits Genus	12.99	7.00		12.99	12.00	Helbent	4.99	15.00
Beach Volley	14.99	10.00	Vindicator	12.99	7.00	Bombuzal	8.99	11.00	Hothall	6.99	13.00
Castle Warrior	15.99	9.00	Voyager	14.99	10.00	Captain Blood	5.99	19.00	King Of Chicago	7.99	22.00
Charlots Of Wrath	15.99	9.00	Wrangler	12.99	7.00	Crash Garrett	3.99	16.00	Kristal	12.99	12.00
Chessmaster 2000	15.99	9.00	Xenophobe	15.99	9.00	Crazy Cars II	15.99	9.00	Lords Of The Rising Sun	20.99	14.00
Dominator	14.99	5.00							Manhunter in New York	12.99	12.00
Dynamite Dux	17.99	7.00	0.00	52 6	13	-2000	DOF	-	Operation Neptune	9.99	10.00
F16 Combat Pilot	15.99	9.00	528		) 7	THE B	25				
Falcon	21.99	8.00						•	Paomania	7.99	17.00
Falcon Mission Disk	12.99	7.00	Battle Chess		17.99	New Zealand Story		14.99	Peter Beardsleys		
Grand Prix Circuit	17.99	7.00	Bloodwych		15.99	Populous		6.99	Int.Soccer	7.99	12.00
Honda R.V. F. 750	15.00	9.00	Carrier Command Champ (The)		15.99	RAC Lombard Rally		14.99	Purple Saturn Days	9.99	15.00
Indiana Jones & The	14.99	5.00	Dark Side		15.99				Return Of The Jedi	9.99	10.00
Last Crusade			Dragon Ninja		14.99	Renegade III		14.99	Sky Fox	5.99	19.00
Journey	21.99	8.00	Escape From Drill		12 99	Rocket Ranger		17.99	Soldier Of Light	7.99	12.00
Kingdom Of England	15.99	9.00	Fire Brigade		21.99	Shinobi		12.99			
Last Ninia	17.99	7.00	Forgotten Worlds		14.99	Stormlord			Space Quest II	12.99	12.00
Leisure Suit Larry 2	21.99	8.00	Garfield Winters Tale		15.99	Talk To The Animals			Speedball	15.99	9.00
Licence To Kill	12.99	7.00	Gemini Wing		12.99	Temple Of Flying Saud	pers	15.99	Spidertronic	6.99	13.00
Monopoly Deluxe	12.99	7.00	Kick Off		15.99	Thunderbirds Time Scanner		17.99	Star Wars	9.99	10.00
Mr Heli	15.99	9.00	Kult		15.99	Trained Assassin		15.99	T.V. Sports Football	19.99	10.00
Populous: Promised Lands	7.99	2.00	Microprose Soccer		15.99	Vigilante Xenon II - Megablast		10.99	Teenage Queen	8.99	11.00
Powerdrome	17.99		Navy moves		17.99	Xybots		12.99	Triad	9.99	20.00
	10000	7.00	CTORYO	0.5401		07000	00 515		1100		100
Preditor	17.99	9.00	STORY S				SO FAR	3	Wanted	4.99	15.00
Rainbow Island Rainbow Warrior	15.99	9.00	ONLY S	15.99	riore +	Thunderbirds + Born	£15.99	n Hamine	War In Middle Earth	12.99	12.00
	15.99	9.00	Buggy Boy +	Battleships	mons +	+ Live	& Let Die	te riamer	Warlocks Quest	3.99	16.00
Rick Dangerous	21.99	8.00							Wilow	6.99	18.00
Robo Cop	14.99	10.00	PRECIOU			SOCCE	R SQUAI	)	World Class		
Shoot-em-up Con Kit	21.99	8.00	ONLY		A 15	ONLY	£14.99	100	Leaderboard	6.99	3.00
Skweek	14.99	5.00	Captain Blood + Xenon + C	Arkanoid II	+3	Hotball + Peter B	leardsley's So Manager II	+ 1900			
Sleeping Dogs Lie	14.99	10.00	ABION + C	mey cors		Pootball	manager II		THE REAL PROPERTY.		
Soccer	14.99	10.00	PREMIER CO	LLECTI	ON	COMPUTE	D LUTO T	24/0	TRIA	D	
Space Quest III	17.99	7.00	ONLY		ON	COMPUTE	K HITS 1	WU	ONLY		10
Spherical	14.99	5.00	Exolon + N Netherworld	lebulus +	200.0	Tetris + Golden P		hadow	Starglider + Barbaria Defender Of T	n (Psyano	sis) +

S.D.C. ORDER I Please send me the following Type of computer	FORM titles. BLOCK capitals please	1 20 123	AMIGA FORMAT, OCTOBER.
Title:		Amount	Address
	2011		
	STATE OF THE PARTY	02.013	
		00.012	Postcode
	Total England C	3	Tel No

Please Make Cheques and Postal Orders Payable to S.D.C.
Please add 50p P&P for orders under £5. Over £5 P&P is free. Europe please add £1.00 per disc. Elsewhere please add £1.50 extra per disk

# SWORD OF SODAN

How to get very nearly, but not quite, to the end of the hack and slash-em-up - after all, you didn't expect us to give the whole game away did you?

Level 1 - At the city's gates. To defeat the four guards, wait until they are pointing their staffs in the air and then jump into them doing over-head chops. Do this for all four guards and you should get through with most of your strength left

Level 2 - Between the city's walle

When the first spike goes down, jump over it, and jump again as soon as you land. Wait for the spike to go down again and jump over that one and jump again as soon as you land. Kill the guard using the same method as in level one - at the end of the level, make sure you don't stand between the clumps of spikes because they'll kill you instantly and the wizard will take great delight in laughing in your face.

Level 3 - In the city streets. To kill the axemen, duck and low chop. Keep moving forward and using this method and you shouldn't get hit. Jump over the barrels and at the end of the level keep overhead chopping the giant and you should decapitate him without taking a hit.

Level 4 - In the heart of the forest.

When you meet the two thugs, just duck and low chop and they should jump into your sword. At the end of the level use one power shield when fighting the scorpions because to kill them you must hit the claw on the end of their tails

Level 5 - In the land of the dead.

Jump over the rolling heads and duck and low chop to kill the zombies. Watch out for zombie spit when you are standing up. The zombies gradually need to take more hits to destroy them as you go through the level.

Level 6 - The fover of the castle craggamoor.

There are two holes on this level, so watch out! To defeat the wizard use one shield and jump into him and use a combination of overhead chops and low chops. Keep doing this until he dies them walk off and onto the next level.

Level 7 - Descend the stairs.

Walk forward a couple of steps then stand still and overhead chop. you should kill both the birds Once they are dead, walk forward and as soon as you get the wizard into view use a magic zapper to kill him off and proceed to the next level

Level 8 - In a passage deep. Jump over fireballs as they come. Keep walking forward on this level. Keep an eye on the top of the screen as blocks come down to crush you. When the fireballs stop. spikes will come to take their place so watch out for these as they kill you instantly. Keep moving at all times! When you come to the lava, there are three blocks you must iump onto to get past it. Timing is critical, so learn the pattern of movement of the blocks. Once over, there are more fireballs to jump and acid drops from the ceiling to avoid. Take your time dodging the acid drops or you'll get hit. At the end of the level you must hit the teeth of the statue to get past

Level 9 - In the catacombs. Walk forward and kill the four birds by overhead chopping them. When you come to the caterpillar-like creature, jump through it. Get the potion and you will be riding the beast. Walk backwards through the caterpillar and the beast will eat it and will be able to jump. Then walk forward. When you get trapped between two walls, water will start to rise, keep on jumping and the water will go back down and the walls will disappear. Keep on walking and you will come to a red wall, stab the red lines and when the rock on the top of the wall flies off - overhead chop it. You'll have to hit the rock three times and the wall will disappear. and carry you through to the next

Level 10 - The fover of the castle craggamoor. Just the same as level 6.

Level 11 - At the wizard's tower.

Destroy the dragon-like creature by low chopping it in the gut. When you get to the wizard jump into him and overhead chop. Keep doing this and you will be safe from his magic. After about eight chops the wizard will fire tons of blue fireballs at you...

Mark Beckett, Plymouth.

# COR

50 SMACKEROONIES!

All of us would like some free software. so here's how to earn yourself a voucher worth £50 to spend on those latest block bustin' games. If you have any maps, tips or pokes for recent games. then get them written down and sent to: Gamebusters, Amiga Format, 4, Queen St, Bath. BA1 1EJ. This month's lucky winners are: Gary crook, James Gower and Mark Lawrence

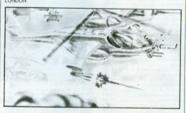
# SILKWOR

that they have different cheat modes because one magazine revealed the cheat mode before the game was even released! (The plonkers!)

Version one - hold down the help key and keep it pressed while pressing fire on the joystick to start the game. You will now have infinite lives and can move through the levels by pressing the numeric keys 1 to 0 and the minus key.

Version two - if you have the latest version of the game then attempting the above will reveal the following message: 'Congratulations, you have found the cheat mode....unfortunately it has been ZZAPPED!

If this happens go to the control selection page and type 'scrap 28' and then start the game. The effect is the same as above. DAN MARCHANT LONDON



# THE KRISTAL

Try these tips and make your life a little easier.

1. When fighting an opponent, move to the left of the screen and keep your finger on the fire button and the joystick up (head chops), and you should defeat him within minutes.

2. Defeat all the opponents in each planet then save the game (it will make it easy for you to complete the game) e.g. each time you start a new game load the saved game and then you don't have to fight any more opponents.

3. Here are the items that you can take from some of the characters.

Kring = 25 Skringles Princess = Ring of Belz Gloop = Invitation Beggar = Pommel Hippy = Flow Strell Noto = 25 Skringles Aunt Polly = 5 Multipep tabs Mervin = Transmitter CHRIS WEST **EGHAM** 

# PREMIER MAIL ORDER

I	TITLE PR	IC	E
١	3D Pool	11.	90
١		и.	99
ı	4x4 Off Road Racing	16.	99
ı	4x4 Off Road Racing Advanced Rugby Simulator . Advanced Ski Simulator	11.	99
ı		16.	99
ı	Airball	14.	99
ı	A-Max	34.	.95
1	A-Max with Rom24	19.	95
	Amira Gold Hits 1	16.	99
		12.	99
	Archipelagos	16.	99
	Armalyte	14.	99
	Baal	14.	99
	Ball of Power 1990 Ballistix.	14.	99
	Barbarian 2 Pal	14.	99
	Barbarian Pal	11.	99
	Bards Tale 2		99
	Batman The Movie	16.	99
	Battlehawks 1942	16.	99
	Beach Volley Bionic Commando	16.	99
	Blasteroids	14	99
	Blazing Barrels	14.	99
	Blood Money Bloodwych	16.	98
	Bombuzal	14.	99
	California Games	16.	99
	Captain Blood	19.	98
	Carrier Command	14.	99
		16.	99
	Chronoquest Chuckie Egg 2 Colossus Chess X	18.	99
	Colossus Chess X	15.	99
	Corruption	14.	99
	Crazy Cars 2	14.	.99
	Cybernoid 2	11.	.99
	Daley Thompson 88 Damocles	14.	99
	Darkside	15.	.99
	Denaris	16.	99
	Dominator	13.	90
	Dragon Ninia	15.	99
	Dragonscape	15.	99
	Driller	14.	99
	Dungeon Master	15.	99
	Eliminator	13.	95
	Emmanuelle	11.	99
	Empire	19.	90
	Empire Strikes Back	11	99
	Euro Space Shuttle	16.	.99
	F16 Combat Pilot	16.	99
		19.	99
	Fantavision	29.	99
	Fed of Free Traders	19.	99
	Fish	19.	90
	Flight Sim 2	26.	.99
	Flt Disc 7 or 11	13.	.99
		13.	96
	Flying Shark	14.	.99
	Foot Man 2 Exp Kit	.8.	99
	Football Manager 2	11.	.99
	Foundations Waste	.8.	99
	Frightnight	11.	99
	Fun School 2 (6-8)	14.	90
	Fun School 2 (over 8)	15.	.99
		15.	99
	Galactic Conqueror	4.	250
1	the state of the state of		
			11

TITLE	PRICE	1
Galdregons Domain.  Garfield Winter.  Garfield Winter.  Garfield Winter.  Gibber Path.  Garfield Winter.  Giber Path.  Garfield Winter.  Garfield War.  Garf	12.00	E
Sarfield	9.99	B
Garfield Winter	12.99	F
Gilbert Escape Drill	11.99	F
Frand Priv Sim 2	11.99	F
Guerilla War	14.99	B
Guild of Thieves	16.99	B
Junship	14.99	F
lawkeye	9 99	B
teroes of the Lance	16.99	B
lighway Hawks	11.99	F
follywood Poker Pro	16.99	F
tostages	9 99	55
lunt for Red October	14.99	S
lybris	19.99	S
kari Warriors	14.99	200000000
ndy Jones Adventure	16 99	0
ngrids Back	11.99	5
nt Karate +	16.99	S
t Came from Desert	19.99	5
I Nicklau's Golf	15.99	20 20 20 20 20 20 20 20
Jet	26.99	S
Joan of Arc	16.99	S
Joe Blade 2	14 99	20 00
Gel Off	11 99	5
Kind Words 2	34.99	5
Kings Quest 4	21.99	S
Cristal	17.99	re ce ce
ancelot	12.99	202
aser Squad	16.99	S
ast Duel	10.99	S
ed Storm	16.99	02 02 02 02
esend of Sword	14.99	9
eisure Suit Larry 2	19.99	S
icence to Kill	12.99	S
ombard RAC Rally	10.00	T
Manhatton Dealer	14.99	Т
Maria Whittaker	9.99	7
Mayday Squad	12.99	T
Menace	14.99	T
Millenium 2.2	16.99	i
Mortville Manor	15.99	7
Motor Massacre	13.99	T
Vavor Moune	16.99	T
Nebulus	17.99	Т
Netherworld	17.99	Т
New Zealand Story	16.99	T
Operation Normuz	14 99	1
Operation Wolf	14.99	7
Outrun	8.99	7
Outrun Europa	9.99	Į,
Pacland	11 99	LL
loostages all tunns for Red October hybris with the Common of the Common	11.99	Ţ
Paperboy	14.99	ı
Peter Beardsley	12.99	20000000
Phobia	14.99	1
Pioneer Plague	14.99	i
Platoon	14.99	1
Police Quest	16.99	1
Pool of Radiance	16.99	v
Parmania Paperboy Peter Beardsley Phantom Fighter Phobia Ploneer Plague Platoon Police Guest Pool of Radiance Precious Metal	15.99	v

Reach For The Stars... Real Ghostbusters....

TITLE PR	ICE
Realm of Trolls	16.99
Rebels in The Dark	11.99
Rebels in The Dark Red Heat Renegade 1 or 3	15.99
Renegade 1 or 3	15.99
Return of the Jedi	.9.99
Return of the Jedi	5 99
Robocop	15.99
Rocket Ranger	19.99
Rolling Thunder	16.99
Robocop Rocket Ranger Rolling Thunder Run the Gauntlet Running Man	15,99
RVF Honda	4.99
RVF Honda	14.99
Scorpion	14.99
Sentinel	11.00
Sentinel	14.99
Shadowgate	19.99
Silent Service	14.99
Silkworm	12.99
Skate or Die Skateball	17.99 17.99
Sleeping Gods Lie	14.99
Sleeping Gods Lie	16.99
Spaceracer	11.99
Speedball	11.99
Starfleet 1	19.99
Standlider 2	14 00
Stealth Fighter	16.99
Steve Davis World Snooker	12.99
Stealth Fighter Steve Davis World Snooker Storm Trooper Street Fighter	14.99
Strike Force Harrier	9 99
Strike Force Harrier Strip Poker 2+	.9.99
Super Hangon	16.99
Super Hangon Superbase Personal Superman	14 90
Sword of Sodan Talespin Tangled Tales Tech	17.99
Tangled Tales	14.991
Tech	13.99
Teenage Queen	11.99
Teenage Queen Test Drive 2 The Duel	21.99
Theatre Europe Thunderbirds	14.99
Thunderbirds Thunderblade	16.99
Tiger Road	17.99
Tiger Road	12.99
Titan	14.99
Tracksuit Manager	16.99
Triad Triad	18.99
Triad	12.99
Typhoon Thompson Ultima 4	11.99
Ultimate Golf	13.99
UMS Scenario 1	
UMS Scenario 2	.8.99
Univ Military Sim	14.99
Verminator	14.99
Victory Road Vigilante	10.99
Virus	12.99
Voyager W C Leaderboard W Gretzky Hockey Wanderer 3D War in Middle Earth	8.99
W Gretzky Hockey	19.99
Wanderer 3D	11.99
War in Middle Earth	14.99
Waterloo	14.99
Xenon	14.99
Xenon 2 Megablast	15.99
Xybots	12.99
Zak McKracken	10.99

# SPECIAL OFFERS AT £3.99 EACH

NAME	PRICE
Alien Strike	3.99
Challenger	3.99
City Defence	3.99
Fortress Underground	3.99
Jump Jet	3.99
Mike The Dragon	3.96
Phaianx 2	3.96
Quantox	

# SPECIAL OFFERS

NAME	PRICE
Armageddon Man	
Alien Syndrome	7.99
Blackjack Academy	
Bermuda Project	
Bombjack	7.99
Craps Academy	7.99
Crazy Cars	7.99
Dark Castle	7.99
Deja Vu	
Fernandez Must Die	
Galactic Invasion	7.99
Gee Bee Air Rally	7.99
Gold Runner	7.99
Hacker 2	7.99
Hellfire Attack	7.99
Insanity Flight	7.99
Incredible Shrinking Sph	ere7.99
Manix	7.99
Mindfighter	7.99
Nigel Mansell GP	7.99
Nord And Bert	7.99
Romantic Encounters	7.99
Skychase	7.99
Sea Stalker	7.99
Seconds Out	7.99
Soldier of Light	7.99
Spellbreaker	7.99
Stock Market	7.99
	7.99
Tetra Quest	7.99
Tetris	
Thexder	7.99
Three Stooges	7.99
Tracers	7.99
Typhoon	7.99
Vixen	

# ELECTRONIC ARTS

Winter Olympiad 88. Zynaps...

14.99	OI DOLLE OIT DIG
13.99	NAME AMIGA
8.99	Archon Collection8.99
14.99	Arctic Fox8.99
14.99	Bards Tale 1
14.99	Battlechess
10.99	Deluxe Music Con Kit
12.99	Deluxe Paint 349.99
12.99	Deluxe Photolab49.99
18.99	Deluxe Print 249.99
15.99	Deluxe Production89.99
8.99	Deluxe Video49.99
19.99	Ferrari Formula 116.99
11.99	Fusion
14.99	Interceptor16.99
14.99	Marble Madness
14.99	Populous
14.99	Populous Promised Lands8.99
15.99	Powerdrome16.99
12.99	Skyfox 2
16.99	Test Drive
16.99	Word Tour Golf8.99

Please send cheque/PO/Access/Visa no and expiry date to:-Dept AF10, Trybridge Ltd, 8 Buckwins Square, Burnt Mills, Basildon, Essex SS13 1BJ

11.99 16.99 11.99

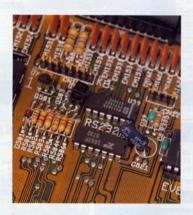
16 99

Please state make and model of computer when ordering. Postage and packing included in UK on orders over £5.00. Orders less than £5.00 and Europe add £1.00 per item.

Elsewhere please add £2.00 per item for Airmail.These offers are available mail order only.

New releases sent on day of release. Tel orders: 0268 590766

# **LEARNING TO LIVE WITH**



As the computer ceases to be a privilege for the few and begins to truly become widely accessible. DAMIEN NOONAN investigates the computer in the classroom and the Amiga's role in education.

S omewhere in Dorset, 9.30 | manoeuvre three times to come to on a rainy September morning. A crucial breakthrough is about to be made in the field of computer-controlled robotics. As the programmers look on, a small, wheeled robot inches with great precision across a smooth floor. It pauses exactly on a marked station, then turns through an angle | because these programmers are of 90 degrees: repeats this six or seven years old, working in

rest precisely where it started.

The experiment is declared a success, and excitedly the programmers discuss their achievement, the delight obvious on their faces. Although this is no world first, no giant step for mankind, to them the satisfaction is intense:

"You wouldn't teach children without telling them how to use a pencil and paper, would you? Not just yet, at least\*

a primary school, and they have just written a computer program that works. Many of us would be pleased to be able to do the same: but can't, because we were educated in the days when, unless you were being trained to work with these arcane devices, knowledge of them was considered obscure and irrelevant.

Nowadays, even more so than .

WORLDWIDE SOFTWARE 1 Bridge Street Galashiels TD1 1SW

# WRLDWIDE ·SOFTWARE.



Commodore Amiga Software

le Drago on Ninja on Lair 1 Meg aruelle re Strikes Back 16 Combat Pilot 16 Falcon alcon Mission Disk errari Formula On-ire Brigade 1 Meg Firezone Flight Simulator 2 Fit Sim Japan Scenery Disk Flying Shark

North, Scotland,

N Ireland 0896 57004 (24 hours)

nini Wing ert Escape Drill.

Commodore Amiga Software Herces of the Lance High Steel Hollywood Poker Pro Hostages Human Killing Machine Impossible Mission 2 Indy Jones Last Crusade Actio Jaws Joan of Arc Joe Blade 2

Commodore miga Softwar

Fast Delivery On All Stock Items By 1st Class Mail in UK.
Special Overseas Service By Air Mail Worldwide.
Credit Card Orders Accepted by Phone Or Mail.
Overseas tel no: Nottingham 225388
Wales 0602 252113

Credit Card Order Telephone Lines Leaderboard Collectic Led Storm Legend of the Sword Legend Lessuresuit Larry Licence to Kill Lombard RAC Raily Lords of the Rising St Manhurder New York Mayday Squad Menace Microprose Soccer Manager 2 Manager 2 Exp Kit in Worlds Night School 2 (6 to 8 yrs) School 2 (aver 8) School 2 (under 6)

Commodore
Arrica Software
Top Stream
Top Stream
Top Control
Top Co Wanderer War in Middle Earth Waterloo Wagne Gretszky Hockey Wec Le Mans Werd Dreams Western Europe Scenery Disk

Please make cheques or postal orders payable to WORLDWIDE SOFTWARE All prices include postage and packing in the UK.

ADVERTISED PRICES ARE FOR MAIL AND TELEPHONE ORDERS

10 X 3.5" DS/DD H/ C

31/2 DS/DD 10 INC PLASTIC STORAGE **82 XOB** 

# 51/4" DS/DD

25 50 100 £7 £12 Inc Sleeves & Labels

Disks certified 100% Error Free

31/2" DS/DD

25 50 100 200 400 600 720k £17 £31 261 £118 £230 £344 880k £33 £64 £123 £240 £355 Inc Labels

DISK BOXES

31/2 or 51/4 Capacity 50 100 £3.25 £5.75 Add C2 PRP if not ordered with disks

Prices Include VAT & Carriage 31/2" Disk Labels 100 £2.50

1000 610 State either coloured or white tractor feed

SAME DAY DESPATCH NO QUIBBLE GUARANTEE!

P.S. New low prices in Amigas - Phone

**WESTONING LTD Dept AFT** 12, Sanderson Road, Westoning, Bedford MK45 5JY Tel: (0836) 775060 (0525) 718668

# QCDUST 01-803 089 Computers

01-803 0893

Mail Orders to:- Amiga Dept, 55 Harron Drive, London N9 9EQ

AMIGA

Software Pack 1 Expansion Music Pack Pack Pack A 500 As pack 1 As pack 1 + Music X + Free Modulator 1/2 Meg RAM + £230 software + Dragons Lair + Photon Paint €479.99

ALL OUR AMIGAS COME WITH-

Mouse, power supply, Workbench 1.3, Workbench extras, Tutorial, BASIC, Manuals

100% Quality 3 1/2" DS/DD £7.95 50 £35.99

10 DS/DD disks, storage box, Disk drive

onix Speedking (Auto) €8.99 Conix Navigator £10.50 Falcon Misson Fine Brigade F.O.F.T Forgotten Worlds Fusion Technologies Fusion Forgoon Works
Fusion
Galdregors Domai
Gemini Wings
Grand MonsterSia
Grand Prix Circuit
Gunship
Hate
Highway Patrol
Iron Tracker
1.S.S.
Indiana Jones
Inferceptor
Kick Off
Kick Off

Kick Off Kult

Lancaster 12.79
Last Ninja 2 16.79
Leisure Sult Larry 2.16.79
Licence to Kill 12.79
Londs of Rising Sun 18.90
Manhunter N.Y. 14.50 Lords of Rising Sun. 18.90 Manhunter - N.Y. ... 14.50 Microprose Soccer ... 15.79 Millenium 2.2 ... 16.79 Mr Heli ... 15.79 New Zealand Story ... 15.79

MISC

Spherical Star Wars Trilogy

28<sup>A</sup> Westerham Avenue, Edmonton, London, N9 4BU.



• with school dinners, it really is chips with everything. Every school in the country by now possesses or has access to a computer: most Universities and places of further education could probably not function without them. Kenneth Baker's infamous. National Curriculum has a place for them. The educational market is now possibly one of the key tar-



gets for computer sales. But the important thing is this: that as the deducators themselves become educated, they are beginning to realise that the computer is not just a box of tricks, a buzzword, or a messainic changer of the whole of society. Rather, it is a cross between a useful tool and a useful medium, just like a pencil and a piece of paper. And you wouldn't teach children without telling them how to use a pencil and paper, would you? Not just yet, at least...

In any of us know that computers are used in schools. Fewer of us know exactly how they are used, or why. The aim of this article is to discover why computers are used in education, from the basics of primary school level right up to the most advanced resent at Universities: and to find out where the Amiga fits in.

One thing that almost everyone knows is that the BBC, now

"How long will it be before the BBC loses its grip, and will another machine ever replace it in a position of monopoly?"

an aged machine, has over the last ten years or so enjoyed a unique stranglehold over schools, and the primary school market in particular. Having been dominated by the dear old Beeb for so long, this market has developed an inherent conservatism, much of which is software dependent. At the same time as, and often in tandem with, the producers of BBC software, teachers have learnt what they need to best bring out children's abilities and •

 develop their computer literacy | as well. A good deal of this software has become 'industry-standard' for teachers, so much so that buying of software is centralised at LEAs and training courses are geared towards particular programs. Beating the Beeb will not be easy. But the reasons are, in many ways, far from being retrogressive or reactionary.

The positive side is that teachers would be reluctant to move away from the BBC because so much of the software written for it has proved so very useful. It has been developed in response to the learning of the educators to provide much more than even the



■ The Archimedes is already making inroads into schools.

early proponents of the computer in education would have imagined. The most fascinating thing about computers in education is how much more you can do with them than anyone ever realised...

he field of education is, for simplicity's sake, usually broken down into three main areas: primary (roughly five to eleven years of age), secondary (twelve to sixteen) and further education (colleges, universities and the like). This tends to gloss over certain other areas, such as preschool and special needs, but you can't have the world in five pages.

The primary school scene is in many ways the most interesting. The software developed for use with the BBC has already set the pace, with some remarkable ideas. The impression we often get of 'educational software' is of weak variations on painting, spelling and sums: generally about as much fun as times tables ever were. None at all.

Primary school children can hope in the near future to have a computer in each classroom, but currently they tend to be lucky to use one for a few hours each

### THE HEART OF THE MACHINE



■ The 4D heart scan system.

currently being undertaken using the Amiga is a project to develop a 4D ultrasonic imaging system to display a complete picture of the man heart. This work is being carried out at Imperial College, London, a university famous for

scientific research.

The innovators behind the project are software expert Doctor Habib Talhami, Harold Wilson, developer of the ultrasound transducer used in the project, and a

cardiologist from a leading Londo hospital. In real time the system will scan and build an image of the heart from ultrasound signals. The whole thing will be ready for use in many thousands of hospitals within two or three years, replacing older 2D systems for analysis of the structure of the heart and of blood-flow within it. The Amiga is being use for the benefits brought by its graphic capabilities and the PC compatibility provided by an AT Bridgeboard.

week. The children normally work in groups of two or three, which fits in well with the current educational trend for discussion and mutual problem-solving within small groups. A logical problem in an adventure game, for instance, can provide a good opportunity for a discussion amongst classmates and hopefully a reasoned conclusion: although heated arguments aren't necessarily seen as

So how to compete? Well, one

point for competition is obviously

price. Currently, a BBC Master with

colour monitor will cost a school in

the region of £550: a similar A3000,

around £700. The Amiga A500 is

available to schools for £599.

a bad thing, so long as they stop short of one kid flushing another's head down the toilet.

The general rule of thumb seems to be that you should never underestimate the adaptability of children. The major uses of a computer in a typical primary school are surprisingly advanced. even from the age of five. A prime example is Logo, a simple programming language which even \$

Even now, schools are buying BBC BBC micro" and "the latest and Masters, but 8-bit technology is now way past its sell-by date. The two questions are simply how long will it be before the BBC loses its grip. and will another machine ever replace it in a position of monopoly? Whether any single machine will ever gain the dominance of the BBC is very much in doubt. Currently, there are four main contenders in the race to bring less-than-primitive technology into the classroom: RM, with the Nimbus, Acorn with the Archimedes almost painful. A3000, Apple with the Macintosh. One thing and, of course, Commodore, The Atari ST has never really been a

competitor in this field. Acorn still has one major ace hidden up its corporate sleeve: the name BBC. The A3000 is already

1

most powerful addition to the BBC family", taking full advantage of schools' familiarity with the Acorn range. The Archimedes is already proving to have a high profile: "top of the computer wish list for both primary and secondary schools" according to Acorn. And at least one teacher I spoke to already perceived the A3000 as being a transition phase from the old RRC to that desired Archie. The sound of wool coming firmly down over eyes was that the

Archimedes and the Amiga both share is a BBC emulator, intended to smooth the path of upgrades for Beeb-owning schools. The Beebulator for the Amiga was developed by Ariadne

Commodore's encouragement and But price is not the only factor in support as part of their developing competition. What counts is essenstrategy to sell to schools. Although tially the same group of factors that it is a remarkably fine product, the influence any other potential comproblem with it is that it is unable to puter buyer: performance for the run any BBC software that is not price, flexibility and the availability written in Basic, which really means of decent software. everything that is of any use.

The Amiga is already years ahead in many of the areas that schools will use computers for. such as paint packages, computeraided design, word-processing and DTP. It allows technical knowledge to be developed using a whole range of different operating sys-

> tems and programming languages. It can offer opportunity for innovation in such esoteric subjects as 3D animation and video. And with the push from Commodore to develop in areas of traditional primary school computing support, such as the Amiga Logo, it can take the Beeb on its own ground.



schools as "the new

**BEATING THE BEEB** 

# AAAN SOFTSELLERS 6 BOND STREET, IPSWICH, SUFFOLK IP4 1JB

MAIL

TITLE			COMP PRICE	Name:			
			Carrie Carrie Scientists	securing on production of cut-off sup-		10.00	70.0
ystal	19.99	19.99	Not all titles released at time of going	L ORDERS MADE PAYABLE IST & PACKING FREE IN U.K. payabilishing and price change without of to priess. Shop prices may vary, but per recounts on production of out-off slip	Xenon 2	15.99	19.9
ick Boot	16.99	12.99	OVERSEAS C1.50 per item. Subsect to	PST & PACKING FREE IN U.K. availability and price change without	W.E.C. Le Mans	13.99	16.9
an Of Arc	13.99	17.99	CHEQUES & POSTA	ORDERS MADE PAYABLE	War in Middle Earth	12.99	12.9
lestation	16.99	16.99			Voyager War in Middle Earth	13.99	16.9
ection n Tracker	12.99	12.99	QS Turbo Joystick £9.95		7.95 Vigilante	10.99	15.9
noe	13.99	16.99	Cheetah 125 Joystick £6.95		5.95 UMS 2 Ultima V	15.99	15.9
fiana Jones (US Gold)	13.99	17.99				13.99	13.9
arceptor	17.99	17.99	Mouse Mat £4.95		3.95 Trivial Pursuits (Family Edition)	16.99	16.9
Shot	13.99	13.99	4 Player Adaptors £4.95		2.95 Thunderbirds TV Sports Football	15.99	19.9
and Of Sharlow	17.99	17.99	Joystick Extendors £4.95				15.9
oes Of Lance	17.99	17.99	10 3 1/2" Blank Discs £9.95	Konix Navigator Joystick £1	11.95 Sleeping Gods Lie	15.99	15.9
0	13.99	13.99	E	40.00	Super Wonderboy	13.99	16.5
nes Summer Edition	15.99	13.99	CITIZEN	20D PRINTER 149.95	Super Scramble Simulator	13.99	13.1
ship	15.991	15.99	-		Starwars Compilation	16.99	16.1
nd Monster Slam	13.99	13.99	Cumana 1 meg	£109.95	Shadow Of The Beast		21
regons Domain	12.99	12.99	EXTER	NAL DRIVE	Sword Of Twilight	12.33	17
Blood ts (Compilations)	12.99	12.99		200100	Street Fighting Man	12.99	12
ini Wing	12.99	12.99	Monochrome Mo	nitor £99.95	Shinobi Street Fiebling Man	12.99	12
	17.99	17.99	ATAI	RI SM124	Stuntoar	15.99	15
nt Night	12.99	12.99	Colour Monitor	£299.95	Story So Far 3	12.99	12
ball Director 2 otten Worlds	12.99	12.99	Colour Monitor	E299.95	S.T.O.S. Story So Far 1	19.99	12
ball Manager 2	12.99	12.99			Steve Davis Snooker	12.99	12
ari Formula One	17.99	17.99	21 Games and J	oystick £449.95	Starolider 2	15.99	16.
on Mission Discs F.T.	13.99	13.99 21.99	ATARI 1040S	TFM SUPERPACK	Space Quest 3	19.99	19
00	16.99	19.99			Skweek	13.99	13
Of Hercules Stealth Fighter Combat Pilot	15.99	15.99	0	149.95	Silkworm	12.99	12
Stealth Fighter	15.99	15.99	Business pack with databas	e, spreadsheet and wordprocess	or S.E.U.C.K	19.99	19
Of Marculae	15.99	15.99	ATARI	1040STFM	Rainbow Islands	15.99	15
amite Dux	13.99	16.99			RS.R.	15.99	15
ken	19.99	19.99	With Modulator	£399.95	RVF	15.99	15
Fusion	13.99	13.99	ATARI	1040STFM	Running Man	15.99	16
on Spirit	13.99	12.99			Rocket Ranger	13.99	19
dnought ons Tomb	12.99	12.99	HUSIC III.		Robocop Rocket Ranger	13.99	16
peon Master Editor	7.99	7.99	zo Games and Busine	ss Organiser, 1st basic an	d Renegade Rick Dangerous	15.99	15
geon Master	16.99	16.99	ATARI 52051	FM POWERPACK		13.99	16
ons Lair		29.99	ATABI TOOLS	TH DOWEDDAO"	Quest For Time Bird	13.99	19:
on Ninja	13.99	16.99	1 mag maemar c	1170 .209.93		12.99	12
xe Paint 3		59.99	1 meg Internal D		Panic Station	13.99	13
xe Music		49.99	ATAR	520STFM		16.99	16
xe Monopoly	12.99	12.99	Cumana i meg	199.95	Predator Passing Shot	13.99	16
as Elte	17.99	16.99	Cumana 1 meg	NAL DRIVE £99.95		19.99	19
riots Of Wrath	16.99	16.99	FVYFR	NAL DRIVE	Premier Collection (Compilation)	19.99	19
tinental Circuit	12.99	12.99	Colour Moritor	L249.95	Precious Metal (Compilation)		16
fict Europe	16.99	16.99	Colour Monitor	C249.95	Powerfrome	9.99	9
M	13.99	16.99		10845	Populous Data Discs	17.99	17
fornia Games	13.99	16.99	5.00-50-5		Pools Of Radiance	17.99	17
zy Cars 2 de Warrior	16.99	15.99	Standard	£139.95	Police Quest 2	15.99	15
mic Pirates	12.99	15.99	A501 I	XPANSION	Paperboy	12.99	12
os Strikes Back	13.99	13.99			Paciand Pacmania	12.99	12
rier Command	15.99	15.99	monocrating in	K99.99	Oriental Pacland	15.99	15
nber	POA	POA	monochrome m		Outrun Europa	10.99	10
sch Volley	13.99	16.99		21900	Operation Wolf	13.99	16
odwych od Money	16.99	16.99			Nevermind	16.99	16
mark	16.99	16.99	Colour Monitor	Pack £599.95	North And South Neuromanoer	12.99	12
Challenge	16.99	16.99	AMIGA	500 + 1084\$	New Zealand Story	13.99	16
nan (The Movie)	13.99	17.99			Matrix Marauders	16.99	16
		16.99		449.95	Murders In Venice	15.99	15
barian 2 (Psygnosis)	16.99	16.99	disc wallet and s	pritz graphics package 449.95	Majic Johnson	12.99	12
parian 2 (Palace)	13.99	13.99	Air miles pack with 50	free air miles, three gam	es, Mr Heli	15.99	15
nce Of Power 1990 sticks	15.99	15.99	AM	IGA 500	Menace Microprose Soccer	13.99	13
	13.99	13.99			Livernool	15.99	15
on Fighter on 1 or 2 (Compilation)	15.99	15.99			Last Ninja 2. Lost Patrol	16.99	16
8	13.99	13.99	C	369.95	Lords Of The Rising Sun		19
aroth	16.99	16.99	AM	IGA 500	Lombard R.A.C Rally	16.99	16
orne Rangerhipelagos	15.99	15.99	UK MA	NLAND ONLY.	Leisure Suit Larry 2 Licence To Kill Lombard R.A.C. Rally	13.99	19
		19.99	ALL OUR HARDWARE INC	LUDES VAT AND FREE DELIVING NUMBER OF THE PROPERTY.	VERY. Kult	15.99	15
08							
ools	15.99	AMIGA 15.99	HAI	RDWARE	Keep The Thief	ST	AMI

TITLE	COMP	PRICE
		100
	100000000000000000000000000000000000000	W. C.
		Mark Control
	TOTAL COST C	

AF OCTOBER



Cheques & Postal Orders payable to SOFTSELLERS.

# **16 BIT CENTRE**

ALL PRICES INCLUDE VAT AND COURIER SERVICE

CALLERS AND MAIL ORDER WELCOME

Open 9.00am to 6pm Monday to Saturday



**CREDIT TERMS** NOW AVAILABLE

Example - Amiga A500. £15.03 per month over 36 months with a 10% deposit of £34.00 COMMODORE A501 RAM EXPANSION with clock ONLY £115.00

AMIGA A500

ROM + WORKBENCH 1.3 Mouse, Modulator, Leads

ONLY £349.00

### PRINTERS

TOTAL SECTION AND ADDRESS OF THE PARTY OF TH	SECTION OF PARKETY AND
Star LC 10 Colour	£199.00
Star LC-10 Mono	£159.00
Star LC-24/10	£299.00
Citizen 120D	£139.00
NEC P2200	£299.00
Epson LQ-500	£299.00
Citizen Swift Colour (24 pin)	
All printers supplied with	1.8M lead

worth £7.99

### HARDWARE

Amiga B2000, ROM 1.3	£950.00
Philips AV7300 TV Tuner	
Futuresound 500	
Amdrive 50M Hard Disk	£465.00
Cumana 3.5 inch Disk Drive	£99.00
Minigen	£105.00
Philips 8833 stereo monitor including le	ad£219.00
Commodore 1084 monitor including lead	d£199.00

Please phone for other hardware prices

### SOFTWARE

The Works	£73.00	Superbase Professional	£159.00
Lattice C V5	£165.00	Kind Words V2	
Publishers Choice	£79.00	Workbench 1.3	£14.95
Falcon Mission Disk	£16.50	Audiomaster 2	£55.00
Deluxe Paint III	£65.00	Aguisition 1.3	£150.00
XCad Professional		Professional Draw	£115.00

### **JOYSTICKS**

Euromax Pro	£11.50
Zoomer	£28.00
Quickshot II Turbo Konix Navigator	£9.95
Konix Navigator	£12.99
F5 Fantastick	£5.00
iCrystal Turbo	
L	

	BLANK DISKS	
3M DS/DD Box of	f 10	£12.95
Sony DS/DD Box	of 10	£12.95
Unbranded DS/D	D 10	£9.45
	D 50	
Unbranded DS/D	D 100	£79.00

## **AMIGA PACKS**

Amiga A	500 + A501 DPaint III.	£499.00
Amiga A	500 + Philips 8833 Stereo Monitor (no modulator)	£549.00
	500 + Tenstar Pack, Sonix, Photon Paint	£399.00

All Amigas include Mouse, Power Supply, Manuals, Modulator, Workbench 1.3 and Kickstart 1.3 Unless stated otherwise

# **16 BIT CENTRE**



Unit 17, Lancashire Fittings Science Village Claro Road, Harrogate HG1 4AF Tel (0423) 531822/526322



THE PRIMARY PROJECT

npts Com making to break into the ducational market w the Amiga is, quite na rally, that stronghold of the BBC, the pr school. There are roughly 25,000 primary ols in this country, hich represents a subitial market, catering for children up to the age of eleven. The prob n for Commodore is simply how to gain the dence of this market. Their answer is the

Primary Project. The Project has supplied Amings 500s free or at cut-down prices to about 20 schools across the country. The idea is that teachers can then begin to appreciate the benefits of this machine, and offer their criticisms as

well as a certain amount of praise. Any short-comings the machine has are likely to be in the amount of a software available which complements or reproduces things already in use on another compute, so Commodore, will use the criticisms to direct list further exploits into developing software for respond to the needs of the market.

The positive reactions, meanwhile, will no doubt be used as the basis for a campaign to encourage other schools to buy the successes of their counterparts with the machine. Eventually, a report on the findings will be published, but currently the Project, which has been running

since the beginning of the year, seems to have made good headway. Responses from teachers have been enthusiastic: the Amiga has been used mainly with paint packages such as *DPaint Band Words*, which also includes basic DP.
Teachers have said forms

a great discussionpoint – discussionbeing one of the keywords of modern primary education – and has encouraged expression and enthusiasm in the children. The Primary Project has been extended to cover more schools, and looks set to be a great success. More news is



■ The Amiga in use during the Primary Project.

 the youngest children use to control a robot 'turtle', to learn the concepts of geometry and to print 'Spirograph'-like patterns.

Graphics and paint packages allow the children the fun of colourful creativity: while word-processors, with fonts that resemble the teacher's clear, unjoined-up handwriting, mean that they can print their efforts and illustrate them to make picture-books.

"The computer does not work best when it is stashed away... instead, it is made available in ways that are relevant"

Some word-processors are capable of organising pieces of a story into an interactive adventure game, and adventure games themselves are very popular, specially written to provide a variety of linguistic, logical and mathematical problems to provide a challenge for the chidren.

Databases are another significant use, but once the relatively mundane subjects of information storage and retrieval are covered, the possibilities for stretching the imagination and encouraging interpretive thought are a shade limited. Which is far from true of other software. Perhaps you have to see it to believe it. but programs in use in the primary schools are constantly entertaining and pleasing, and the satisfaction as well as learning derived by the children is obvious. When the Amiga is supported by programs of this standard, preferably as direct translations of packages that teachers are already familiar with, it will stand a good chance.

he primary school is a he primary survey unique case, because of the way in which it demands programs that have been developed specifically to meet its needs. It is specific, and conceptual. By the time children reach secondary school, their knowledge has developed to the extent where the Amiga in its familiar guise with its familiar applications is at the right level: the skills which the children are expected to develop are essentially those which they will be expected to use when they reach the outside world. Less conceptual, more practical. The computer, as it is in many training situation, is  essentially a simulator. Wordprocessors are becoming commonplace as a tool in schools. and -desktop publishing systems are rapidly making a place for themselves. An obvious use for a computer is in the art department, to exploit the potential for entirely new ideas beyond the capability of normal media and the flexibility and relative cheapness of a virtual medium: if it doesn't really exist, it can't cost money. Desktop video and animation work are a logical next step, and again the Amiga is more than flexible enough to support these more advanced roles.

One lesson that is slowly being learnt from the fine example set by primary schools is that the computer does not serve best when it is stashed away and compartmentalised. The awareness of secondary schools that their pupils are much closer to the job market has tended to encourage them in the belief that computer

"We are now already into a phase where the daily use of computers is becoming the norm."

Peter Talbot



西西 墨 阿 紫翅 5 月

PETER TALBOT

■ Peter Talbot celebrates an Olympic deal with Tessa Sanderson.

"In this business, you don't get two chances... We're going to be very aggressive" says Peter Talbot, National Sales Manager for Local vernment and Education at Commodore UK. He doesn't mean, however, that he plans to physically threaten potential buyers into taking the Amiga: he simply has a positive attitude.

When he joined Commodore in June 1987, the firm had no idea who would want to buy their machines. After a six-month evaluation, they realised that the education market was one of the most volatile markets, and decided to concentrate their energies there. With the imminent demise of the BBC, there was "a need for something to fill the vacuum." In April '88 a three-year plan, the Education Initiative, was launched to sell the Amiga, concentrating on three areas. Firstly, to found a network of educationally aware dealers: secondly, to ensure favourable

pricing: and thirdly, to encourage the development of any software that would be needed, after discussion with LEAs and schools. Although plans for the increasing decentralisation of power are leading to a more flexible market as 'independent schools' come into existence - "schools are now so much more commercially aware" generally buying decisions are made at County level. A number of counties, for instance Lothian and Somerset, already order the Amiga in quantity. The Amiga is often bought for art and design roles, and though the DES itself has acknowledged the machine's performance and val in this field, the government will not provide money for Amiga as long as

they see it as being relevant to just one discipline.

And for the future? Well, rather than find a gimmick, like the BBC association which made Acorn's machine a standard, Commodore will ontinue to "make it clearer to more people" how good the Amiga is by doing more of what we do now". We are told to expect exciting nnouncements soon, at the PC Show. "Watch this space," says Peter. studies should be a separate. serious subject, carried out in a room set aside for just that topic. where the pupils can learn applicable programming skills Instead, the rational approach, encouraged by the relative cheapness and availability of modern machines, is to make computers available to all pupils in ways that are relevant to the individual subiect under study.

eanwhile, in universities, polytechnics and further education colleges the situation again reverts to an extreme. In this context, the uses of the computer are very often in pioneering research and development roles. so the work they

■ The Amiga is already a sight in art and design departments around the country.

are being made to do is entirely unique and very advanced. Here. quite naturally. the Amiga is making its mark in many of the ways that you

would expect from its performance in fields of an advanced nature.

In particular its strengths in the graphics department and in multitasking make it ideal for the presentation of graphics-based information, as in the Imperial College heart project. The variety of operating systems gives it another strength, being exploited by such projects as the UNIX networking environment currently in use at Nottingham University. Many, many colleges now use the Amiga for the teaching of art and design, as Paul Cowen's work illustrates so well.

ooner or later, the technol-S oner or later, the san. The users of computing in education are currently way ahead of their masters as they apply the solutions they have developed in response to their own needs. The new National Curriculum attempts to grasp the concept of Information Technology, but so far seems to fail to quite comprehend it. As the government comes under fire for slashing the IT budget from £13.8 million to £8.28 million, they fight back with plans to train all teachers in computer use and claims that they intend to direct money away from Computer Studies use and retarget it towards individual sectors of the National Curriculum.

Are they getting the message that the computer is not an object to be studied, but a tool to be used, and an increasingly unavoidable one at that? Let's hope so. We shall see.

### **ROBOTS, TURTLES** AND SURROUTINES

Logo is one of the most fascinal ing examples of the use of the computer in primary schools. Currently under development for the Amiga, it is a complete programming language originally implemented on the BBC.

Logo introduces children to the concept of program instructions by allowing them to order a 'turtle' to move around the screen. Alternatively, this turtle and its ways can be made more visual by using a small robot turtle which moves around the floor. Initially, the instructions it will receive are to turn by a certain angle and then proceed a certain number of steps. On the computer screen a line is drawn by the turtle as he moves, so before long the turtle is drawing simple shapes: for instance, he might be ordered to walk forward ten steps then turn 90 degrees. If this is repeated three times, he has drawn a square

Already, the concepts introduced in a totally painless way to the children are fundamental maths. Vectors and angles are all learnt about by five and six year olds in such a way that they grasp the concept rather than simply learn the name. But before long, the children are learning to combine operations into procedures and define a procedure by its own name: our four separate square-drawing above, for example, can be combined into a procedure called 'square'. Syntax and spelling must all be correct, or the computer returns that it doesn't understand. They are learning the logic of programming and the fundamentals of computer literacy.

Soon increments and global variables are introduced, sub-procedures can be called in saved. erased or edited and some quite complex programs are being written. Text entries and displays are made, colour can be used: eventually, even the soundchip can be programmed, with envelope parameters set to create voices and voices of varying pitch assigned to be played from the computer keyboard. All in all, Logo is remarkable, adventurous and enjoyable. Maybe you wouldn't expect children under ten to be able to program: but they can, and they enjoy it too.



# NO COMPUTER IS COMPLETE WITHOUT A DUST COVER

Protect your Amiga with a dust cover from the BBD Professional Range.

Made from best quality proofed nylon that has been treated with a flame retardant and an anti-static inhibitor. BBD Dust Covers are tastefully finished with contrasting piping. They never crack, discolour, tear or fade. They can be washed and ironed. So confident are BBD of the quality that they give a noguibble guarantee with every cover.

### BBD dust covers are not expensive and all our prices include VAT and P&P

Amiga 500, Keyboard only.....£5.00 Amiga 1000, one piece cover.....£8.00 Amiga 2000, two piece set .....£11.00

In addition to the above BBD offer a wide range of other covers. These include printer covers from only £5.50 Why not contact us for further details

DUST

Dept. 34. The Standish Centre, Cross Street. Standish, Wigan, WN6 0HQ



Telephone: 0257 425839 ext 34 Fax: 0257 423909

**Sheer Perfection in Computer Protection** 

# THE ULTIMATE POOLS PREDICTION PROGRAM

MASSIVE DATABASE Poolswinner is a sophisticated Pools

prediction aid. It comes complete with the largest database available = 22000 matches over 10 years.

PREDICTS Not just SCOREDRAWS, but AWAYS, HOMES and NO SCORES.

SUCCESSFUL SELEC guarantee that Poolswinner performs

SUCCESSFUL SELEC gasters significantly better than chance. ADAT/ABLE Probabilities are given on every fature choose as many selections as you need for your bet. The precise prediction formals can be set by the user - you can develop and ten your own unique method. The program of the program

develop and net your own surges metrou.

SIMPLE TATE ATENTET All least masses are in the program. Simply type in the reference
sumbers from the screen. Or use TEXCEN to produce flatner list automatically (see below).

LEAGUE AND NON-LEAGUE. All English and Scottells begape teams are supported,
and the time league indice others used on pools coupons.

PRINTED SEPPORT: This latest copy peritoriod of data if you have a printer.

PRICE £24.00 (all inclusive)

FIXGEN 89/90 fortun

POOLSWINNER with FIXGEN £26.50 (for both)



COURSEWINNERY
THE PUTTER COMPUTER PROORAM. COLFERENCE
THE PUTTER COMPUTER PROORAM.
You can develop and test your own unique witning system by adjusted to
You can develop and test your own unique witning system by adjusting the
adjusta formula, our out the program is unique mode. Colvarienter VI uses
statistics, price money, weight, opios, traiter and oblevy form etc., etc.)
unique most likely winners, good long odde bes, ferences traites etc. The
database includes vida course stantics for all freind courses. To can update
BRICE \$2.50 April 47 Memory Services. PRICE £24.00 (all inclusive) includes Flat AND National Bunt

AMSTRAD CPCs

AMSTRAD PCW Please state tape or disc BECS COMMODORE 64/128 COMMODORE AMICA (add £2.00 for disc).

SPECTRUM

ATABLE ST

Send Cheques POs for





62 ALTRINCHAM RD, GATLEY, CHEADLE, CHESHIRE SK8 4DP. 22 061-428 7425

## C commodore



Amiga A500 complete, now only €349 Amiga A500MM with 1900M 6420

highures mono monitor M Amiga A500M with A1084S £615 hi-res storen colour monitor ■ Amiga 82000 with 1.3 Roms & software & 1MB chip-RAM (UK

■ Amiga B2000M As above, plus A1084S stereo colour monitor Prices include VAT, delivery & warranty. Please add £15 for overnight delivery. All systems are tested before despatch. On-alle maintenance options available. Maniga 82000 XTM As above, plus PC-XT bridge board 8.55° di

BBB Amiga 2000 Presentation and AudioVisual systems ... Call



A2620 68000 Accelerator Card A2286 PC-AT board & 51" drive A2088 PC-XT board & 51" drive

C2058 8MB Board, 2MB installed RAM for above, per 2MB .. 20MB Amina/MS-Dos hard disks 20MB autoboot hard disks from \_

■ 40MB autoboot hard disks from Flicker Fixer Multiscan Adaptor ■ NEC 31" internal drive

■ 31 DS/DD diskettes, per 10 610 A501 plug-in RAM/clock 512K €119 ■ 1MB/1.8MB plug-in RAM/clock ■ NEC 3½" half-height drive NEW! ■ A590 20MB autoboot hard disk €375 Phone RAM for A590, per MB ... Phone Amdrive 50MB SCSI hard disk €459 e 1900M high-res mono m £115

£79 Trackball Marconi RB2

■■■ Vortex 40MB fast hard disk; autoboots from 1.2 Roms! £529

Why not enjoy the free Teletext databases with the MicroText Tolletext databases with the MicroText Tolletext daption. Fully programmate, with Pasket Rushin, Instead tolletext and the Comparison of the Comparis

C470 ...

24.95

C 84 44

62.01

625 N

WWW NEW half-height NEC external drive with switch & throughpo t £89!



Pagestream v1.6 H Professional Page v1.2 Ir Personal Tax Planner U A/C Basic v1.3 B

for Begli

B.A.D. Disk Optimizer B.A.D. Disk Open KindWords v2 Publisher's Cho ProText v4 Amiga C for Bec Amiga C Advan

PAL Rendale Pro

Aegis Draw 2000
 X-Cad Designer
 X-Cad Professional

Relational database power, without programming! As above, plus text, mail merge, batch entry etc. With Forms Editor and DML programming language Pro Spreadsheet with business graphics, temp plann Ultimate Arriga spreadsheet. + best/graphics/speech High performance desktop VPP, now with IAI Iontis 59.01 High performance desktop WP, now with HO tonts High qualify output, Preferences/PostScipt compati Includes WP, Desktop, colour separations, CAD UK Income Tax computation program, from Digita By Absoft, Comples Amiga Basic... FAST! Backs up 20MB in 20 minutes, any Amiga hard drive Reads & writes MS-OOS on 51' & 3]\* Amiga drives 129 01

Heads & writes MS-DOS on 51° & 37' Arriga drives

Smitzer Speeds disk access up to 500%, WorkBench or Cut
£44:s ■ System Programmer's Guide
plice 78:s ■ Amiga Basic Inside & Out
78:s ■ Amiga Basic Inside & Out
ginners
18:s ■ Amiga 30 Graphic Prog. In Bas
coed Programmers 24:s ■ Amiga Tricks & Tips shie Prog. In Basis 14

■■■ SuperPic real-time PAL colour digitiser and genlock 64951



Much faster than Soupit 3D, with 24-bit plane option Professional video titler with fonts, extra fonts available 12x12 Graphics Tablet with fast driver software

12012 Caraptics Tablet with tast driver software
Broadcast quality genics for the professional user
£114.ss III MiniGen
179.ss III Digi/New Gold
89.ss III FageFilipper + F/X 79 1

III IF YOU WANT IT TOMORROW... CALL US TODAY! ON 01-546-7256 ###

Prices are POST FREE & include VAT Order by phone with your credit card, or send cheque/PO or your credit card number. Official orders welcome. We despatch same day by FIRST CLASS post. Please allow 5 days for delivery of hardware orders. Prices are quote

LAKESIDE HOUSE. KINGSTON HILL. SURREY. KT2 7OT.

# **SUMMER SPECIALS**

5	1/4 "	DISKS AND BOX OFFER			
25	5 1/4" DS/DD 4	100 Cap Box	£11.63		
	5 1/4" DS/DD -		£16.5		
75	5 1/4" DS/DD -	100 Cap Box	£22.5		
100	5 1/4" DS/DD -	100 Cap Box	£28.5		
1999	All Disks 100	% Certified and Gua	ranteed.		
	All Box	es inc. Lock & Divide	ors.		

	DAT	TA S	WITCHES
2 Way	36 PIN	Cent	£14.50
2 Way	25 PIN	D-Type	£12.50
(-Over	36 PIN	Cent	£19.22
(-Over	25 PIN	D-Type	£18.22
	All Me	tal Case	with Rotary Switch.

CABLE	ACCESSORIES
25F-25F Gender	£7.00
9F-25M AT Gender	£7.00
25 Way Mini Tester	£8.50
25 Way Mini Jumper	€8.50

	PRINTER STANDS	
Piece	Universal	£7.
Piece	80 col	29.

	3 /2	BOX OFF	
-	20 3 1/2" DS/DD + 80 0	Dap Box	£20
	40 3 1/2" DS/DD + 80 C	ap Box	£34
	50 3 1/2" DS/DD + 80 C	ap Box	£40
	70 3 1/2" DS/DD + 80 C	ap Box	£54
3		s 100% Certified &	
		ranteed 135 tpi.	

DATA SWITCH	IES AUTO
5 to 1 Parallel	£75.00
5 to 1 Serial	£75.00
8 to 1 Parallel	£95.00
8 to 1 Serial	£95.00
All With Manual	Override
700 0000	010

UNIN	ITERRU	PTIBLE
POV	VER SUI	PPLIES
50 VA Slimlin	e *10/22	£287.50
00 VA "5/15		£298.00
50 VA Slimlin	e *7/15	£350.00
00 VA "5/15		£556.00
00 VA *5/12		£625.00
ansfer Time -	4 miliseconds	Overload Protection

British Standard Output Sockets • 6 Feet Power Cord with Plug \* Load times full/half load more Loss of Data due to Power Failure

	SPECIAL Inc. Locks & Dividers	
50	Capacity	€5.2
	Capacity	£6.5
100	Capacity	
		€4.9

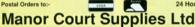
5 1/4" 1	00 Capacit	y
	DAT	A CABLES
IBM	25m-36m	2 mtr
Cent	36m-36m	2 mtr
RS232	25m-25m	2 mtr
RS232	25f-25m	2 mtr

PF	INTER BUFFER	RS
256k 1 l/p to 1	0/p	£140.00
256k 1 Vp to 2	0/p	£156.00
256k 2 Vp to 1	0/p	£159.00
256k 2 l/p to 2	0/0	£190.00
256k 4 l/p to 2	O/p	£256.00
	All Buffers are Parallel Only.	

ACCESSORIES	
A4 Anglepoise Copy Holder	£13.00
14" Tilt & Turn Monitor Stand	£12.50
5 1/4" Head Cleaner & Fluid	£2.50
3 1/2" Head Cleaner & Fluid	£3.50
Copy Floor Stand	£10.00

### ALL PRICES INCLUDE VAT & P&P. UK & BFPO ORDERS ONLY

Cheques & Postal Orders to:-



24 Hours Orderline: 0597 87 784

Fax: 0587 87 416 Telephone: 0597 87 792

DEPT AF10. GLEN CELYN HOUSE, PENYBONT, LLANDRINDOD WELLS, POWYS, LD1 5SY EDUCATION AND GOVERNMENT ORDERS WELCOME

# **AMIGA HARDWARE OFFERS**

### RAMSOFT PACK A

AMIGA A500, 512K MEMORY, 1 MEG AMIGIA A500, 512K MEMOHY, 1 MEG INTERNAL DRIVE, TV MODULATOR, KICKSTART 1.3, WORKBENCH 1.3, TUTORIIAL AND EXTRAS DISKS, MOUSE AND MOUSE MAT, 10 TOP PD GAMES OR 10 BLANK DISKS AND LABELS 2359.00



### • RAMSOFT PACK B RAMSOFT PACK C

THIS PACKAGE AS ABOVE

10 STAR PACK VALUED AT OVER £240, PAINT PACKAGE AND FOR A LIMITED PERIOD, SLAYGON & FINAL MISSION

2379.00 PRINTERS

### AMIGA A500

KICKSTART 1.3 WORKBENCH 1.3 MOUSE MAT 10 TOP QUALITY P.D GAMES PHILIPS CM8833 MONITOR 2544.99

### ACCESSORIES

EIKOSHA SP-180 + LEAD ... £139.99 CITIZEN 120-D . LEAD ......£180.00 TAR LC10 MONO + LEAD .... £189.00 TAR LC10 COLOUR + LEAD .... £189.00 Why not call in our showroom where experienced and helpful staff can help solve your problems! Our showroom address is: Unit 1, 160 Drake Street, Rochdale, Lancs or call us on (0706) 43519. Between 9.00am & 5.30pm

### **CUMANA 3.5 INCH DRIVE**

299.99

KONIX NAVIGATOR JOYSTICK £12.95

QUICKSHOT II TURBO JOYSTICK 29.95

**BOOK PROGRAMS ON DISK!!!** 

Ramsoft, Dept AF2, Townhouse Cottage, Lower Townho
Littleborough, Lancs, OL16 9-X England.

24 hour despatch on all stock term subject to chapte diseases
at allow a subject to whatelethy, and may happe a supplement & o

### RAMSOFT OF ROCHDALE

00.0

(Formerly 16-Bit Software)
AMIGA & ST BOOK AND HARDWARE **SPECIALISTS** 



Amiga DOS Quick Reference (Abacus)	ı
Motorola 68000 Programmers Ref Man (Motorola)	ŀ
1001 Things to Do with Your Amigs (Tab)	ŀ
P Amiga for Beginners (Abacus)	ı
Nickstart Guide to the Amiga (Ariadne)	ı
Kids and the Amiga (Computel)     Elementary Amiga BASIC (Computel) (D)	ı
Elementary Amiga BASIC (Computel) (D)	ı
Amiga Machine Language (Abacus) (D)	ı
Amiga Programmers Guide (Computel)	ı
Amiga DOS Reference Guide (Computel)	ı
Amiga Tricks and Tips (Abacus) (0) Inside Amiga Graphics (Computel) (0)	ı
P Inside Amiga Graphics (Computel) (D)	ı
	ı
Amiga Applications (Computel) (D)	ı
First Book of the Amiga (Computel) (D)	ı
Amiga DOS - Inside & Out (Abacus) (D)	ı
Computer Viruses - A High Tech Disease (Abacus - NEWI)	ı
Amiga Users Guide to Graphics, Sound, Telecom (Bantam)	ı
Becoming an Amiga Artist (Scott -Foresman - NEWI)	ı
Amiga 3D Graphics Programming in BASIC (Abacus - NEWI) (D)	ı
Amiga Machine Lang Programming Guide (Computel) (D)	ı
Using Deluxe Paint II (Computel)	ı
Learning C - Graphics on Amiga & Atari ST (Computel) (D)	Ł
Amiga BASIC - Inside & Out (Abacus) (D)	ı
Amiga Microsoft BASIC Programmers Guide (Scott Foresman)	ı
Inside the Amiga with C (Sams)	ı
Amiga DOS Manual (Bantam)	ı
Programming the 68000 (Sybex)	ı
Amiga Disk Drives - Inside & Out (Abacus) (D)	ı
Programmers Guide to the Amiga (Sybex)	ı
Amiga Programmers Handbook (Sybex)	ł
Amiga Programmers Handbook, Vol 2 (Sybex)	Ł
Amiga ROM Kernel Ref. Man. Includes & Autodocs (A.W NEWI)	ı
Amiga C for Advanced Programmers (Abacus - NEWI)	ı
Amiga System Programmers Guide (Abacus) (D)	ı
	L
DI FASE NOTE 16. Rit Software has now expanded a great deal, and now trade	ű

(6-Bit Software has now expanded a great deal, and now tra msoft. We can now offer 48hr delivery on all stock items. If it advertised please call us on the office number. We can have ted, at our showcom within 24 hours. (Subject to Availability)







# **BACK ISSUES**

ONLY £2.95, HURRY, BEFORE THEY SELL OUT!

Issue 1 M Order Code AM201 Cover Disk: Amiga: Intercept demo, Virus Killer, Othello game. ST: Oids demo, Virus Killer Magazine: Word processors evaluated. Graphics packages

compared, Pro-sound, Superbase henchtested

Issue 2-6 SOLD OUT! SORRY! Issue 7 ■ Order Code AM207

Cover Disk: Amiga: Cosmoroids, play the game, MCAD design for your ST: Play Level One of Flying Shark,

HiSTart, high quality ST art Magazine/Full review of Flair Paint, Colour Printers. Shoot 'em up Construction Kit, Learn Basic.

Cover Disk: Amiga: Stunning scenery rator, Purple Saturn Day demo. ST: Purple Saturn Day demo, Database construction set.

Magazine: Autoroute (the computer journey planner), Sculpt 4D, a modelling package, Protext (THE word processor for your Amiga then!), Cameron's Handy Scanner reviewed.

If you're a new reader to the "Format" titles, we feel sure that you'll be anxious to catch up on some of the very rare earlier issues of ST Amiga Format magazine, each with its own cover disc but also full to the brim of great reviews, articles and news.

### REMEMBER, THERE ARE LIMITED STOCKS!

Issue 10 ■ Order Code AM210

Cover Disk: Amiga: Cybernoid II (playable demo), Learn Devnac 1 ST: Zak McKracken (playable demo), Learn Devpac 1.

Magazine: Upgrade your machine with extra magabytes, Daatascan hand-held scanner from Kempston Samplers

Cover Disk: Amiga: Blood Money (playable demo), File requester, add

equesters to programs ST: Archipelagos, playable demo, Fastmouse speed up mouse operation, Magazine: Make yourself a sound sampler, Deluxe Paint III,

tutorial. Why not invest in a better screen? Here's the choice...

Issue 12 B Order Code AM212 Cover Disk: Amiga: Colossus Chess. playable demo, TirusX V3.1 protect your disks against viral infection, Boot intro, add scrolling messages to your

ST: Flair Paint, usable demo of this brilliant art package. Magazine: Video digitising, Attach a

midi system to your machine and make music. The best available joysticks.

Issue 13 ■ Order Code AM2113 Cover Disk: Amiga: Wicked, playable

demo of this totally addictive game. Mandelshow, create infi complex pictures with this Mandelbrot generator

ST: Spherical, an excellent playable demo of this strategy game. Magazine: Pagestream, a brilliant DTP. Animation techniques, the reasons why, The choice of hard drives.

Amiga Format Issue 1 ■ Order Code AM2113

Cover Disk: : Wicked, playable demo of this totally addictive game. Mandelshow, create infinitely complex pictures with this Mandelbrot

Magazine: Pagestream, a brilliant DTP, Animation techniques, the reasons why. The choice of hard

Amiga Format Issue 2 ■ Order Code AM2112

drives.

Cover Disk: Gemini Wing, the wildly addictive demo from Virgin Games. Spread, an immensely practical spreadsheet. Dropcloth, designer tablecloths to cover you Workbench.

Magazine: Have a look at the A590 Hard Disk. DTP Special.











★ See some excellent reasons why you should subscribe on Page 12

ase rush me the fol	llowing items:		Name
Order Code	Title	FORMAT Price	Address
			Post code
			Phone no
			Method of Payment (please circle)
	The Property	100 to 10	ACCESS · VISA · CHEQUE · PO
			Credit card number

SEND THIS FORM TO Amiga Format 16 BLITZ The Old Barn, FREEPOST, Somerton, Somerset, TA11 7PY \*No stamp required if posted in the UK, the Channel Islands or the Isle of Man

### HOW TO ORDER

Just make a note of the details and the order code. Then either fill them in on the order coupon and send with your cheque, made payable to Future Publishing Limited: or give us the details of your Access or Visa card.

### OR

Ring 0458 74011. our credit card hotline.

# PLEASE NOTE

1. All items are despatched by first class mail (unless otherwise stated).

- 2. All prices include postage, packing and Vat.
- 3. You will normally receive products within 7 days of ordering. Please allow 2-3 weeks in case of temporary shortages.

# MATARI ST and C AMIGA

## Sixteen Bit Superdeals from the Sixteen Bit Specialists!

CUSTOMERS PLEASE NOTE! When comparing prices remember ours include fast delivery by courier.



### 520 STFM Power Pack £359.00

Inc. VAT and Next Day Delivery Power Pack includes:

- 520 STFM 512K Keyboard with Built-in 1 Megabyte disk drive and TV
- Over \$550 worth of games software, including OutRun, Gauntlet 2, R-Type, Space Harrier, Super HangOn and 16 more Top Games Organiser Business Software including WORDPROCESSOR,
- Organiser Business Software III.

First BASIC and First Music Utility Software FREE JOYSTICK AND FREE MOUSE MAT WORTH £4.95

FREE JOYSTICK AND PIECE MOUSE MAI THORTH 25.00
All leads, manuals PLUS MOUSE and free mains plug!
REMEMBER! Many ST's do not come with BASIC - ours come with
ST BASIC REV D by Metacomco.

### 520STFM Explorer Pack £279.00

- ★ Explorer Pack Includes 520STFM 512K Keyboard with built-in 1 Megabyte Disk
- Drive and TV Modulator

  1 FREE Game, ST Tutorial and METACOMCO Basic worth £25.00

  All Leads, Manuals PLUS MOUSE and FREE Mains Plug!

### 1040STFM Midi Music Pack £439.00

\* Includes 1 megabyte keyboard plus Pro 12 Midi Music Software

### 1040STFM Business Pack £439.00

### **Business Pack includes:**

- \* Atari 1040STFM Keyboard with 1 meg memory and 1 meg built- in disk drive plus TV modulator. £385 worth of Business Software including MICROSOFT WRITE word proces
- SUPERBASE PERSONAL Database (£60) and VIP PROFESSIONAL Lotus 123 Spreadsheet clone (£150). Metacomco Basic (£25.00) \* All leads, manuals and mouse.

### MEGA 1 BUSINESS PACK €529.00

- Features:
- Features:

  ★ Separate Keyboard and System Unit

  ★ All the Software included with 1040 STFM Business Pack.

  ★ Bitter chip installed for faster graphics

  Inc SM124 Mono Monitor..........£628.00

### ACCESSORIES

Quickshot II Turbo Joystick£9.95	Branded Memorex 3.5" DS DD Disks
Competition Pro 5000 Joystick£13.95	Box of 10£13.95
Competition Pro with Autofire£14.95	Memorex Disk Box
Konix Speedking Joystick£11.95	For 40 3.5" Disks£8.95
Red Mouse Mat with Amiga logo £5.95	Amiga 1/2 Meg Expansion£119.95
Plain blue Mouse Mat£4.95	Control Centre Atari or Amiga£39.95
Contriver Amiga and ST Mouse with	FREE Holder and Mouse Pad £20.95

### PRINTERS

Star LG24-10 24 pin incl. lead S1/Amiga	£279.00
Star LC10 including interface lead for ST/Amiga	£169.00
Star LC10 colour including interface lead for ST/Amiga	£219.00
Citizen 120D including interface lead for ST/Amiga	£159.00
SEIKOSHA 80 COLUMN PRINTERS - AMAZING F	PRICES
Seikosha 9 pin NLQ including interface lead for ST/Amiga.	£139.00
Selkosha 24 pin LQ including interface lead for ST/Amiga .	£259.00

Amiga A500 Games Pack £389.00

Inc VAT and Next Day Delivery



Game Pack includes:

- ★ Amiga A500 512K Keyboard with Built-in 1 Megabyte disk drive ★ Free TV modulator worth £24.99 allowing you to use the Amiga with a normal TV
- £230 worth of Games Software, including BUGGY
  BOY, MERCENARY, BARBARIAN, WIZBALL & six more games ★ PHOTON PAINT or SPRITZ GRAPHICS PACKAGE worth over £50.00. ★ FREE MOUSE MAT worth £4.95
- \* Amiga BASIC, Amiga EXTRAS 1.3, Workbench 1.3 PLUS the Amiga Step by Step Tutorial
- \* All leads, manuals PLUS MOUSE and mains plug!

### Amiga A500 StandAlone £369.00

★ Amiga A500 as above but without the £230.00 worth of Games Software

NEW! Amiga A500 Business & Games Pack

includes everything in our Amiga Games Pack PLUS a Comprehensive Suite of Business Programs including, Scribble II WORDPROCESSOR, Analyze II Spreadsheet and Organise Database.

### AMIGA 1 MEG! £499.00

Announcing the new Amiga 1 meg-an A500 system with fitted 1 megabyte memory expansion and clock card PLUS TV Modulator AND DRAGON'S LAIR a six disk 1 meg megagame!

# AMIGA 1 MEG +

Our Amiga 1 meg + also includes the £230 worth of games software normally given with our A500 Games Pack.

### EXTERNAL DISK DRIVES

Atari SF314 1 Megabyte	£139.00
Amiga A1010 1 Megabyte	£139.00
Cumana 1 Megabyte Atari or Amiga	
NEC 1 Megabyte Amiga	289.95
Atari Megafile 30 Hard Disk	£449.00
New! Commodore A590 20 meg hard disk	£369.00

### MONITORS

Commodore Amiga A1084 Stereo colour Monitor inc lead	6269 00
Atari SC1224 Colour Monitor inc lead	£249.00
Atari SM124 Mono Monitor including lead	£104.00
Philips CM8833 stereo colour monitor inc. lead for ST or Amiga	£229.00

CREDIT CARD ORDERLINE # 0908 78008 (Mon - Sat 9am - 6pm)
To order either call the orderline above with your Credit Card details OR make a cheque or P.O. payable to



Unit 36, Wharfside, Fenny Stratford, MILTON KEYNES MK2 2AZ
All prices include VAT and delivery by courier





### YOUR ONE STOP SHOP

MORE SOFTWARE THAN YOU CAN HANDLE! MORE HARDWARE THAN YOU CAN USE!

inc. FREE Modulator & Mouse PLUS:- Workbench 1.3, Amiga Extras 1.3, Amiga Basic 1.2, Amiga "The Very First", Starglider, Knight Orc, Hell Bent, Zynaps, Eliminator, Powerplay, Custodian, Mercenary, PHOTON PAINT. Quickshot II Joystick. Dust Cover. Mouse Mat & House, 10 SONY Disks, 24 PD Games.

### ONLY £499 OR \$19" MONTHLY

### Phillips 8833 Colour Monitor with Stereo Sound & High Resolution Only £269.00

FREE **Photon Paint** when you buy an AMIGA

2nd Drive OUR PRICE ONLY £99.99

### STAR LC10

Unbegtable VALUE ONLY £169.99

COLOUR

STAR LC10 Commodore 1230 Printer C64 Interface plus standard Centronics.

ONLY £229.99 ONLY £149.99 WITH ALL PRINTERS

20Mb A590 HARD DRIVE

WHY PAY MORE?

**ONLY £399** 1/2Mb Ram £79.96 A500

Ram upgrade Only £79.99

We may not be the very cheapest But when it's down to service.

WE CAN'T BE BEATEN

Visit us soon and find out why so many wouldn't go elsewhere

MAIL ORDER: - Carriage at Cost **ADVICE HOTLINE** (0782) 268620

for FAST & FRIENDLY SERVICE

SEND S.A.E. FOR CATALOGUE

STOKE-ON-TRENT

11 Market Square Arcade, Hanley Stoke-on-Trent Manager Wayne Tet: 0782 268620 Open 6 Days

SHEFFIELD 6 Waingate, Sheffield Manager, Tony Tet: 0742 721906 Closed Thursday STOCKPORT

ST HELENS 27 Baddwin Street, St Helens Manager, Adrian Tet 0744 27941 Closed Thursday

**& Meathouse Brow** (Off Liftle Underbank), Stockport Manager Ray Tet 061 480 2693 Closed Thursday

# THAMMERSOFT -

### THE AMIGA SPECIALIST

Kingdom of England KNIGHT ORC + JOURNEY Archipelagos Bad Cat Balance of Power 1990 BATTLE OHESS BATTLEHRANCS 1942 BARBARAN I Ultima III or IV UNIVERSAL MILITARY SMI WAR IN MOCK F FARTH ROAD STANGER SCORPION SELLOK SPACE HARRIER SPEEDBALL STANGLIDER IL CRAPHICS, MUSIC & BUSINESS. Suggy Boy Castle Warrior

Deluse Video (Pat) VELLOSE PAINT III (FRL) (IMB STANGLIDER II. SUPER HANG-ON SUPERMAN. SWORD OF SODAN!! Digipant II DIGNEW GOLD (PAL) Double Dragon DRAGONAVIÑA DRAGON'S LAR (1 M/G) DULPT 3D (PAL) Julpt 3D Animate (Pal (I MB) Show (Pal) (I MB) Text (Pal) July (I MB) FORGOTTEN WORLDS.... Garrison I or II Bhirtigig Xybots Xenon II Megablast TV Text (Pat)
Aegis Video Titler (Pat)
Aegis Sonix 2.0 (2 Drives)
Delice Music
D Music Rock in Roll Disc Gauntlet II HERCES OF THE LANCE HELL BENT Honda RW 750 ADVENTURE & SIMULATION BALANCE OF POWER 1990 BATTLE CHESS BLACK CAULDRON

International KICK OFF 11 Licence to Kill. LORDS OF THE RISING SUN MENACT MICROPROSE SOCCER MILLENNUM 2.2 MELENNUM 5.2 N. IRLLUS N. IRLLUS N. IRLLUS N. IRLLUS HARDWARE U.K. ONLY AMIGA ASSO & TV Moduli Fight Sim. II
Gurstep
Scenery 7 or 11
Japan or Europe
HERGES OF THE LANCE !!
NTERCEPTOR ETHERWORLD

Please Send Cheques/Postal Orders to: HAMMERSOFT, (DEPT F)

47 MILL ROAD. on Request!
ORDERS ENQUIRIES
TEL (0603) 812416 HETHERSETT, NORWICH NORFOLK NR9 3DS Access, Visa, Eurocard & Mastercard Accepted

Prices all include VAT & 1s Class Postage in U.K. (Europe please add £2.00 per item) um of Boot Carolea

### \* SPECIAL OFFER \* SPECIAL OFFER \*

Buy any Amiga / Atari / PC Pack and receive our FREE SPECIAL STARTER PACK which includes 10 Public Domain Disks plus 10 blank disks.

Existing Amiga users can buy our SPECIAL PACKS for £30.00 inclusive. Please ring for details.

AMIGA A500 PACKS

PACK A Amiga A500 + Mouse + Modulator + Our Special Pack
PACK B Amiga A500 + Mouse + Modulator + 10 Games + Our FREE Special Pa PACK C Amiga A500 + Mouse + Modulator + 10 Games + Photon Paint + Our FREE Special Pack Special Pack

Special Pack

Ampa A500 + Mouse + Modulator + 9 Games + Joystick + Our FREE School

Pack

Ampa A500 + Mouse + Modulator + 9 Games + Joystick + Our FREE School

Pack

Special Pack

Special Pack

Ampa A500 + Mouse + Modulator + 9 Games + Joystick + Our FREE School

Ampa A500 + Mouse + Modulator + 9 Games + Joystick + Our FREE School

Back

Special Pack

Ampa A500 + Mouse + Modulator + 9 Games + Joystick + Our FREE School

Back

Special Pack

Ampa A500 + Mouse + Modulator + 9 Games + Joystick + Our FREE School

Back

Special Pack

Ampa A500 + Mouse + Modulator + 9 Games + Joystick + Our FREE School

Back

Special Pack

Ampa A500 + Mouse + Modulator + 9 Games + Joystick + Our FREE School

Back

Special Pack

Back

Back £399.99 £399 99

£649.99 PACK G Amiga A500 + Mouse + Modulator + A1010 Disc Drive + Aegis Sonix + Our Special Pack.

Amiga External Disk Drive Drive with throughport/disable switch £548.99 £95.00 £860.00

For AMIGA B2000 ring for out Special price.

ATARI 520STFM/1040STFM
PACK A 520STFM + 1 Meg Disk Drive + BASIC + Our FREE Sp

£275.00 PACK B 520STFM + 1 Meg Disk Drive + BASIC + 22 Games + Our FREE Sg PACK C 1040STFM + 1 Meg + BASIC + Books + VIP + Microsoft Write + Superb Packs D 1040STFM + 1 Meg + BASIC + 22 Games/Progs + Our FREE Special Pack.

PACK D 1040STFM + 1 Meg + BASIC + 22 Games/Progs + Our FREE Special P £460.00

CAED OD .00.00

increase the speed of your Amiga with our 68010 Processor - full instruction
Couble the speed of your Amiga with the Accelerator Card With the 14.3 MHz 68000
Increase the Speed of Your XTBridgeboard with our V20 Uggrade
Add 6867-2 Co-Processor to your XTBridgeboard NP
Upgrade your Amiga 2000 with our 80286 Card.

FUpgrade your Amiga 2000 with our 80286 Card.

FU £179.00 £20.00 £134.00 om £300 100% GUARANTEED ERROR FREE

UNBRANDED BRANDED SONY 3M VERBATIM 01 to xod req 00.0012. £20.00 per Oty of 25 £5.50 per box of 10 £6.50 per box of 10 £14.00 per box of 10 £38.00 per box of 10 £13.00 per box of 10 £27.00 per box of 10 3 A" DSDD 31A" DSHD £12.00 per Qty of 25 £24.00 per box of 10

We also stock COMPUTER BOOKS, COMMODORE 64'S and COMPATIBLES, PEGASUS SOFTWARE / STATIONERY, Please Ring For Details! All prices are inclusive of VAT. Goods are despatched within 24 hours of cleared transaction. Personal Callers welcome. Please send your cheque Postal orders to:

**OUADSOFT COMPUTERS** 

Unit 306, 203/213 Mare Street, London E8 3QE. Telephone: 01-533 5116/0860 564231

# FORMAT LETTERS

Yet again, a few of your many letters manage to escape the Origami treatment. All new offerings are welcomed by BOB at 4 Queen Street. Bath. BA1 1 EJ. Write now!

### CANNON'S BROADSIDE

I have just had the underwhelming misfortune of reading your second attempt at producing an amiga only publication, what a load of old dross

I realise your probably a bunch of spotty adolescents trying to earn as much money as you can with the barest minimum of effort because it shows in the publication, as you came from ace you must be used to catering for deadheads and children whose blinkered outlook can see whose blinkered outlook can see no further than the latest game.

If I wanted all the latest game reviews i would buy ace or the one but i do not want games reviews i want insight into the complex versatile machine i own issue 2 is just the ace comic with amiga format printed on the front

What's the matter with you, you won't last long by padding out the magazine with double page game reviews and adverts and printing those letters you get from those who seem to be devoid of a conventional education i mean this months workbench you filled night two pages with questions that could have been answered simply by reading the supplied manual and the tips came from those who have read the supplied manual.

The letters page seems to be solely for those wishing to display their prowess as sycophants and the coverdisc's demo was a straight port over from a 48K spectrum i hone!

All in all a waste of £2.95 this month seems to me that you have bitten off more than you can chew just like "your amiga" magazine a very informative magazine with the right balance until it went monthly now it's a 5th rate ace clone only 45p dearer and as "amiga computing" has just strapped a disc to the front cover and it has the right balance looks like your going to lose out unless like your going to lose out unless

you shape up a bit sharpish. CHRIS CANNON

ROMFORD, ESSEX

I have printed this letter with all the grammatical and punctuation errors left in. Mr Cannon is obviously correct about at least one of our readers being "devoid of a conventional education". We usually like to finish letter replies with a gag: we'd be happy to fit yours personally.

### SPEAK TO ME

Does anyone remember the speech synthesizer kit in Issue 8 of \$517/Amiga Format? You dot Did you find the box didn't work when you finished building it? Not me. Being a PCB inspector it worked first time. My question is does anyone have any decent programs for it? I am a bit short on know how. So could you print some in the magazine, as I'm sure many people would agree the

synth is a cheap but excellent piece of hardware.
DEAN WATSON,
ANDOVER, HANTS

We would love to print them, so send some in if you've got them.

### **FOUL PLAY?**

Being a keen computer user and a keen football fan, I was delighted to see two companies, Anco and Microprose, release football games on the Amiga. Undecided as to which to buy, I turned to your reviews of the games concerned in the August issue. It was obvious which one you preferred and so I purchased Kick Off from your mail order department.

A quick read of the rather lightweight instruction pamphlet whetted my appetite and so I booted the program up. After a few games it was obvious, to my disappointment, that this is not

R

the amazing simulation that both your reviewer and Anco claim. There now follows a list of my complaints:

The presentation is very user-unfriendly from the start. For example, in a single game the user is referred to as 'Joystick 1'. Surely an option for the user to define his own name would be better?

2. Having a large roster of referees with different characteristics is a good idea, but surely part of this option is that you can note the style of each ref and plan your tactics accordingly before each game. If, however, you lose the toss before the match, the computer does not inform you of the game's referee.

3. Some of the referees are ever extreme, sending-a player off after two fouls. This means that in a long match many players will be sent off. In one match that I played, all ten of the computer's outfield men had been given their marching orders by the second half! I can't name the ref a sI lost the toss (see point 2). Needless to say, I had to abandon the match when the computer was awarded a throw in and there wasn't a player to take it!

4. The, in places, inaccurate manual states that when a penalty is taken, the directional arrow "freezes giving the keeper a ... righting chance to save." in oneplayer mode this does not happen when the computer takes a penalty. Presumably this means that the player does not have a chance of saving it.

5. The extremely high speeds at which the top level players play the game renders the scanner redundant when it would be most useful – taking your eyes off the field to look at the scanner results in at best a loss of possession. And in the league option, the colours of the West German, Brazilian and Dutch teams have •

# PRIZEWINNE

# LET'S DO THE TIME

My main reason for writing is the infuriating review-date/releasedate time/space vortex. In my case the world spins something like this:

- 1 See fantastic review in September issue of mag.
- 2 Ring to order game.
- 3 Told game is not out for at least a month.
- 4 Wait a month, game not out yet.
- 5 See even fabbo-er review of new game in October issue of mag. Decide to get that instead.
  6 Go back to 2.
- 7 Move month on one and continue indefinitely.

The result is severe frustration, and a seriously retarded software collection.

MARTIN THOMSON WINSFORD, CHESHIRE

Due to a hole in the space-time continuum I am afraid this letter was received 23 years before it was written and clearly does not refer to the current situation. Your T-shirt and binder will be dispatched via Tardis and reach you some time in the year 2037.



•

•

E

# 35mm SLIDES FROM YOUR GRAPHICS

IF YOU NEED FAST HARD-COPY FROM YOUR MIGA GRAPHICS, THEN YOU CAN RELY ON IMMOGRY FOR A HIGH QUALITY, LOW COST SERVICE ON BOTH 35MM SLIDES & PRINTS INTERESTED ? THEN CALL US NOW ON THE FOLLOWING NUMBER, AND WE'LL BE HAPPY TO SEND FURTHER DETAILS TO YOU.

TEL: (091) 222 1822.

IMAGERY, SECOND FLOOR,

HIGH BRIDGE HOUSE, HIGH BRIDGE, AND NEWCASTLE UPON TYNE, NEI 1EW.



# COTSWOLD COMPUTERS

SPECIAL OFFER Amiga 500 Limited Edition (1 megabyte RAM, TV modulator - bragons Lair) Amiga 500 inc modulator and one game. Amiga 500 inc modulator and 10 star games pack. Amiga 500 inc modulator and 10 star games pack. But 10 the control of the	£374.00 £389.00 £634.00 £537.00 £489.00
megabyte hard disk	£2137.00 £299.00
Atari STFM Explorer Pack	£299.00

All other computers and peripherals available; also software.
For further details phone or send sae to:
COTSWOLD COMPUTERS
22 Polruan Place, Fishermead
Milton Keynes MK6 2LH
(9096) 662331

# SENLAC SOFTWARE

# CATERING SOLELY FOR AMIGA USERS SEN1 Starter Pack of 10 Disks. 19.99 SEN6 Draco Compiler 2 Disks. 4.99 SEN2 Star Trek Game 3 Disks. 7.99 SEN7 New Tek Demo 2 Disks. 4.99

SEN3 Music Collection 3 Disks SEN4 Gfx Collection 3 Disks. SEN5 NIB Copier (The Best!). (Note Nib requires Two Drives!	6.99		ertified Disks 3.5	11.99
SEN8 NotBoing/Again* SEN9 wild Copper SEN1 J. JRC Copper SEN1 J. JRC Copper SEN1 J. JRC Copper SEN1 J. JRC Copper SEN1 J. SEN JRC SEN1 J. JRC Copper SEN1 SEN1 J. SEN1 JRC SEN	SEN34 PD G SEN35 Crock SEN36 PanL SEN37 Sonib SEN38 Sonib SEN40 Musi SEN41 Deat SEN42 Rose SEN43 Mone SEN44 Than SEN45 Hi-Fi SEN46 Coke	oggers' Utils offBoingDemo ames offBoingDemo ames offBoingDemo ames offBoingDemo of	SEN54 AMAS D SEN55 Brick III SEN56 Chet So SEN57 Siddesh SEN58 Sidesh SEN59 Silpstre SEN59 Silpstre SEN59 ARC Pile SENSPECI DESCENSION 2 DENS SENSPECI DESCENSION 2 DENS SENSPECI DELUXERY DELUX	The Wall acce with 1 w 2 m Demos and Disk s
DON'T FORGET ANY New Senlac Clu  14 Oak  S  VISA  Eas	ngle Disks Co 10 or More Dis	st Just 2.25 lesOnly 1: owtOnly 3. Old Roar s on Sea, TN37 7H	9.99 Including Di .00 Includes Di Road,	sk Box sk.

10 Petersfield Berk: Tel 075	APLEX Avenue, Slough, shire SL2 5DN 3 35557 excluding delivery	VISA
AMIGA HARDWARE A500 complete 279.00 A500 + TV Modulator 295.00	Epsen LQ500 Epsen LQ1050 Epsen LQ1050	249.00 542.00 404.00
ASO0 × E200 worth games *TV Mod	HEWLETT PAC Thinkjet Quietjet Quietjet* Deskjet Deskjet * Pairrijet Rogged Writer	265.00 343.00 412.00 443.00 535.00
Includes: ASOO + TV Modulator, Photon Paint, Tenstar Puck (Cames worth over £220) 10045 Monitor Pack £552.00 Includes ASOO + TV Modulator, 1084S Colour Monitor, Photon Point, Tenstar Pack	All Hewlett Packard prints 12 months on site us Star LC10 trono. Star LC20 Colour. Star LC24-10. Schoolsa SP180. 9 pin 80 colour. 100cps:F/T	135.00 175.00
AMIGA ACCESSORIES AS01 - 512K Nav. 113.00 FROEE Pitting if bought with Amiga 500 t TV Modulater Mouse Mat 4.00	Seltosha SF1200 9 pin 80 colmn, 120cps: F/T Seltosha SL80 A1 80 colmn 24 pin NEC 72200	

| L02500 | R | 190.00 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

DOT MATRIX RANGE

## 24 2 25.00 be restill \$2.50.00 be restill \$

the same effect on the status panel, rendering it useless.

6. The player under human control often, in my version at least, does sliding tackles which are beyond my control. When your player is sent crashing to the ground, the computer leaves him under your control, thus leaving you out of the action. And as for the strikers, it seems pot luck whether they actually shoot straight or miss the goal by miles the much more likely result;

7. Finally the sound is, as you hint at with your rating, awful. The crowd cheering is a two second sample looped, and the sampled voice announcing a penalty sounds as though it belongs to a man who just discovered his wife and kids dield And why do the players line up before starting the second half?

To conclude, I am very disappointed with Kick Off. It is hardly the "accurate soccer simulation" Anco claim (ever heard of the off-side rule, Anco Kick Off's players haven't) and it didn't deserve a 91% rating or a Format Gold award. If I had paid the full £20 for the game, I would feel very bitter and cheated indeed.

Apart from that review, Amiga Format is great (especially the disk). Keep up the good work! DANIEL SILVER

WOODFORD GREEN, ESSEX

Cue Bob...cue Bob...cue bloody Bob. "Errrrrr, quite remarkable that performance by Daniel Silver, the man they're all calling errrrr Daniel Silver. So, Emlyn, what happened next?"

"Errrrm, I think Daniel complained about lots of things that are quirks of the game and most of us enjoy"

"That's nearly right, can you give me a little more?"

"Errrrrrrrm, was he completely wrong in point two, because it does show you the refs name?"

"Absolutely right, Emlyn. Quite, quite remarkable."
"Ooooooooh, aaaaaaaagh,

yessssss, well done team."
"I'm sure we'll get letters about this one. Em."

# IT IS AN EX-COPIER

I have a lot of sympathy with programmers who spend time and money, not to say a considerable amount of expertise only to get their software stolen. However there is another side to this which has recently been brought home to me very forcibly.

Although I've had a computer for three years I am new to the Amiga so I thought I'd better get a reliable disk copier to back-up my software. I looked at all the ads in the Amiga mags and it seemed that X-Copy was the favourite, so I sent off my £29 and duly received the program.

It is certainly fast and copes with a lot of disks though by no means all. However, that is not my beef. A few days later I bought some PD disks from a local shop for £2 each and on one was... you've guessed it, X-Copy, and Version 2.0 at that, while the one I paid £29 for was Version 1.30.

Now it seems to me that if the computer industry wishes to get the public on its side in this priracy debate they are going about it the wrong way. I feel that I've been well and truly ripped off and it will be a hell of a long time before I shed any more tears for the distributing side needs to get its act together for a bit of self regulating.

As a CPC owner I bought a great deal of software especially utilities and on the odd occasion I wrote to the software house concerned for advice, often I wouldn't even get a reply, though there are some honourable exceptions to this, Nemesis for one. Somebody has made a fortune recycling my unreturned SAEs! FRED BAIL 1

BLACKPOOL, LANCS

There is no such thing as a free lunch or a free piece of software. Your condemnation of the whole software industry because one program, and a potential piracy device at that, appeared on a PD disk is a little over the top.

### LAME GAMES

I was looking through some of my older computer mags the other day and whilst reading ST/Amiga Format Issue 9, I discovered a part I did not see when I first read the mag. It is on Page 7 and entitled 'The only way is up' and briefly said that machines will be all 1 megabyte soon and that 512K is not enough memory HA HA B \*\*\* Y HA (sorry but that's the way I feel), I don't know about you but I have had my Amiga for six months and have not seen a game really up to the Amiga's standards.

Nor have I seen a game that justifies a 20 or 25 quid price tag, sorry to tell a lie I have Falcon and Kristal and they were shoved up to 30 quid. I know that you're going to say – read the reviews, and I have. Take for example View to a Kill. I read the

review in several mags and they were good so I paid £20 for it. I could not get past the first level as it was pathetically hard and now it's stiffic collecting dust. I mean £20 is a lot of money just to sit on a sheff. If I wanted to show people that I am stupid with money I would invite them to watch me wipe my arse with a

The reviews should be Sound, Gross, Playability, Lastability and can you get past the first level or not. I mean the software companies spend all their time or graphics and "'k up the game play yet speccy owners get c'''y graphics and excellent game play AND only pay a tenner.

I know your mag is respectable but it is also a place where your customers can air their views so please print my letter and not say 'naid don't worry about this letter throw it away and print Mr Blogg's letter who only asks a silly thing like "where has Super Heroes his gone".

Thanks for listening to what I had to say, just one more thing to say to everybody – computing and buying games is like a drug addiction. It's a thing you wished you never got into but now you've got one you can't do without it. WAYNE HANSFORD
POOLE, DORSET

PS Where has Super Heroes Inc

The 'doubling' of ST/Amiga Format into Amiga Format and ST Format, caused an identity crisis in the two superheroes, who can now be found busking outside the Embankment tube station.

### PAW SPECTRUM, POOR AMIGA

I have recently upgraded from the humble Spectrum to an Amiga 500.1 would like to know if there is an equivalent to the Professional Adventure Writer (PAW) for the Amiga and what would be the price. If not, could you tell me about any adventure writer and where I could obtain one.

MARK CHEVERTON SHEFFIELD, YORKSHIRE

The only adventure creator we know of at the moment is Talespin from Microdeal, costing £29.95. Tel: 0726 68020 or write to Microdeal, PO Box 68, St Austell, Comwall PL25 4VB. Other creators like PAW from Glisoft and GAC (Graphic Adventure Creator) from incentive have not been converted and don't look likely to be unless enough adventurers demand it.

### BUT SERIOUSLY FOLKS

I would like to see the sort of 'serious' application which would be of use to most users of the Amiga, such as a simple database program, included on the cover disk. I emphasise 'be of use' because I do not think that the majority of your users will find the DOTA utility very useful. MC FILIOTT

WORKINGTON, CUMBRIA

One user's useful utility is another user's useless utility — it depends on what you use the Amiga for. However, there are plans to run a database fairly soon.

### PD BLUES

Two years ago. I decided to offer my services to the well know CBM user group known as ICPLIG I became the PD Amicus copier for the group and during the time that I did this, was inundated with requests/complaints with regards to the fact that many progs on the disks required some knowledge of the CLI before they would run correctly. Because of the problems that seemed to arise from these disks. I decided to start up my own Amiga PD/shareware library, offering disks that needed as little knowledge as possible to run the programs contained on them.

am the official UK distributor of Jeff White's TBAG and Merlin software disks, (with Jeff's permission) and distribute the North Star group's 'Exceller 8' magazine on disk. Also, unlike many, I do not have repeated programs on different groups disks.

My copying fees range from 50 pence to £1, with many copied free. I have yet to show any profit, as it should be.

Now, on to my reason for writing to your readers. In the last year I have noticed that an extremely large amount of Amiga owners, some that have even got their disk collections from me, are setting up PD libraries. This is fine, in principle.

What annoys me is that some new PD groups are selling PD/shareware progs for prices that are well and truly ridiculous, to the new and unsuspecting, Amiga owner.

This goes totally against the principles of PD/shareware progs principles of PD/shareware progs and I feel that new Amiganuts deserve to be warned about this and should be put straight about the unwarranted prices that some new PD groups are asking.

I understand the need for the main commercial companies charging slightly more than the private PD groups, they do after • ♦ all, have to make a living. What is wrong, in my opinion anyway, is the prices that some individuals are charging. I have seen anything from a not unreasonable £1 per copy, to a ridiculous £3!

If these sort of charges continue then a lot of the authors who quite happily offer their hard work to the PD/shareware community will soon stop doing so. Why, after all, should they give their programmes away to people like myself, only to see them offered at a later date for ridiculously high projess.

I respectfully ask the cowboys to stop and consider what the implications of their overcharging are. It is certain that if this continues, the supply of PD/shareware for the Amiga is going to dry up.

So to those Amiganuts who, like myself, run PD/libraries on a non profit-making basis, I say keep up the good work, but to the get-rich brigade I say, stop trying to screw the Amiga loving community NOW.

RAY BURT-FROST SOUTHAMPTON, HANTS

## NO INTELLECT,

I must say that I am slightly disappointed with issue one of Amiga Format. Games Reviews - It's nice to have so many games reviewed but you're not giving enough space for each one. By 'not enough space' I mean that the pictures are too large and there isn't enough writing for each. For example, a whole page was given over to a Kick Off players' guide and yet the review was only 60 lines long. OK. it's 66 including Graphics and Sound but half of the space in the review was an oversized picture and the title.

ST/Amiga Format always gave a double page for a Format Gold game. This included handy boxes for each section, not just Graphics and Sound. Circus Attractions, for example, received 56% and yet it got more space than Kick Off (91%). Circus Attractions had another annoying oversized picture at the top. Journey (82%) only got just over this amount of space for the entire motions.

You also reviewed 16 games, which only covered 14 pages. In my view, you should give a double page for all Format Gold games, a page for games of over 70% and half a page for the rest. You would have needed only 17 pages using this method. If people write in and say that that's too much room, it's only just over an eighth of the magazine.

Games Ratings. What is the point of an intellect rating? We've always survived with a few sentences about it before. And why get nid of lasting interest? I got the impression that ACE was obsessed with it. It's not related to addiction as you pointed out in your reviews. For example, read the last few sentences of Mayday Squad, Gunship, Rampage and Skweek and compare that with the addiction rating.

Why not use Graphics, Sound, Addiction and Lasting Interest? It gives a good impression of the game overall. For example, New Zealand Story is very addictive, but I got bored of it after several days (the demo). Faery Tale is almost the reverse of this. Also, I'd like to know why you didn't include the sound for Journey just because there wasn't any on an unexpanded A500. Many A500 owners now have one megabyte since the prices have fallen so much, Oh, and bring back the sliding scale! D DRODGE

D DRODGE LYRINGTON, HANTS

Over to Reviews Editor, Andy

Smith...
Generally, we do try to give as much space as possible to the better games but unfortunately things don't always work out as hoped. The pages are planned and allocated during the month and therefore we don't always know at the start what is going to come in. Games often arrive at our offices late in the schedule when there's title space left to give to them - that's just the way things go sometimes.

The Intellect rating is designed to enable readers to check, at a glance, just how much thought power is going to be needed to play the game. To play some games properly can take a lot of effort on the player's part (Balance Of Power springs immediately to mind) and we feel this is something the reader should be made aware of. As for lasting interest, we are giving the matter serious thought and may well change the rating system.

All of the games are played on a basic A500 simply because it's the basic machine and we must therefore cater for people who don't have and can't afford ungrades.

# HEAR, HEAR, NOT SEE

Just a general letter, mainly about your coverdisk. It is the best out at the moment, though the only things I like on it at the moment are playable level of a new game and some of the utilities.

The workbench hacks are a bit of a waste of disk space.

I think it could be improved by putting on music and music demos. These entertain more than your swinging frog demo, which is nice but I only watched it twice.

The still pictures prove my point even more. No one will look at a picture for more than 30 seconds, no matter how good it is. A good tune though (especially with graphics – even better if you can participate eg Demons are Forever by Doc and Sunrider's latest demol could last five minutes and you might listen to it any number of times if it's good. Music and Graphics are better than twice the number of graphics – sound is sorely lacking from your disk.

KARL DRINKWATER MANCHESTER PS Yours is still the best Amiga mag in most respects!

Uncanny, isn't it? No sooner do you ask for a music demo on the disk, than glory be and save us, hey presto, one appears. And yes, there will be more. I don't agree about the graphics and animations though, they are nice to look at, can be used as part of utdorials, they inspire creativity and most importantly — people like them.

PS Thank you, it's much appreciated. Are you one of the 'sycophants' Chris Cannon was writing about? We don't think so...

### ITALIAN'S NEUTRAL

I recently bought The Duel:Test Drive 2 for my Amiga 500. The game is brilliant and I really enjoy it but I found that sometimes the car I was driving would lose a gear, the engine only revving as if in neutral when I changed into this gear. When I crashed however, the broken gear was restored. Sometimes it is even more than 1 gear that goes...I have had as many as three broken gears on the Ferrari, left with only 1st and 5th. That's not much use to anyone! STEPHEN COME ANGUS, SCOTLAND

Typical shoddy European workmanship. Get yourself a nice British car like the Lotus, even if it does have an engine noise like a lawnmower on a cattle grid.

### US USER'S UK YUK!

As an American based in the Midlands, I have come to love the great programs put out by English and European software companies like Psygnosis and the Bitmap brothers, but not all is per-

fect in paradise. Here are the facts: I have an American A500. dual disk drives and an A501 1 Meg memory expansion. I do not mind some squashed screens due to the system being NTSC based. but I am enraged with the fact that several pieces of software will not work on an expanded US or UK Amiga. So, after complaining directly to several UK and foreign suppliers, I forward this list of programs that will not work on a US expanded Amiga: Dragon's Lair, Readysoft Inc. 1 Meg UK version

Meg UK version
Gauntlet II, US Gold, UK version
Operation Wolf, Ocean, UK ver-

Batman, Ocean, UK version R-Type, Electric Dreams, UK version

Keep up the great work Amiga Format, and yes, everything you have offered on your disks works fine! KEVIN S CHRISTLEY BRACKLEY NORTHANTS

### INFINITE MONKEYS

After reading the August issue of Arniga Format and the tips on Lords of the Rising Sun from Simon Liu, I remembered reading almost exactly the same thing, word perfect, in another mag. Simon Liu must have great psychic powers. K PHILLIPS

### MUNDESLEY, NORFOLK

Plagiarism is one of the most pitiful things. Perhaps Simon Liu sat an infinite number of monkeys at an infinite number of typewriters until they produced the Lords of the Rising Sun tips? Who knows? Simon Liu does, so perhaps he would care to explain. We look forward to receiving his letter.

### MARKED SERIOUS

Serious reviews – why not give each product a mark out of 10? I'm sure many people would like to compare packages. The reviews are excellent though.

LYRINGTON, HANTS

Marks out of 10 seem terribly arbitrary for serious reviews because they differ so much. There are so many considerations of price, documentation, intended use and so on that affect a buy-fing decision that a rating out of 10 is too simplistic. In order to sum up these complex issues, a full review is required. After all, we are talking about soften costs more than £100, not something you should buy on the strength of one mark.



















# AR PACK C Commodore



FREE LIK

advanced computers, which are now emerging as the new standard for home computing, based around the new Motorola 68000 chip. The A500 has 512K RAM and a 1Mbyte double 68000 chip. 68000 chip. The AS00 has 512K RAM and a 1Mbyte double sided disk drive built-in. It can be connected directly to a wide range of monitors, or to a domestic TV set through a TV modulator. Designed with the user in mind, the AS00 features a user friendly WIMP environment and comes supplied with a free mouse. And, when you buy your Amiga from Silica Shop, the UK's No1 Amiga specialists, you will experience an after ervice that is second to none, including a technical support

THE FULL STOCK RANGE: The largest range of Ar AFTER SALES SUPPORT:

FREE NEWSLETTERS: Mai

FREE OVERNIGHT DELIVERY: On all hard PRICE MATCH PROMISE: We will not

FREE TECHNICAL HELPLINE: Full time team of A

A500 Computer £399.99 TV Modulator £24.99 **Photon Paint** £69.95 TenStar Pack £229.50 TOTAL RRP:

£724.43 LESS DISCOUNT: £325.43 PACK PRICE #: £399

A500 Computer £399.99 1084S Colour Monitor £299.99 **Photon Paint** £69.95 TenStar Pack £229.50 TOTAL RRP: £999.43

LESS DISCOUNT: £350.43

PACK PRICE : £649

TOTAL RRP: £229.50

Amegas Art Of Chess £14.95 Barbarian, Ult Warr Buggy Boy £19.95 £24.95 £24 95

SIDCUP (& Mail Order) 01-309 1111 LONDON 01-580 4000

Mr/Mrs/Ms

# RON



### **AMIGA** PRO SAMPLER STU

---

- A top quality stereo sampling system at a realistic price.
- 100% machine code software for realtime functions. HiRes sample editing.
- Realtime frequency display.
- Files saved in IFF format.
- Adjustable manual/automatic record trig level.
- altime level meters

MIDIMASTER

Full Midi Interface for A500/1000/ 2000 (please state model). Compatible with most leading Midi packages (including D/Music). Midi In - Midi Out x3 - Midi Thru.

- crophone & line input 1/4" Jack Din connections. Iftware files can be used within her music utilities.

DATA ACQUISITION UNIT

ONLY £99.99 PLEASE STATE A500/1000/2000

- Variable sample rate & playback TO COMPLEMENT THE SAMPLE DATEL JAMMER GIVES YOU A 5 Special Separate scroll line waveform windows & zoom function with Edit windows for fine securate editing. 3D shot of sound waveform. Wave editor to design your own waveforms or adjust existing ones.
  - OCTAVE KEYBOARD TO PLAY & RECORD YOUR
    - FEATURES:-4 track sequencer up to 9999 events
    - Tempo & Beat controls Mixer Controls on Instruments.
    - Load & Save sequence
    - Works on standard IFF file sour





volts.

A Hardware/Software package with very high spec. including:DIGITAL SCOPE DISPLAY - 2 channel inputs.Manual or continuos display. Timebase 500ms/div to 20us/div-

6 bit flash conversion million samples/sec. PLOTTER DISPLAY

Timebase range 1 sec to 10hrs per

plot.
All features found on units costing thousands of pounds. PRINTER LEADS

ONLY £34.99 **TOTAL MIDI MUSIC** PACKAGE

ONLY £79.99 PLEASE STATE A500/1000/2000

UNBEATABLE VALUE PACK - THE YAMAHA SHS 10 FM MIDI COMPATIBLE GUITAR-STYLE SYNTHESISER, THE ACTIVISION MUSIC STUDIO SOFTWARE PLUS THE MIDIMASTER INTERFACE TO CONNECT TO YOUR COMPUTER SYSTEM

25 pin 'D' to 36 way Centronics parallel lead. 1.2m length.
 A500 or 1000, please state.

**ONLY £8.99** 

SAVE OVER £75

YAMAHA SHS 10 FM

YNTHESISER KEYBOARD
Superbly styled guitar-type
keyboard with shoulder strap.
Top quality brandname.

2.5 octave keyboard. 25 built-in instrument and rhythm

Full MIDI standard ACTIVISION

### VIDEO DIGITISER

- 256 x 256 display with 16 grey
- levels. Realtime frame grab 1/50th
- Takes standard composite Video input from camera or Video reen update 1 frame per sec agle, continuous or buffered
- display.

  Load. Save facilities including IFF
  - Edit picture, cut, copy, paste and
- Special effects, reverse, negative
- mirror, compress, etc. Increase the width of the display to 320 x 256 automatically or
- manually.

  Piugs into the parallel port of young to the power pack.

  ONLY £89.99

Very simple to use.

IDIMASTER INTERFACE

This unit connects your computer to any MIDI instrument. Fully Opto isolated - MIDI IN, MIDI OUT, MIDI THRU. Just plug in and go.

FREE CABLES

3 metre long MIDI Cables completely FREE!! (normally £6.99).

FOR ONLY

NO MORE TO BUY!!



FREE MIDI CABLES

\* R.R.P. over £175



A full feature MIDI Recording stutt channel sequencer with ditime input and full editing dilities. mpletely menu driven - full use control.

MUSIC STUDIO

## **EGITTO** EXTERNAL 3.5" DISK DRIVE Slimline extra low profile unit - only 6" long!

- Top quality fully compatible drive
- mechanism.
  Throughport allows daisy-chaining other drives.
  A superbly styled case finished in
- niga colours. meg unformatted capacity.

Good length cable for positioning on your desk etc.

ONLY £129.99 TWIN DRIVE

ADD \$5 FOR COURIER DELIVERY IF REQUIRED

### EXTERNAL DRIVE SWITCH F DF1 & DF2 controlled.

Switch in/out of external drives. ive on memory allocated for ives not currently in use.

NEW LOW PRICE ONLY

SINGLE DRIVE

Fits between computer & driver(s).

ONLY £9.99



# STEREO BOOSTER SYSTEM ost the output of your Amiga in

- orious stereo. W + 30W power amplifier.
- 5 band graphic equalizer.
- Complete with cables for A500/ A1000/A2000 models. Slimline colour matched metal case with built-in mains power
- adphone socket. ONLY£59.99



# **SPEAKERS**

speaker units in die-cast aluminium shelf enclosures 30 Watts 8 ohm each.

# ONLY £39.99 PAIR



# CODE READER

odel 420, high performance, low est Bar Code Reader. Works with any Amiga/ST compute system (please state which) via the RS232 interface.

tures a built-in self-testing

Can read codes EAN, UPC, Inter leaved 2 of 5, Code 39, CODABAR.

Comes complete with wand, ready Features a diagnostic indicator.

**ONLY £189.99** 



### **REPLACEMENT** MOUSE

- High quality direct replacement for mouse on the Amiga. Teflon glides for smoother
- movement.
  Rubber coated ball for minimum slip
- Optical system counting 500/mm

pecial offer - free mouse mat + mouse house (worth £7.99)

ONLY £29.99 COMPLETE

### **512K RAM EXTENSION CARD**



- Available with/without calendar/
- clock option. Simply plugs internally into A500
- Switch in/out with switch supplied. Fitted in minutes - no soldering etc.
- Accepts 41256 DRams (zero K fitted). With calendar/clock onboard time/ date automatically booted. Battery backed to retain time/date.

ILY £19. FOR STANDARD CARD TO

ACCEPT 512K

### ONLY £34.9 FOR VERSION WITH CLOCK CALENDAR

NB THESE PRICES ARE FOR BOARDS WITHOUT RAM CHIPS, PHONE 0782 744707 FOR RAM PRICES, PHONE FOR LATEST FULLY POPULATED BOARD/RAM PRICES.



- featuring 105 mm scanning width 400 dpi resolution enables you to reproduce graphics & text on your computer screen.
  Adjustable switches for brightness
- A contrast.

  A powerful partner for Desk Top
  Publishing.

  With Geniscan you have the ability
  to easily scan images, text &
  graphics into the AMIGA.

  Printout for Epson compatibles.
- Powerful software allows for paste editing of images etc.
- Save images in suitable format for most leading packages including DELUXE PAINT etc.
- Package includes GS4500 scanner, Interface & Scan Edit software.
- Unmatched range of edit/ca facilities simply not offered other scanners at this unber

### SPECIAL OFFER COMPLETE WITH DELUXE PAINT II &

DELUXE PRINT FOR ONLY £189.99 INCLUDING HARDWARE/SOFTWARE

# TO ORDER

A 6 = 24hr Credi Card Line

Send cheques/POs made payable to "Datel Electronics"

FAX 0782 744292

UK ORDERS POST FREE EUROPE ADD £1 OVERSEAS ADD £3

PRICES AND SPECIFICATIONS CORRECT AT TIME OF PRESS
AND SUBJECT TO CHANGE WITHOUT NOTICE CALLERS WELCOME - Please reserve goods by telephone prior to visit.



DATEL ELECTRONICS LTD., FENTON INDUSTRIAL ESTATE GOVAN ROAD, FENTON, STOKE-ON-TRENT, ENGLAND. TECHNICAL ONLY

0782 744707

0782 744324

# **GURU'S MEDITATION**

### **CULTURE CORNER**

And now a poem

Englebert VonTooter posessed a computer Of quality exceedingly fine. In yellow pyjamas, he sat with two llamas

And guzzled down raspberry wine. But each day at noon, with a boiled

egg and spoon He would stare in despair at the

screen. For then he would wonder, why every blunder

Would appear in a naff magazine. Until one fine day, a magnificent

day As he nibbled his toffee ice-cream, It appeared like magic, and now

life wasn't tragic: He had found the top of the team.

"Amiga Format" Englebert cried,
"It's shown me the way to success!
And as I sit here with my blue
frothy beer,

I can forget all the pain and the stress.

"Yes every month, as I munch down my lunch, I can learn from that wonderful

'zine."
It's true to say, enterprises pay:
He's a millionaire on the scene.

Young folk out there, heed the words he once aired Amiga Format's the way to success! Look through the pages, take them

in stages: For computer entertainment it's best!

By The Honourable Miss GILLIAN MARGARET MCCAFFERTY (21).

Seed up a fiver if you don't want any more of these profiled.

# CAPTAIN WHINGE

"...pish and nonsense it's probably the best operating system ever devised, personally I've never managed to crash it, not once, ever, at all, and even if it did crash I've got every single guru meditation number memorised and know exactly what to do about it, take 000000238967428365(\*&\*\$%)(\* \*^ it's a doddle, just stick a finger in your left ear and do back flips while singing last year's budget deficit figures to the theme tune from Neighbours and everything's hunky-dorey in no time, and as for complaints that it's too difficult to understand Amiga DOS, if some people aren't prepared to have the chip manual implant surgically inserted in their cranial cavity, what do they expect, so I finished my lecture with a quick summary of the joys of ... "

### OH DEARY, DEARY ME

Medium-sized-bodge count for Issue Two: two. Groveilling apologies for saying on Previews that Fallen Angel was from Rainbow Arts when it is in fact from Screen 7. Humble attonement as well for stating that Rick Dangerous was £29,99 when it is in fact £24.95.

It is also a matter of great regret that the word 'suppository' was not inserted into this issue.

THE THIRD ONLY FUNNY COMPUTER JOKE...EVER... EXCEPT FOR THE LAST TWO

IBM have designed a new computer called the Ronald Reagan. It has no memory and no colon.

> All complaints to ANDREW COONEY from WOKINGHAM for that

# THE LADS GAVE 110%, JOHN

A cunning plot has resulted in the Future Publishing Kick Off International Squad receiving: a defeat at the hands of the Electronic Arts All Stars. The squad consisted of Smith, Noonan, Wade and Campbell (from New Computer Express, for it is he).

All four arrived on time for the contest but there was no sign of the EA team. After waiting for a while a strategic decision was taken to retire to the nearby hostely by the name of Hatchetts and imbibe vesselfuls of the fluid served there, known as beer. One hour later the EA team arrived, distinctly sober and raring to go.

The result, sadly, was inevitable: a defeat by 4 games to 3, with one match drawn. Take our advice: don't drink and Kick Off, it can severely damage the ego. A re-match is being organised, revenge will be had.



To prove we are not bad losers, here is the victorious (and sober, matey, the cheating ratbags) Electronic Arts team. From left to right; Rupert Easterbrook, John Roberts, Scott Probin and Kevin Shrapnell.

COMPATTION WINDOWS BY the or and to key serving of the calculat Longs on a local. The behavior of one mixing Careful Econogia is faster feet from Resemblack Recording to Recording the Part Contract and Longs and Recording the Part Contract and Longs and Econogia is Recording to Recording the Part Contract (see Modern Contract). Exercising the Recording the Part Contract (see Modern Contract), Exercising the Recording t

### ADVERTISER'S INDEX ACTIVISION Inside Back Cove DIGICOM 121 MEDUSA AMIGA PD LIBRARY EVESHAM MICROS 15 MEGASAVE 97 SILICA SHOP 197 FIRST MICRO 41 MEMORY EXPANSION LTD SOFTSELLERS 111 APPLIED VISIONS 24 GEORGE THOMPSON SERVICES 74 MIDITECH on SOFTWARE EXPRESS SOFTWARE SUPERSTORE QA HAMMERSOFT MINDSCAPE 122 ASHCOM 82 HARWOOD COMPUTERS 81-81 MIRRORSOFT 11 SOFTVILLE PO 82 BBD DUST COVERS MJC SUPPLIES 14 T C COMPUTERS THIRD COAST TONIC AUDIO 90 115 HI-SOFT 29 BLITSOFT 17 BIT SOFTWARE HOBBYTE COMPUTING NEWTEK 114 HOME BASED BUSINESS OCEAN Inside Front Cover-3, 44,48 103 82 16 BIT CENTRE H.S.V PAGE PLAY TREBLE H COMPUTERS IMAGERY 124 PREMIER MAIL ORDER TRACK COMPUTER SERVICES 94 CALCO 115 CASTLE SOFTWARE JOY OF LIFE ARTS POWER COMPUTING 72 - 73 UK AMIGA 100 COTSWORD COMPUTERS LADBROKE COMPUTING POSTRONIX 46 - 47 US GOLD Outside Back Co 124 85 COMPUTER STORE **PSYGNOSIS** 61, 51,58 VIDEO VAULT 10 DATABRAIN MAIN MEDIA PURPLE PD 79 54 100 VIRGIN DATABASE EXHIBITIONS MANOR COURT SUPPLIES QUADSOFT 122 100 WESTONING SOFTWARE DATABLEY 124 MANDARIN SOFTWARE 93 116 108 DATEL ELECTRONICS 128-129 MATRIX SOFTWARE HIRE SABRE 16 14 WORLDWIDE THE DISC COMPANY 18-19 MAZE TECHNOLOGY 104 WTS 124

SENLAC

124 XENON

M.D OFFICE SUPPLIES

# WHO YA GONNA CALL?



CALL 0734 753267



**The Computer Game** 

© 1989 Columbia Pictures Industries Inc.
All Rights Reserved.

