December 90

Issue 31

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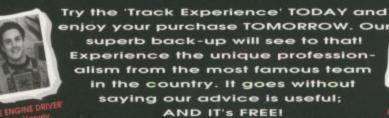
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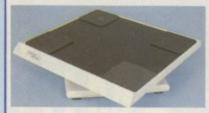
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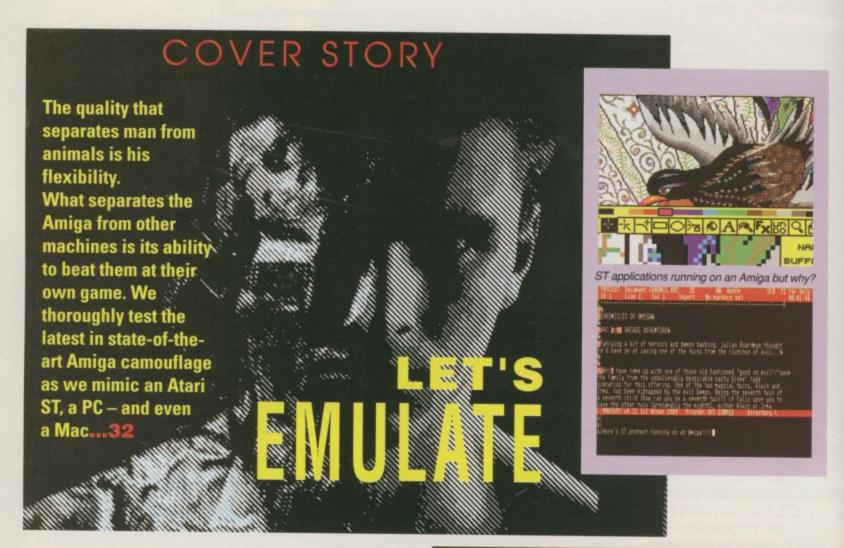


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THE DISK

our disk. And our run of success
continues this month with more of the
best: There's a music composer that
lets you create your own tune from a
simple sampled sounds – and then hear
what it would sound like when played by an entire
symphony orchestra. A Disk Optimiser that dramaticality
speeds up your disk access speed. An incredibly useful
Desktop Diary, Calendar and Organiser. Plus TWO great

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AMIGApeople

Meet the people who make the world of Amiga go round - the people behind the scenes who make it all possible, and everyday users who've found ways of making their Amiga do extraordinary things. PLUS a first look at new Amiga products that are about to hit



DESPATCHES

When your Amy's in a loop, stuff is really in the soup. When little things go "whoop!", you'll find our Ezra is no

PORTFOLIO

Just to prove there's nothing your artistic Amiga cannot do, here's some masterpieces turned out for Amiga Centre Scotland's annual animation

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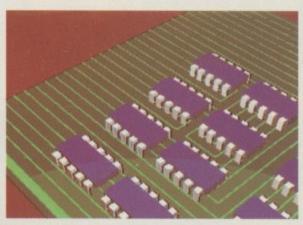
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ALMANAC

The section of the magazine that has something for everyone from music to comms, DTP to graphics. AMOS to machine code. The top experts in their field bring you all the latest news, plus hints and tips that will help you expand your use of the Amiga in ways you may have never thought possible.





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AMOS



You are on a quest to rid the kingdom of an evil Demon and his minions, rescue the princess and restore honour to your king. Your quest will lead you through caves, swamps, temples and castles before reaching your ultimate challenge ... the Demon himself.

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- sters
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Superb gameplay and control of characters makes this a stunning graphic adventure in every sense.

Available for Amiga, Atari ST, IBM PC and C64.



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MIGA

NEW face has just appeared on the Amiga scene. Steve White joins Commodore after seven years with Acorn.

From his position as schools business development manager, he will have the job of developing Commodore's support for both primary and secondary education - a daunting task which takes in 144 local education authorities and 33,000 schools and colleges.

"Commodore's approach to this market is what impressed me most", said Steve. "Its route to become an established educational supplier has been to listen to what the market needs and respond quickly to those needs.

"This teacher-orientated support is exactly the right way to succeed in education, as demonstrated by the Commodore



Steve White...import from Acorn

Business/ Education challenge which is open to all schools and will result in original and creative classroom work that is linked to industry".

BEWITCHED, BOTHERED AND BEWILDERED?

WITH the best will in the world, the well-meaning people who set out to prepare instructional leaflets, training aids and manuals for computers assume that new users have more knowledge than is often the case.

For many, the exciting purchase of a computer soon turns into a mind-blowing worry of confusing switches, ports and leads. They're under pressure from the kids to get the thing up and running.

They grab for the manual and soon after, they grab for the asprin

Enter the saviour of the great bewildered. Graham Kelly is one of the few who has managed to set aside his encyclopaedic

knowledge of the Amiga and cater for those who can just about manage to undo the box.

In fact he goes even further than that and actually shows new owners how to unpack their Amiga in the 30 minute instructional video he has produced on the

Head of the long-established Commodore dealership Trilogic, Graham told Amiga Computina: "We know from answering customers' anxious telephone calls that first time buyers find connecting up and switching on the Amiga for the first time a bit bewildering.

"In this video, we have intentionally assumed that the viewer is a complete newcomer to computers and has no knowledge of the Amiga". To ensure that it

>>> >>>>>

DRIVE FOR THE 500

LEADING American manufacturer of hard disc systems for Amigas. Supra Corporation, have announced the new SupraDrive 500XP for the Amiga 500.

Using micro-power drive mechanisms which consume less than 4 watts of power, the 500XP combines a complete hard disc system, up to 8Mb of ram and many configuration options.

Its autobooting SCSI Interface uses technology similar to Supra's WordSync interface for the Amiga 2000, bringing advanced performance to the 500. It costs \$679 for the 20Mb version.



Supra Drive 500XP ...low power consuption

TOASTY SNACK

A TASTY offering aimed at satisfying Amiga owners' appetites for low-cost 3D animation and paint facilities is on the way from a new company in Kansas.

NewTek has received wide American acclaim for its Video Togster product which includes animation package LightWave 3D and 24-bit paint system Toaster-Paint. Replacing expensive components normally found in broadcast studios, Toaster teams up with the Amiga 2000 to reduce the cost of network-quality television and graphics production. LightWave 3D

• C.G.A., E.G.A., V.G.A., TANDY 16 COLOUR AND AD LIB CARD •

SO REAL YOU CAN NAME OF STREET

THE NO.1 NEW YORK TIMES BESTSELLER

"ROMEO 25 - THIS IS MIKE 77 -SPOT REPORT - 5 T72 TANKS MOVING WEST - GRID 190852 -CONTINUINGOVER

Capt. Sean Bannon snapped his head to the left. There was only one place where the Russians could be, and that was on the hill 2200 metres away. All the training, planning and preparations were over. Team Yankee was about to learn if the team's seventy nine men and twenty five million dollars worth of equipment could do what they were supposed to do.

Team Yankee is designed to test your leadership and tactical skills to the quick. You can display in either "quadrant mode" where all four platoons may be controlled at once

Full-screen Mode where the display homes in on just one platoon.



To the right of the compasses are five icons which represent the various types of weaponry available to the unit.

the quadrant map screen is to alter the movement and formation of any platoon. The whole of the map may be viewed at once, or you may zoom into any portion of the the right of the map



M1 ABRAMS TANK Main Gun Ammo: 55 Rounds Armor Chobham (steel, ceramics, plas Combat Weight: 54.5 metric tons

You have the flexibility to display either an overhead map view of the surrounding area, a simulated 3-d view of the battlefield, or a status screen showing the performance of all vehicles in a platoon. Irrespective of which screen mode you choose during battle, there is a constant column of information to the right of the screen.

MACLINE GUN - which is always available to the player and has an 'infinite' number of rounds

SMOKE - a smoke grenade which allows enemy vision to be obscured.

a high explosive anti-tank round SABOT - an armor-piercing tungsten shell TOW - a high-range anti-tank missile

> at night! Five major scenarios based

on the battles featured in the New York Times No. 1 best seller Team Yankee.



Scroll icon: The four arrows underneath the ETA display allo you to scroll your map in any of the four directions.

red icon, causes your dead halt when clicked

Echelon right

In line - places your vehicles in a line abreast relative to your direction.

to right diagonal relative to your Column - places direction. your vahicles in a line ahead

Engine smoke will prove very useful in confu your enemy if find yourself in tight corner

Rotation icon

imaging This feature is very useful for identifying vehicles camouflaged on the edge of forests. Contary to popular belief the thermal image is green and

places your

vehicles on a left

Zoom. When this icon is accessed the central portion of the screen is magnified by a factor of 10.

Laser range finder. The rang finder will lock on to a reflec target if the firing cursor is placed directly over the obje

Wide formation icon. T ncreases the spacing between vehicles in you platoon to 100 metres. Narrow formation icon This reduces the intervehicle spacing in your

platoon to 50 metres. Vee. a vee formation

Echelon left - places vehicles on a right to diagonal relative to y direction.

Wedge - places your vehicles in a wedge formation.



SOREAL, YOU CAN SMELL THE SMOKE

tank warfare. Watch scenarios unfold on 3D battlefields with high Infra red (or thermal) definition graphics and keep track of the four tank platoons you control using the unique 4 quadrant

display. Defend Hill 214 from Yuri Potecknov's crack tank platoons, attack Objective Link through sniper fire from forests, protect the Langen Gap from an entire Soviet tank battalion

Dead Stop icon. This

relative to your direction. 4 The Stannetts, Laindon North Trade Centre, Basildon, Essex, SS15 6DJ. (0268) 5411

included exactly the information he wanted, Graham made the video himself using a Ferguson S-VHS camera, Panasonic S-VHS VCR, G2 Video Centre and an Amiga 500.

In minute detail, it starts with unpacking the Amiga including a rundown on what should be supplied with it and continues through connecting up, tuning in the TV and loading the demo disc to a brief guide on the Amiga windows system.

"We originally produced the video to include with Amigas we sell but it has proved so popular that it is now in demand in its own right", added Graham.

"We intend to bring out a second video covering more advanced topics which should be available sometime after Christmas"

Called An Introduction To The Amiga 500, the tape is free with Amigas bought from Trilogic (0274 684289) and if sold alone costs £14.99 plus 75p postage and packing.

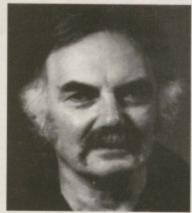
CAT'S CREATOR GOES INTERNATIONAL

AMONG the ranks of avid Amiga People, one of the most interesting, successful and downright friendly members is Stan Hayward, the creator of that internationally loved cartoon character Henry's

He doesn't make money out of the machine. He doesn't even own one. But he is a staunch ambassador of the Amiga both in this country and abroad.

Stan's support for the Amiga comes from his unstinting work with children. He teams the 2000 with a Chromacolour system and his own talents to bring the joy of animation to thousands of young-

Through workshops, Stan uses the computer to open up new areas of learning development for children as young as four and especially for youngsters with learning difficulties. If it were not for the Amiga, they would be denied the pleasure and stimulation of seeing their drawings come



Stan Ha ywood

to life - a skill from which Stan has made his living for 30 years.

"I work totally with the Amiga. I suppose you could say I'm its biggest salesman", he told Amiga Computing, "I do Henry's Cat to earn my living but I do the computer animation with children for

When interviewed for Amiga People, Stan had just stepped off a plane from Canada where he had been sponsored by Commodore to run workshops at a huge animation festival. While in Canada he made many contacts, particularly among the

American Artists in Therapy movement. Undaunted, he is soon to run a teachers workshop in Lewisham and has plans to extend his animation therapy into hospitals and prisons, intending to attract more commercial animation companies to lend their sup-

"I am currently working on a new Henry's Cat series for America and there are plans for a new Chromacolour animation package featuring the character", he said. "It will include a scaled-down version of the Chromacolour system specially designed for use in schools, will use Deluxe Paint 3 and will come with a whole range of Henry's Cat movements on disc. Of course, it will be based around the Amiga".

AMIGA, THE GREAT LEVELLER

IT isn't often that a lowly bobby can get the drop on his Chief Super or a traffic warden can tell the CID a thing or two.

The police force is not a body

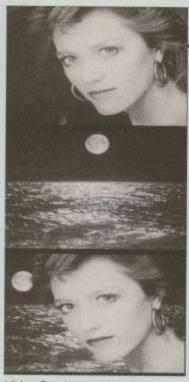
includes modeling, animation and rendering, all integrated into one point and click interface.

ToasterPaint brings broadcast resolution and a full palette within the reach of graphic artists.

Through the built-in frame grabber, users can point on still video frames or create original art in more than 16 million colours.

Video Toaster is a card which fits into the video slot of the Amiga 2000. As Amiga Computing went to press, it was undergoing final tests and should be available soon.

For more details, NewTek are at 215 East 8th Street, Topeka, Kansas 66603 - ring 0101 913 354 1146.



Video Toaster graphics in action

PRO APPROACH

>>>>>>>>>>>>

CANADIAN firm Eschalon Development have produced a cue marker and position. set of professional video utilities for use with the Amiga. Programs include Subtitler, Crediter, Prompter, Image Presenter and Ascension.

Subtitler allows users to import text from a wordprocessor and set font sizes at the click of the mouse to produce subtitles for films and videos.

Crediter scrolls text at any speed with a variety of font sizes and styles. Users simply type in text, change the setting and start the VTR.

Prompter is a complete

teleprompting package. With various fonts, styles and video modes, it easily controls speed,

Image Presenter is an image display program totally controlled through ARexx. Its built-in script language also allows fancy wipes and transitions.

A powerful multi-media presentation tool, Ascension offers an easy-to-use point and click interface and a scripting language. It fully supports sound, samples, speech, animation and stills.

Also included in the package are a side text scroller, video pattern, colourbar, safe area and background generators and video slate plus nine fonts, four

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people people

which easily adapts to role reversal but the Amiga is currently changing all that.

One night a month, that worldrenowned centre of crime detection Scotland Yard hosts a unique band of Amiga people – The Metropolitan Police Amateur Computing Club.

When the traffic men turn off their blue lights, the detectives for-sake their latest stakeout and the wardens put away their note-books, computing comes to the fore for the 600 club members. Treasurer of the club and leading light of its popular Amiga section is PC Stuart Fairclough, a member of the Bow Traffic Division which covers the whole of East London.

Open to all 27,000 police officers of The Met, to specials and to some civilians working for the force, the club has a growingmembership.

"Whenever you get a group together, there is always a copper who is an expert on something from plumbing to carpentry", said Stuart. "It's the same with computers. We have a lot of people who are starting out and haven't got a clue and we have members who can pass on their knowledge on anything from wordprocessing and DTP to viruses and databases.

"On the Amiga front, I decided to arrange a monthly series of informal talks coving a whole range of Amiga topics and I also edit a lively Amiga section in our quarterly newsletter.

"The meetings are a good laugh, more like a social club, but instead of talking about golf or some other topic, we play with computers. I'm just a police constable but I can see someone at the club, chat to him about the Amiga then realise he is a Chief Super".

The club includes many champions of the Amiga. Stuart started his computing on a C64 but soon became a convert.

"Once I had the pennies it was straight down to the shop to buy an Amiga 1000", he said. "Now more and more members are going for the Amiga with young club members starting to upgrade to the 2000".

Although the club is purely a

social organisation and nothing to do with the official police computer system, members do pick up useful ideas which help them in the increasingly computerised world of crime fighting. One member has developed a computerised key-holder database to replace the manual card files previously used to keep records of official key holders.

"I'm no expert, but I get a lot of club members ringing me up with questions about their Amigas", added Stuart. "The only thing I draw the line at is calls after 10pm. When I'm on the early shift starting at 4am, that's just not on".

FEELING GOOD AND DRY

EXETER'S licensees are rumoured to be weeping over a dramatic drop in bar takings. The beer's not off, so what can be the cause of this worrying phenomenon? The blame can be laid squarely at the door of Commodore's CDTV.

That chirpy Amiga person Jeremy Rhill and his cohorts at Digita International (0395 270273) have been up to their eyes in Dr. Feelgood, their massive health education program aimed at CDTV and backed by Commodore. 0

"It got so bad that we've been practically chained to the office", reported a jaded Jeremy. "We've even had to do our drinking at our desks".

On the more serious side, Dr. Feelgood was first mooted in a conversation between Jeremy and Commodore's David Pleasance at this year's Spring European Computer Trade Show.

Meetings with Commodore's top American lady Gail Wellington followed and the project landed Digita with three months of hard graft.

Not surprising when you look at the content which takes full advantage of the huge scope of CD.

"It has turned out to be like a home health encyclopaedia", said Jeremy, "It covers First Aid, what to eat, what to drink, how to exercise, what not to touch, what vaccinations you need for which countries and facts as diverse as

new

colour fonts and a variety of brushes.

In Canada, the package costs C\$299.95. For details of UK availability, Eschalon Development can be contacted on 0101 604 520 1543. They are based at Renaissance Square. New Westminster, British Columbia, Canada, V3M 6K3.

MAKING MUSIC

PROMISING that they will bring "professional quality Midi sequencing within the reach of thousands of Amiga owners", Gajits Music Software (061-434



Amiga goes back to school

2768) have announced a new music program Sequencer One.

It features 32 tracks, real and step-time music entry, high resolution recording, graphic displays and editing facilities and comes with helpline support.

EARLY START

CONTINUING their assault on the education market, Commodore have launched a follow-up to their successful Class of the 90's package. Called First Steps, it is

designed to meet the needs of a wider range of users, including youngsters from five upwards and first-time Amiga people.

Based around the Amiga 500, it has been officially endorsed by NAPE, the National Association for Primary Education and costs £599.95. It includes the upgraded IMb Amiga and eight software packages which would cost more than £1,000 if bought individually.

"With First Steps, Commodore has a really strong educational package that will meet the needs of teachers, parents and pupils, particularly in primary schools", said Commodore's national busi-

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IS YOUR AMIGA STILL IN THE STONE AGE?

- Faster than the Commodore A3000
- 600% Faster than your Amiga
- Massive 4Mb of superfast memory
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 Plug-in upto a 50 MHz Maths Co-Pro Advanced 32-bit design
- 32-bit Kickstart Six times Faster
 Three models 16.67/20/25 MHz

THE MACHINE

CPU: 16.67 MHz Asynchronous MC68020RC16 2-3 MIPS (8 MIPS peak) PPU: 16.67 MHz Asynchronous MC68881RC or MC68882RC RAM: 4 Megabytes of 32-bit zero-wait-state 256 x 4 80ns DRAMs SHADOW ROM: Move your Kickstart into 32-bit SUPER-FAST-RAM SOFTWARE: 68000 Fallback mode for 100% software compatibility HARDWARE: 100% compatible with Amiga 500/2000 and add-on cards INTERFACE: Plugs into 68000 processor socket inside your Amiga

68881 - £99 1 Mb RAM - £69

(INC VAT & DELIVERY) BASIC MODEL - 68020 (16 MHz) + 1 Mb RAM



SOLID STATE LEISURE LIMITED



people people

how to ring for an ambulance in Mozambique".

Covering 186 countries, it also includes an obstetric section from planning a family through pregnancy and childbirth to baby care, childhood ailments and adolescent problems. Dr. Feelgood includes nearly one million words of information complete with graphics, music and sound effects.

A portable studio was moved to Digita's Exeter headquarters where commentary was added by former STV presenter Kenneth McLeod and tape editing of both voice and music kept the oil burning through many a midnight.

The result promises to be one of the stars of the CDTV revolution and the never-daunted Jeremy is also working on modular floppy disc versions for traditional computers plus a book.

"It has demanded my entire involvement over the past three months", he said. "It turned into such a huge project that I don't know if I would ever undertake such a thing again".

There's hope yet for Devon's alling licensed trade.

WIDER AUDIENCE FOR AMIGA ART

CHESHIRE photographer Richard Tucker has come up with a useful service for Amiga owners who want a wider circulation for the pictures they create on their screens.

He converts picture files into slides from all formats including overscan and HAM. Richard also digitses slides using an RGB grabber and high quality RGB camera. These pictures can be saved either as IFF or IFF24.

"I had been doing this for my own use on another computer for some time when a number of people asked me if I could do it for the Amiga", he told Amiga Computing. "I discovered that the system would work well with the Amiga and it has proved to be very popular.

"Some Amiga owners want slides of what they have produced just for their own interest but the service is particularly useful for those who want to show their pictures to magazines with a view to them being published".

The one-off cost of a slide is £4 but lower prices are available with larger orders. Ring Richard at RTP on 0270 764705.

ADVENTURE WRITING MADE EASY

TONY Heap is a man with a mission. Having specialised in writing text adventures through his company Heyley Software, he now aims to encourage other Amiga people to write their own adventures.

To do this he has produced Hatrack II, an interactive adventure generator which allows even the novice computer buff to write text adventures without the hassle of programming.

A fully interactive package, Hatrack II allows adventurers to play-test their creations then cut down development time by interrupting, examining and altering the state of play. Features include built-in multiple sentence parser; mouse-driven graphical compass/control panel designer; total control over screen layout and the facility to generate your own adventure game disc.

A special program produces standalone adventures which can then be freely distributed without permission. Hatrack II costs £29.95 and Tony has plans to produce a graphics version.

He can be contacted at 27 Winnington Road, Marple, Stockport SK6 6PD.

DISCORD DELUXE

RUMOURS are going the rounds that Electronic Arts are to produce a new version of their popular Amiga melody package Deluxe Music. But they're ugly ones, according to EA spokesman Simon Jeffery.

"There's nothing solid happening on that front at the moment", said Simon. "It could be a possibility for the very far and distant future but not at present".



ness development manager for government and education, Peter Talbot.

SEE IT NOW!

VISITORS to December's Computer Shopper Show will have a unique chance to see Commodore's innovative CDTV. In action months before it goes on the market.

CDTV will be used to show off Dr. Feelgood, the massive health education program written specially for it by Digita International and backed by Commodore.

Since its launch at the Consumer Electronics Show in



Chicago earlier this year, CDTV (Commodore Dynamic Total Vision) has only made UK exhibition appearances behind glass.

DOUBLE ACT

COMMODORE'S A3000 and design software X-CAD have proved to be a winning combina-

tion by fighting off strong competition for a huge order from Hamworthy Engineering, one of Britain's largest engineering companies.

UK systems house Applied Vector Technologies (071-603 3313) have just completed installation of more than £190,000 worth of Amiga 3000s and peripheral equipment.

THINKING BIG

AMIGA owners can now explore mainframe-compatible software through a new version of the APL language launched by Britain's leading specialist supplier

MicroAPL (071-922 8866).

The interpreter APL68000 Level II is designed for maximum compatibility with IBM's mainframe APL2 product.

It runs on multi-user Unix machines such as the NCR Tower plus single user micros including the Amiga.

Nested arrays, selective assignment and user-defined operators are among the many features of the language specification and Level II also includes windowing interfaces.

The Amiga version, including coprocessor support, costs £299 with an upgrade price for existing users of £184.

erry Christmas from HiSoft

■HiSoft Devpac 2 Assembler/Debugger

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"Devpac has it all plus a lot more" - ST Format, Dec 88

Consistently acclaimed as the best assembler development system for the Amiga. Devpac Version 2 is a complete package including:

- Powerful, extremely fast assembler with macros, conditional assembly, include, optimisations, local labels, multiple hunks, producing executable or linkable o/p.
- Advanced, multi-window symbolic debugger with single-step, dynamic conditional breakpoints, full expression evaluator, disassembly to disk etc.
- Integrated, fast and easy-to-use editor so that you can create, assemble, debug, edit, assemble etc. all without leaving the editor. CLI versions are also included for those who have strong editor preferences.
- Fast Linker, standard 1.3 Include files and full documentation.

With full technical support and constant improvement, Devpac has no rivals - most of the top software houses who develop on the Amiga use Devpac - why don't you?

SAS/Lattice C ver 5.10 New!



... a very professional package** - Transactor May 89

Quite simply, SAS/Lattice C 5 is the best C system you can buy for your Amiga. Having sold more than 12,000 copies worldwide, the package is used by professionals & hackers alike. Upgrades from version 5.0x cost £34.95 - send your master disks back.

- Powerful, enhanced C compiler with full 68020/68030/68881/68882 support plus screen editor, faster linker, assembler, librarian, code profiler, disassembler & more.
- Advanced global optimiser which gives your programs performance improvements of up to 40%. You can optimise for execution speed or program size.
- The CodeProbe source level debugger with 4 separate windows, allowing you to single-step through source code, set source line breakpoints, examine, modify and continuously monitor your C variables and much, much more - invaluable.
- Workbench 2.0 support and environment, AREXX support, C++-style comments

SAS/Lattice C 5 has improved ANSI compliance, function prorotyping, is multi-tasking & re-entrant, has nearly 300 library functions and comes complete with full technical support.

■HiSoft BASIC Version 1.85 with Extend:



"HiSoft BASIC is an excellent choice" - ST/Amiga Format March 89

HISoft BASIC is the answer to your programming prayers, an extremely fast, interactive standard and easy-to-use system, used by many top software houses all over the world.

- Modern, structured programming with long IFs, multi-line functions, subprograms, REPEAT, DO, CASE, full recursion, local & global variables etc
- No limits to your program size and no limits on the size of any variable, memory permitting, plus the ability to link easily with C and assembler programs
- Totally interactive system with easy-to-use Intuition editor allowing mistakes to be corrected simply and quickly, substantially reducing development time
- Extremely close compatibility with AmigaBASIC and Microsoft PC QuickBASIC 3

Complementing HiSoft BASIC, *HiSoft Extend* is a comprehensive set of library routines for IFF files, gadgets, menus, sub-menus, sound, HAM mode and more. Normally costing £19.95, we are including this package, for only £5 extra until 1 January 1991, if you use the order form below.

Special Christmas Offer to Amiga Computing Readers

Use the order form below to order any HiSoft products and we will send you, totally free of charge, an Amiga Starter Pack consisting of: a mouse mat with the Amiga ASCII character set, a stylish disk wallet holding up to 8 disks and 4 quality double-sided diskettes; a package worth over £14 if bought elsewhere!

Please rush me the following software together with my free starter pack: (all prices include 15% VAT and postage and packing within UK. Please phone for export details)

Name

Address

Devpac Amiga 2

£59.95

SAS/Lattice C 5.10 £229.00

HiSoft BASIC & Extend

£84.95

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High Quality Software

Shopper Show

More space, more stands and more bargains at computing's annual Christmas extravaganza

HRISTMAS bargains are the name of the game at The Computer Shopper Show. The 26,658 visitors to last year's inaugural show at Alexandra Palace saved around £1 million on special offers.

An exit poll of attendees revealed that in excess of 95 per cent considered purchases there had resulted in "substantial savings" with reported figures ranging from £50 to £1,000.

This year the larger venue of Wembley Conference Centre will accommodate many more stands and with an extra day added. Shopper '90 is tipped to double that record.

Making its exhibitions debut at Shopper will be the Amiga version of K-Spread 4, the latest accounts package from Kuma. Also there will be Adimens 3.0, an advanced relational database produced in association with ADI of Germany. Kuma will be offering special show prices on K-Roget, their computerised Thesaurus.

New at Shopper will be an improved version of Micro English, the educational package from LCL. It has been specially designed to

cover the new oral communication section of the 1991 National Curriculum syllabus and will be seen along with a wide range of other LCL education packages covering Maths, English and French.

AMOS: The Creator from Database Software already has a huge following and fans of this creation package will have their first chance to see the next in the series, AMOS 3D, demonstrated.

In a big screen presentation, traditional to Database Software's exhibition appearances, AMOS 3D will be put through its paces along with the latest in the successful Fun School educational series, Fun School 3.

The Amiga Light Phaser Gun, the centrepiece of the US Action stand, will be bundled with a new hunting

game. Also featured will be ram expansions and a tutorial disc for Deluxe Paint.

Shareware for the Amiga will have its spot at Shopper on the Advantage stand, which will also include many useful peripherals, while Andrews & Cowen will be selling Amigas together with external drives and a range of leisure software.

Those who want the new Version 5 of word processing package Protext, will find it on the Arnor stand along with their database program Prodata. Good deals on Amigas, plus a wide range of peripherals, will be on offer from Brighton Computer Supplies and many visitors will have their first chance to see the Amiga version of the popular Flexidump package from Care Electronics.

Expandable upgrades for the Amiga, Kick Start cards and virus protectors will be the offerings from new company European Peripheral Distribution, making their Shopper debut, while Evesham Micros will be selling external drives, printers, ram upgrade boards and a variety of software at attractive prices.

G&S Computers will be giving demonstrations of energy management systems while offering good deals on Amigas. GPS will be unveiling a number of new Amiga software titles from the USA. Among the offerings from Gasteiner Technologies will be the Amigacompatible Gasteiner Mouse.

Shareware discs including games, utilities and business packages will be featured on the Gemini Software stand, and Harpers will feature Amiga hardware and a variety of interesting accessories.

Amiga machines, software and peripherals will be on sale by Micro Anvika while Microtext will be featuring their teletext adaptors with supporting software.

In addition to seeking customers for their Amigas and software, Miles Better Software will also be using the Shopper Show to seek out a suitable distributor for their Amiga tracker ball

As well as running the Computer Football Association finals at Shopper, Mutant Software will have a range of games on sale and public domain buyers will be catered for by Public Dominator.

Rombo will feature their Vidi-Amiga frame grabbing package and more public domain packages will be on offer from both Senlec PD Library and Softville.

When Silica Shop go to a show they usually pack nearly all their stock on to the stand. This year's Shopper Show will be no exception. Among their bonanza of Amiga buys will be ATonce, the world's first 80286 PC AT emulator, Vortex hard

Major Promotion

AS part of its promotions for The Computer Shopper Show, Blenheim Database Exhibitions have launched the largest ever leaflet distribution for a show of this kind. One million leaflets have gone out to potential visitors with 19 issues of the UK's top computer magazines.

They are also being mailed directly to the 26,658 people who attended last year's show at Alexandra

Underlining the scope of this exercise, the leaflets weigh in at five tons and if laid end to end would stretch from Bristol to Leeds.



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discs, text editor Cygnus Editor II plus the file convertor and image manipulator The Art Department.

Amiga specialists Third Coast Technologies will be offering disc drives, printers, monitors, memory expansion boards and video genlock systems, while WTS Electronics will give good deals on hardware for the Amiga 500.

This will include Mammoth Memory 512k ram expansion, external disc drives and a power supply unit. WTS will also be pleased to fell visitors about their repair and upgrading services.

They're on their way to Wembley

Thousands of computer football players have their sights firmly set on the game's traditional home as they vie for a place in the Computer Football Association Challenge Cupfinals to be played at The Computer Shopper Show in December.

And as well as chasing national

ASSOCIATION ASSOCIATION

honours, they could face the best that Europe has to offer when Shopper becomes the venue for the first European Cup of the computer world

Formed by Steve Anderson of Mutant Software, The Computer Football Association is dedicated to promote excellence in soccer simulation on home computers. For its first ever Challenge Cup competition, it has chosen Anco's Kick Off and Kick Off 2 played on Amiga machines. It will hold the quarter finals, semi finals and final at Wembley Conference Centre on the Sunday of Shopper, December 9.

Already more than 5,000 players have signed up for the preliminary rounds to be played throughout the country. The eventual winner will scoop the 1990 Challenge Cup and a prize of £1,000. A trophy and £500 will go to the runner-up while the last 16 will each receive a medal and £100.

The Italian champion has been lined up to take on the eventual UK champion at Shopper. Organised by the Milan-based K Magazine, the CFA championship has taken Italy by storm with 15,000 entrants. There are also moves to attract the soccer simulation champions from France and Germany to test their skills at Shopper.

"Support for the competition is amazing", said Steve Anderson." At the moment entries are rolling in at 20 a day. We hope to get a big screen put in at The Computer Shopper Show so that supporters and spectators will get a better view of the excellent computer football in store. With such a big entry, the players who win their way through to the final rounds will really be worth watching".

The shop for Santas

THE Computer Shopper Show is going for a record. In line with its Yuletide atmosphere, it aims to pack in the largest number of Father Christmases ever collected under one roof.

Stands will be seasonally decorated for an exhibitors' competition and staff manning

them have been asked to turn up in Santa garb.

With 280 stands and co-operation from exhibitors, visitors young and old could be faced with the unique specticle of between 600 and 1,000 bearded gents.

The only request is that they leave their reindeer at home!

Helping hand for charity

THE Computer Shopper Show 1990 will be used as a vehicle to raise money for The Starlight Foundation, a charity set up by Dynasty actress Emma Samms to grant the wishes of seriously ill children.

Starlight has been operating in America since 1982 and now has thriving offshoots in Britain, Canada and Australia. Through its work, wishes as diverse as flying in a jet fighter, meeting Santa Claus in Lapland, owning a puppy and marching with the Scots Guards have been arranged for critically ill and handicapped youngsters.

"We are delighted to work with Blenheim Database, organisers of the Computer Shopper Show, who are pulling out all the stops to help us during the event", said Starlight's lya Shelpbart.

It's so easy to get there

With such a wealth of products on offer – and much more besides – Amiga owners will be thankful that the new Wembley show venue is easily accessible.

By Underground, the Jubilee or Metropolitan (Stanmore) lines take you to Wembley Park, and at peak times Bakerloo can be taken to Wembley Central.

Regular trains run to Wembley Central from Euston or Broad Street and to Wembley Stadium from Marylebone. Wembley is easily reached by car from the M25, M40, M4 or M1.

The show runs from Thursday

December 6 to Sunday December 9 at Wembley Conference Centre and will be open from 10am to 6pm on the Thursday and Friday, 9am to 6pm on Saturday and 10am to 5pm on Sunday.

Admission is £5 for adults, £3.50 for children under 16 with £1 off for tickets booked in advance. Also available is a pre-paid family ticket covering two adults and two children for £12.

For fast and easy credit card bookings, the 24 hour hotline number is 051-357 1736.

 There is a voucher for reduced priced tickets on Page 43.

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1. A500/A1000 8Mb Expansion (2, 4, or 8Mb). Fully implemented autoconfigure. Fully operational through port for compatability with other autoconfiguring hardware (e.g. CBM A590). Complete with its (2Mb FITTED). £299 own power supply (U.K., U.S. or Euro).

2. As above, but with the cover removed.

3. A2000/A2500/B2000 8Mb Expansion (2, 4, 6 or 8Mb). Fully implemented autoconfigure. Uses 1M x 8 bit or 1M x 9 bit (2Mb FITTED). £249

4. A500 ½ Mb Expansion. The essential A500 upgrade. A high quality A501 equivalent using low-power 1 Mbit DRAM's. The unit has a "enable/disable" switch and is available with or without NiCad battery-backed clock/ (CLOCK VERSION EAT) £35 calendar module.

5. External 3.5" Floppy Drive (not pictured). High-quality silent mechanism. Extra drive port and "enable/disable' switch.

Hard disks. Systems available for all Amiga variants call for details and pricing.

CHIP UPGRADES

"Fatter Agnus" chip (8372A) for A500/A2000. Enables up to 1Mb of Chip £60 RAM, Fitting requires some skill and will invalidate your warranty.

1.3 Kickstart ROM. Upgrade for A500/A2000

£33 A590 Upgrade chips: 1/2 Mb £34, 1 Mb £62, 2 Mb £120

SIMM's. All types available. Call for pricing. A3000 4 Mbit Static Column Dram call for pricing.

All prices include VAT and postage & packaging. Prices may be subject to change without notice. All products carry a 12 month guarantee. Dealer enquiries are welcome.

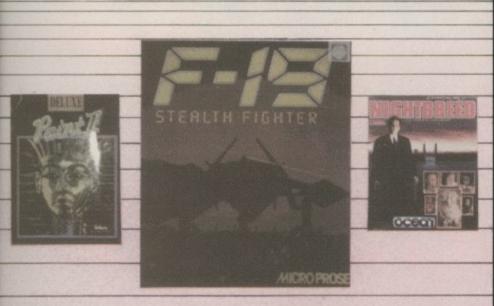
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F-19 Stealth Fighter
The Ultimate Flight Simulator game from Microprose via

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Digicom offer you the very best in customer after sales support with 12 month warranty on all Computer Hardware. All units are full UK specification with 30 day replacement guarantee on faulty items and FREE collection of the defective units within this period. And should you ever need any technical advice our experienced and helpful staff are available on the telephone or in our showroom. Remember - there are no hidden extras all prices are fully inclusive of VAT and next day courier delivery. Prices & Specifications are subject to change without notice \$4.05.



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did all this... and much more!



Cartoon Capers: Hilarious paw to claw fighting game with attention-grabbing digitised sound effects [Available soon]



AMOS Paint: A feature-packed art program with fast zoom function and amazing flexibility [Available soon]



Mouthtrap: Super-fast and superplayable arcade-style game with cleverly animated cute graphics [Available soon]



Reversi: A stunningly presented Public Domain version of the classic Othello game with smoothly rotating counters.



Jukebox: Plays a selection of music files with colourful, animated Vu-meters and spiralling logo [Public Domain]



Treasure Search: A Public Domain educational coordinates game for over 5s with amusing digitised speech.



SkateTribe: Super-fast vertically scrolling skate game with bags of playability and captivating music [Available soon]



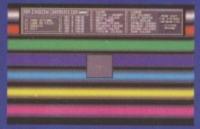
Arcadia: Breakout at its best – with a colourful copper list backdrop and a built-in level designer [Public Domain].



Xerxes' Revenge: Adrenalin-pounding, fast-action horizontally scrolling shoot 'em up game [Now free with AMOS]



Pukadu: Cute arcade-style strategy game with that professional touch to keep you playing [Shareware]



Rainbow Warrior: A very impressive editor which enables you to create copper list backdrops [Public Domain]



Fun School 3: Beautifully animated follow-up to the number one best-selling Fun School 2 [Out now: £24.99]

With UK sales racing past the 25,000 mark since its launch in June, AMOS – The Creator has to be the biggest-selling non-game package ever for the Amiga.

Every day new programs flood into Mandarin's office: Games, educational programs, musical jukeboxes, scrolling demos, font definers – and all are a tribute to the sheer power and ease of use of AMOS. Its graphical power brings an unprecedented level of professionalism to even the most elementary programs.

With AMOS it is simplicity itself to display pictures in any graphics mode (including HAM and overscan); add copper list rainbows; write text using any Deluxe Paint font; overlay windows; add pull-down menus; send software and hardware sprites spiralling round the screen; and add atmospheric music created in Soundtracker, Noise-tracker, Sonix or GMC.

But AMOS also has a more serious side too: Amiga owners are creating icon-driven databases, in-company training programs, home finance packages, CDTV applications and so on.

AMOS is so successful that the independent AMOS

Club already has more than 1,000 members (contact: The AMOS Club, 1 Lower Moor, Whiddon Valley, Barnstaple, Devon EX32 8NW).

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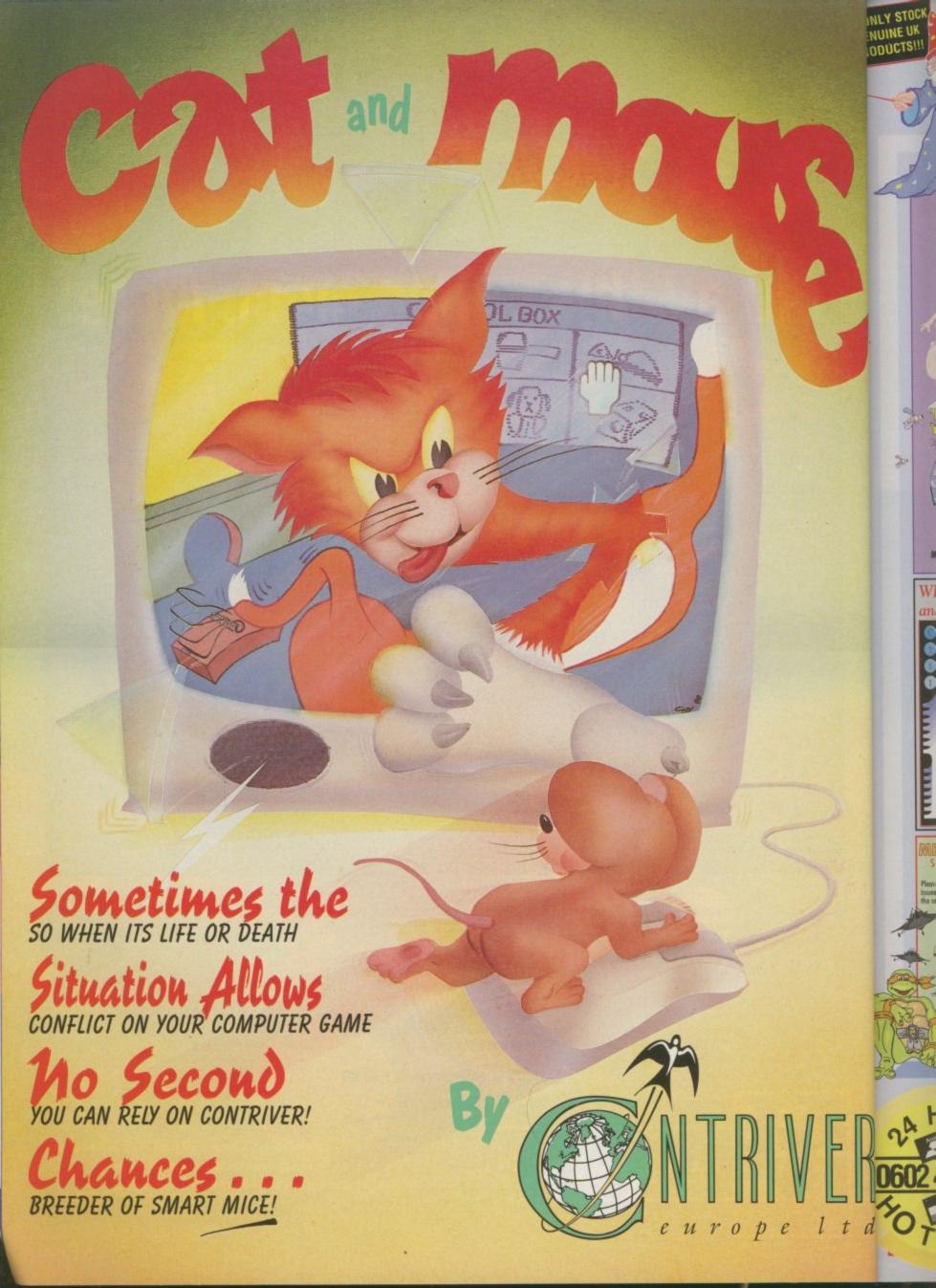
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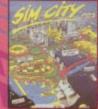
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CHAOS STRIKES BACK EDITOR 10.99 KID GLOVES 7.99 10.99 STATIONFALL (INFOCOM) CHASE H Q 2 16.49 13.49 KILLING GAME SHOW 16.99 STORM ACROSS EUROPE (SSI) 19.49 CHESS CHAMPION 2175 19.99 19.99 KINGS QUEST 1, 2 8.3 (SIERRA) 22.99 22.99 STOS (GAMES CREATOR) CHESSMASTER 2000 8.99 KINGS QUEST 1, 2 8.3 (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS COMPLER CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STRICT HOCKEY 16.49 CHICK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 CHUCK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 COLORAME CEMAN (1 MEG) (SIERRA) 24.99 24.99 LEATHER GODDESSES (BUDGET) 8.99 SUPER MINGON 8.99 COLORADO 16.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MINGE PERSONAL 2 (DATABASE 69.99 CONQUEROR 15.49 15.49 15.49 LEGEND OF THE SURROLL STORM ACROSS EUROPE (SSI) 19.49 SHORE CREATOR) STORM ACROSS EUROPE (SSI) 19.49 STORM ACROSS EUROPE (SSI) 19.49 SUPER MACOS EUROPE (SSI) 19.49 SWORDS OF TWILLIGHT 8.99	AWESOME	21.99	6.49	HARPOON HILL STREET BLUES	19.49	16.40	RED LIGHTNING (SSI)
CHAOS STRIKES BACK EDITOR 10.99 KID GLOVES 7.99 10.99 STATIONFALL (INFOCOM) CHASE H Q 2 16.49 13.49 KILLING GAME SHOW 16.99 STORM ACROSS EUROPE (SSI) 19.49 CHESS CHAMPION 2175 19.99 19.99 KINGS QUEST 1, 2 8.3 (SIERRA) 22.99 22.99 STOS (GAMES CREATOR) CHESSMASTER 2000 8.99 KINGS QUEST 1, 2 8.3 (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS COMPLER CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STRICT HOCKEY 16.49 CHICK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 CHUCK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 COLORAME CEMAN (1 MEG) (SIERRA) 24.99 24.99 LEATHER GODDESSES (BUDGET) 8.99 SUPER MINGON 8.99 COLORADO 16.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MINGE PERSONAL 2 (DATABASE 69.99 CONQUEROR 15.49 15.49 15.49 LEGEND OF THE SURROLL STORM ACROSS EUROPE (SSI) 19.49 SHORE CREATOR) STORM ACROSS EUROPE (SSI) 19.49 STORM ACROSS EUROPE (SSI) 19.49 SUPER MACOS EUROPE (SSI) 19.49 SWORDS OF TWILLIGHT 8.99	BACK TO THE FUTURE 2	16.49	16.49	HIT DISKS VOLUME 2 (MAJOR MOTION, LEATHERNECKS, TIME	0.10		RICK DANGEROUS 2 16.49 RIDERS OF ROHAN 19.49
CHAOS STRIKES BACK EDITOR 10.99 KID GLOVES 7.99 10.99 STATIONFALL (INFOCOM) CHASE H Q 2 16.49 13.49 KILLING GAME SHOW 16.99 STORM ACROSS EUROPE (SSI) 19.49 CHESS CHAMPION 2175 19.99 19.99 KINGS QUEST 1, 2 8.3 (SIERRA) 22.99 22.99 STOS (GAMES CREATOR) CHESSMASTER 2000 8.99 KINGS QUEST 1, 2 8.3 (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS COMPLER CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STRICT HOCKEY 16.49 CHICK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 CHUCK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 COLORAME CEMAN (1 MEG) (SIERRA) 24.99 24.99 LEATHER GODDESSES (BUDGET) 8.99 SUPER MINGON 8.99 COLORADO 16.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MINGE PERSONAL 2 (DATABASE 69.99 CONQUEROR 15.49 15.49 15.49 LEGEND OF THE SURROLL STORM ACROSS EUROPE (SSI) 19.49 SHORE CREATOR) STORM ACROSS EUROPE (SSI) 19.49 STORM ACROSS EUROPE (SSI) 19.49 SUPER MACOS EUROPE (SSI) 19.49 SWORDS OF TWILLIGHT 8.99	BALLISTIX.	6.99	6.99	HITCH HIKERS GUIDE (BUDGET)	8.99	7.99	ROBOCOP 2 15.99 ROCKET RANGER 9.99
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CHAOS STRIKES BACK EDITOR 10.99 KID GLOVES 7.99 10.99 STATIONFALL (INFOCOM) CHASE H Q 2 16.49 13.49 KILLING GAME SHOW 16.99 STORM ACROSS EUROPE (SSI) 19.49 CHESS CHAMPION 2175 19.99 19.99 KINGS QUEST 1, 2 8.3 (SIERRA) 22.99 22.99 STOS (GAMES CREATOR) CHESSMASTER 2000 8.99 KINGS QUEST 1, 2 8.3 (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS COMPLER CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STRICT HOCKEY 16.49 CHICK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 CHUCK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 COLORAME CEMAN (1 MEG) (SIERRA) 24.99 24.99 LEATHER GODDESSES (BUDGET) 8.99 SUPER MINGON 8.99 COLORADO 16.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MINGE PERSONAL 2 (DATABASE 69.99 CONQUEROR 15.49 15.49 15.49 LEGEND OF THE SURROLL STORM ACROSS EUROPE (SSI) 19.49 SHORE CREATOR) STORM ACROSS EUROPE (SSI) 19.49 STORM ACROSS EUROPE (SSI) 19.49 SUPER MACOS EUROPE (SSI) 19.49 SWORDS OF TWILLIGHT 8.99	BATTLE SQUADRON	8.49	16.49	ARTISTS CHOICE CALEFONTS) B HORROR ZOMBIES	6.49	16.49	SECRET OF MONKEY ISLAND
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CHAOS STRIKES BACK EDITOR 10.99 KID GLOVES 7.99 10.99 STATIONFALL (INFOCOM) CHASE H Q 2 16.49 13.49 KILLING GAME SHOW 16.99 STORM ACROSS EUROPE (SSI) 19.49 CHESS CHAMPION 2175 19.99 19.99 KINGS QUEST 1, 2 8.3 (SIERRA) 22.99 22.99 STOS (GAMES CREATOR) CHESSMASTER 2000 8.99 KINGS QUEST 1, 2 8.3 (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS COMPLER CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STRICT HOCKEY 16.49 CHICK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 CHUCK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 COLORAME CEMAN (1 MEG) (SIERRA) 24.99 24.99 LEATHER GODDESSES (BUDGET) 8.99 SUPER MINGON 8.99 COLORADO 16.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MINGE PERSONAL 2 (DATABASE 69.99 CONQUEROR 15.49 15.49 15.49 LEGEND OF THE SURROLL STORM ACROSS EUROPE (SSI) 19.49 SHORE CREATOR) STORM ACROSS EUROPE (SSI) 19.49 STORM ACROSS EUROPE (SSI) 19.49 SUPER MACOS EUROPE (SSI) 19.49 SWORDS OF TWILLIGHT 8.99	BEAST 2 BETRAYAL	21.99	19.49	HYBRIS IMMORTAL (1 MEG)	5.49	16.49	SHOCKWAVE 16.49 SHOGUN (INFOCOM) 18.99
CHAOS STRIKES BACK EDITOR 10.99 KID GLOVES 7.99 10.99 STATIONFALL (INFOCOM) CHASE H Q 2 16.49 13.49 KILLING GAME SHOW 16.99 STORM ACROSS EUROPE (SSI) 19.49 CHESS CHAMPION 2175 19.99 19.99 KINGS QUEST 1, 2 8.3 (SIERRA) 22.99 22.99 STOS (GAMES CREATOR) CHESSMASTER 2000 8.99 KINGS QUEST 1, 2 8.3 (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS COMPLER CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STRICT HOCKEY 16.49 CHICK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 CHUCK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 COLORAME CEMAN (1 MEG) (SIERRA) 24.99 24.99 LEATHER GODDESSES (BUDGET) 8.99 SUPER MINGON 8.99 COLORADO 16.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MINGE PERSONAL 2 (DATABASE 69.99 CONQUEROR 15.49 15.49 15.49 LEGEND OF THE SURROLL STORM ACROSS EUROPE (SSI) 19.49 SHORE CREATOR) STORM ACROSS EUROPE (SSI) 19.49 STORM ACROSS EUROPE (SSI) 19.49 SUPER MACOS EUROPE (SSI) 19.49 SWORDS OF TWILLIGHT 8.99	BILLY THE KID	16.99	7.99	INDIANAPOLIS 500	6.99	16.99	SHOOT EM-UP CONSTR KIT 7.99 SILENT SERVICE (SUB SIM) 8.49
CHAOS STRIKES BACK EDITOR 10.99 KID GLOVES 7.99 10.99 STATIONFALL (INFOCOM) CHASE H Q 2 16.49 13.49 KILLING GAME SHOW 16.99 STORM ACROSS EUROPE (SSI) 19.49 CHESS CHAMPION 2175 19.99 19.99 KINGS QUEST 1, 2 8.3 (SIERRA) 22.99 22.99 STOS (GAMES CREATOR) CHESSMASTER 2000 8.99 KINGS QUEST 1, 2 8.3 (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS COMPLER CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STRICT HOCKEY 16.49 CHOON QUEST 2 8.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 CHUCK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 COLORAME CEMAN (1 MEG) (SIERRA) 24.99 24.99 LEATHER GODDESSES (BUDGET) 8.99 SUPER MING ON 8.99 COLORADO 16.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MORDERBOY CONQUEROR 15.49 15.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MORD OF TWILLIGHT 8.99	BLACK LAMP BLITZKRIEG - MAY 1940	6.49	15.00	INFIDEL (INFOCOM)	7.99	.13.99	SIM CITY
CHAOS STRIKES BACK EDITOR 10.99 KID GLOVES 7.99 10.99 STATIONFALL (INFOCOM) CHASE H Q 2 16.49 13.49 KILLING GAME SHOW 16.99 STORM ACROSS EUROPE (SSI) 19.49 CHESS CHAMPION 2175 19.99 19.99 KINGS QUEST 1, 2 8.3 (SIERRA) 22.99 22.99 STOS (GAMES CREATOR) CHESSMASTER 2000 8.99 KINGS QUEST 1, 2 8.3 (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS COMPLER CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STRICT HOCKEY 16.49 CHOON QUEST 2 8.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 CHUCK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 COLORAME CEMAN (1 MEG) (SIERRA) 24.99 24.99 LEATHER GODDESSES (BUDGET) 8.99 SUPER MING ON 8.99 COLORADO 16.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MORDERBOY CONQUEROR 15.49 15.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MORD OF TWILLIGHT 8.99	BLOOD MONEY BLOODWYCH	7,49	7,49	INTERNATIONAL SOCCER CHALNGE 1	6.49	.16.49	SKYCHASE 599
CHAOS STRIKES BACK EDITOR 10.99 KID GLOVES 7.99 10.99 STATIONFALL (INFOCOM) CHASE H Q 2 16.49 13.49 KILLING GAME SHOW 16.99 STORM ACROSS EUROPE (SSI) 19.49 CHESS CHAMPION 2175 19.99 19.99 KINGS QUEST 1, 2 8.3 (SIERRA) 22.99 22.99 STOS (GAMES CREATOR) CHESSMASTER 2000 8.99 KINGS QUEST 1, 2 8.3 (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS COMPLER CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STRICT HOCKEY 16.49 CHOON QUEST 2 8.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 CHUCK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 COLORAME CEMAN (1 MEG) (SIERRA) 24.99 24.99 LEATHER GODDESSES (BUDGET) 8.99 SUPER MING ON 8.99 COLORADO 16.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MORDERBOY CONQUEROR 15.49 15.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MORD OF TWILLIGHT 8.99	BLOODWYCH + DATA DISK BLOODWYCH DATA DISK	10.49	8.99	IT CAME FROM THE DESERT	0.99	.19.49	SNOWSTRIKE 16.49
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CHAOS STRIKES BACK EDITOR 10.99 KID GLOVES 7.99 10.99 STATIONFALL (INFOCOM) CHASE H Q 2 16.49 13.49 KILLING GAME SHOW 16.99 STORM ACROSS EUROPE (SSI) 19.49 CHESS CHAMPION 2175 19.99 19.99 KINGS QUEST 1, 2 8.3 (SIERRA) 22.99 22.99 STOS (GAMES CREATOR) CHESSMASTER 2000 8.99 KINGS QUEST 1, 2 8.3 (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS COMPLER CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STRICT HOCKEY 16.49 CHOON QUEST 2 8.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 CHUCK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 COLORAME CEMAN (1 MEG) (SIERRA) 24.99 24.99 LEATHER GODDESSES (BUDGET) 8.99 SUPER MING ON 8.99 COLORADO 16.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MORDERBOY CONQUEROR 15.49 15.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MORD OF TWILLIGHT 8.99	CADAVER	16.99	16.49	J. NICKLAUS VOL2 INT COURSES	9.99 6.49	16.49	SPEEDBALL 2 15.99 SPELLBOUND 13.49
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CHAOS STRIKES BACK EDITOR 10.99 KID GLOVES 7.99 10.99 STATIONFALL (INFOCOM) CHASE H Q 2 16.49 13.49 KILLING GAME SHOW 16.99 STORM ACROSS EUROPE (SSI) 19.49 CHESS CHAMPION 2175 19.99 19.99 KINGS QUEST 1, 2 8.3 (SIERRA) 22.99 22.99 STOS (GAMES CREATOR) CHESSMASTER 2000 8.99 KINGS QUEST 1, 2 8.3 (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS COMPLER CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STRICT HOCKEY 16.49 CHOON QUEST 2 8.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 CHUCK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 COLORAME CEMAN (1 MEG) (SIERRA) 24.99 24.99 LEATHER GODDESSES (BUDGET) 8.99 SUPER MING ON 8.99 COLORADO 16.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MORDERBOY CONQUEROR 15.49 15.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MORD OF TWILLIGHT 8.99	CHAMPION OF THE RAJ	16.49	16,49	K-SPREAD 2.0 (SPREADSHEET) 4	2.99	13.99	STADVENTURE CREATOR
CHAOS STRIKES BACK EDITOR 10.99 KID GLOVES 7.99 10.99 STATIONFALL (INFOCOM) CHASE H Q 2 16.49 13.49 KILLING GAME SHOW 16.99 STORM ACROSS EUROPE (SSI) 19.49 CHESS CHAMPION 2175 19.99 19.99 KINGS QUEST 1, 2 8.3 (SIERRA) 22.99 22.99 STOS (GAMES CREATOR) CHESSMASTER 2000 8.99 KINGS QUEST 1, 2 8.3 (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS (GAMES CREATOR) CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STOS COMPLER CHESSMASTER 2100 18.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 21.99 STRICT HOCKEY 16.49 CHOON QUEST 2 8.49 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 CHUCK YEAGERS AFT 2.0 16.99 16.99 KINGS QUEST 4 (1 MEG) (SIERRA) 21.99 SUBBUTEO 15.99 COLORAME CEMAN (1 MEG) (SIERRA) 24.99 24.99 LEATHER GODDESSES (BUDGET) 8.99 SUPER MING ON 8.99 COLORADO 16.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MORDERBOY CONQUEROR 15.49 15.49 LEGEND OF FAERGHIL 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MAG OF ONN 9.99 CONQUEROR 15.49 15.49 LEGEND OF THE SURROL 11.04 17.99 17.99 SUPER MORD OF TWILLIGHT 8.99	CHAMPIONS OF KRYNN (SSI)	1191-1190-10	19.99	KICK OFF	6.99	6.99	STARFLIGHT 16.99
CHASS CHAMPON 2175 109 109 109 109 109 109 109 10	CHAOS STRIKES BACK (1 MEG) CHAOS STRIKES BACK EDITOR	15.99	10.99	KICK OFF EXPANSION DISK	7.99	7.99	STARGLIDER 2 STATIONFALL INFOCOM
CHESSMASTER 2100 18-99 COPHARIE CERNAY I MEGI SERRIA) 18-99 COPHARIE CERNAY I MEGI SERRIA) COCHER 2000 COPHARIE CERNAY I MEGI SERRIA) COCHER 2000 COPHARIE CERNAY I MEGI SERRIA) LEGENDO F THE SWORD CHESSES BUDGETT COPHARIE CERNAY I MEGI SERRIA) LEGENDO F THE SWORD CHESSES BUDGETT COPHARIE CERNAY I MEGI SERRIA) LEGENDO F THE SWORD CHESSES BUDGETT COPHARIE CRAME COLL STATES AND STATES	CHASE H.Q 2	16.49	13.49	KILLING GAME SHOW	6.99		STORM ACROSS EUROPE (SSI)19.49 STOS (GAMES CREATOR)
CHUCK YEAGERS AFT 2.0 16.99 16	CHESS CHAMPION 2175 CHESSMASTER 2000	19.99	19.99	KINGS QUEST 1, 2 & 3 (SIERRA)	1.99	.22.99	STOS COMPILER STREET HOCKEY 18,49
COCO ENDOCOM 1 (160) SEPRA) 24.99 24.99	CHRONOQUEST 2	8.49	10.00	KNIGHT ORC (LEVEL 9)	3.49	13.49	STRIDER 2 16.49 SUBBUTEO 15.99
COLORAD LIROPE 16.49 16.49	CLOUD KINGDOMS CODENAME ICEMAN (1 MEG) /SIERBA	6.99	6.99	KULT	6.99	5.99	SUPER HANG ON 8.99
CONDUERD: CAMPLOT (1 MEG) 2.59 LEGEND OF FLE SWORD 17.59	COLONEL'S BEQUEST (1 MEG) (SIERRA COLORADO	A) 24.99 16.49	24.99	LEATHER GODDESSES (BUDGET)	6.99	8.99	SUPERBASE PERSONAL 2 (DATABASE) 69.99.
CONDUCTED OF CALLED TO THE CONTROL STATE OF THE CON	CONFLICT EUROPE CONQUEROR	15.49	5.99	LEGEND OF FAERGHIL 1 LEGEND OF THE SWORD	7.99	17.99	SUPREMACY 19.49 SWORD OF SODAN 9.99
CRAMEWAYE 1.649 1	CORPORATION AMEGINATION	14.99	24.99	LEISURE SUIT LARRY 1 (SIERRA)19	9.49 5.99	19.49	SWORDS OF TWILIGHT 899 T.N.T (APB. HARD DRIVIN', TOOBIN,
CUTH-BOATS (IPPOCOM) 1.99 - 1.99 LOCK CUTH-BOATS (IPPOCOM) 1.99 - 1.40 LOCK 1.99 - 1.99 LOCK CUTH-BOATS (IPPOCOM) 1.99 - 1.40 LOTH SEPRIT TURBO CHALERGE 17 49 17 49 LOTH SEPRIT TURBO CHALERGE 17 49 17 49 17 49 LOTH SEPRIT TURBO CHALERGE 17 49 17 49 17 49 17 49 LOTH SEPRIT TURBO CHALERGE 17 49 1	CRACK DOWN	7.49	7.49	LIGHT CORRIDOR	4.99 5.99	.24.99 .15.99	DRAGON SPIRIT, XYBOTS) 19.49 TEAM YANKEE 19.49
DAMS OF THUNDER 1549 1549 1549 1549 MUDS REPRIT TURBO CHALLENGE 1748 1749 THE ME PARK WISTERY DEAN THAP 1549 1549 1549 MUDS MEAN DIGLY DIRTY SPORT) 1549 1549 THUNDERSTRIKE 699 DELINKE PAINT 489 3499 MUDS MEAN DIGLY DIRTY SPORT) 1549 1549 THUNDERSTRIKE 699 DELINKE PAINT 489 3499 MUDS MEAN DIGLY DIRTY SPORT 1649 1649 1649 MUDS MEAN DIGLY DIRTY SPORT 1649 1649 1649 MEANCE 549 549 MEANCE 549 1649 MEANCE 549 1649 MIDWINTER STANCE 1640 MIDWINTER STANCE 1	CURSE OF THE AZURE BOND (SSI)	19.99	19.99	LOOM 11	9.49	19.49	THE KEEP 16.99
DELIAY U 6.99 3.99 DELIAY WILLIAM MICHAEL MARKEN DOLLY DERTY SPORTT 15.49 15.49 DELIAY MAGIC FLY MAGIC	DAMOCLES DAYS OF THUNDER	15.49	15.49	LOTUS ESPAIT TURBO CHALLENGE 1	7.49	17.49	THEME PARK MYSTERY
DELLUKE MUSIC CONSTRISET	DEATH TRAP	15.49	3.99	M.U.D.S (MEAN UGLY DIRTY SPORT) 11 M1 TANK PLATOON 15	5.49	15,49	THUNDERBIRDS 4.99 THUNDERSTRIKE 16.99
MAN STREETS	DELUXE MUSIC CONSTRISET	45.99	34.99	MAGIC FLY MANHUNTER SAN FRANCISCO (SIERRA)	6.49	16.49	TIME MACHINE 16.99 TIMES OF LORE 6.99
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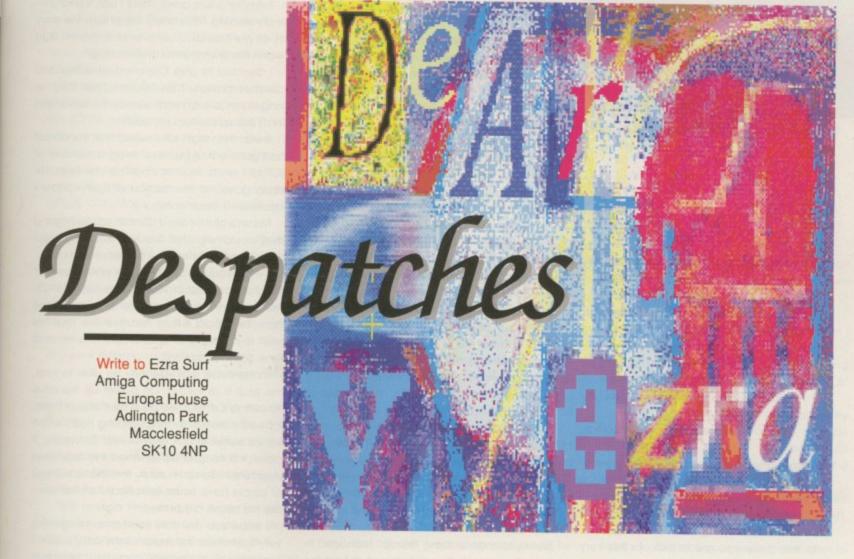
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Code in the head

I AM well into assembly language, in that now I have started to learn how to program in It. I won't be giving it up until I'm coding "scrollies" with the best of them.

Somehow it agrees with me, whereas C did just the opposite. I'm even enjoying it in a rather masochistic way.

I would be grateful if you would answer these queries (even though you shouldn't talk to queries)

1. Can you recommend a book which will go through the fundamentals of the language again to refresh my memory, but then go on to handling the screen quickly? If this is not possible with one book, how about recommending a couple of good ones then?

2. Has AmC ever printed an assembly tutorial in its hallowed pages? (I owned one of those nasty ST things until recently, so I've not been buying AmC for very long.)

3. Which assembler do you advise me to spend my pennies on?

Thank you for reading, and I hope in answering these questions for me. Other would - be coders will benefit too.

P.S. I whole-heartedly agree with Duncan about KO11 and Damocles. At last the truth is

William Rae Ashington, Northumberland.

Well now, if you check out the machine code piece in the Almanac section this month you will see that Jolyon, our resident guru on matters codelike, has in fact reviewed such a

Jolyon also tapped out a large number of features in the past and will be continuing to do so in the Almanac section.

As to assemblers, well basically there are three contenders, Argasm (which is fast), Devpac (which is good) and A68k (which is

All major stockists should have Argasm and Devpac - take a look through the ads. A68k is the official standard for the Amiga, it should be available from all worthwhile Pd libraries and BBSs.

Organised chaos

IN the past I have been able to gain a great deal of help from this section of the magazine, so I am hoping you can help me now with a specific problem.

I purchased my Amiga because, as I am sure you will agree, it is the best computer. It has now grown to 1 meg plus a second drive and all is great, except that I also have a Psion organiser and the 128k data pack is getting full and needs tidying. I understand that the K Comms communications pack will allow my Psion and the Amiga to talk, but I can't find anywhere to buy the lead to connect the two.

The official Psion/IBM lead is available but it comes complete with software for the IBM. which I don't need ,and is naturally expen-

Will the K Comms pack be suitable? And where can I get a lead to connect between the Amiga and the Psion?

P. Neal, South Woodford, London.

Hmmm. I see your grief. Well, absolutely any comms package will work - the lead is the only problem. It may be easier to make your

A serial link will normally only use two lines, so it's really just a question of finding the pin-out details for the Psion.

Are any details included with the Psion? Does anyone out there know off-hand what

Makin' tracks

I AM considering a business in the computer vinyl cutting field, and as far as I can see I have three options.

1. To use the Amiga as it is with the appropriate hardware and software. The trouble is finding the software and hardware that is specifically designed for the purpose of vinyl

2. To buy the necessary equipment so that my Amiga can emulate an IBM compatible. I know there is existing available software and hardware for the IBM.

3. To buy the A-Max 2 to emulate the Apple



Macintosh, but I have know idea about the software and hardware options available for the Mac

As the situation stands I would prefer either options 1 or 2, as I know both these systems very well.

Also, if you could help me, could you please tell where I could buy all this equipment whichever system you decide to recom-

J.Gregson, Hockering, Norwich.

Hmmm. I don't know of any software/hardware for either the Mac or the PC that would do this (although if someone wants to write in and surprise me, go ahead). So maybe PCs are useful for something.

In that case you are in luck. In this very issue is a review of a cheap and friendly PC emulator from KCS. I'd give them a ring first to check compatibility with the software that you are considering.

If they can't help you another PC emulator is to be launched real soon - the AT Once. If you read next month's mag you should get a full review.

Font fault

WITH reference to page 59 of the October 1990 issue and the section "How to make it work", having made room on my working disc as suggested, I then copied over the fonts from my Workbench 1.3 in order to use them to give myself a change.

Not finding a fonts directory, I tried placing it in the following places: As located in the Workbench and Dpaint 2, in the Pagesetter drawer, in the CGFonts drawer But the demo would not show them in the typeface menu.

Is it possible for them to be used with this demo? If so, can you tell me how, in easy steps, as I am still learning how to use the

I almost forgot to say what a great demo Pagesetter is. I am really tempted to buy the real thing.

> R. E. Golding, Werrington, Peterborough, Cambs

Ooops. If booting off the Pagesetter disk (which you should be) the fonts should be located in a directory called "fonts". In fact, there isn't one on the disk ,so you'll have to make one. From the CLI just type "makedir

cd013:fonts". Now you can copy across all the fonts you want.

I should hope you do want to buy PagesetterII - it's jolly good and I'm not just saying that. You might like to know that you can now get it for just £52.95 from Silica Shop (071-580 4000).

Mobile printouts

TO take better advantage of the excellent output of Compugraphic fonts used with Pagesetter II I have recently upgraded my 24 pin Panasonic to a Hewlett Packard Deskjet Plus, which means I can print the Compugraphic fonts to a resolution of 300 dpi instead of 180 dpi.

This is the real reason for my letter. Using the HP Deskjet driver in Preferences I soon discovered that although the first graphic dump after switch-on was correctly positioned at the top of the page, all subsequent printouts were 1/2in lower, as the printer fed this amount of paper just before printing.

After many phone calls to Hewlett Packard and Hi-Voltage, from whom I purchased the printer (none of whom could offer any help or did not want to know mainly because they had no knowledge of the Amiga) I eventually realised that the problem lay with the perforation skip commands embedded in the Preferences driver. Using Filezap I managed to edit the driver so that the driver turns off the perforation skip so that every graphic printout starts in the same place on the page.

If any of your readers has an Amiga driving a HP Deskjet Plus and would like a copy of the modified driver, I would be pleased to send them a copy on receipt of a disk and return

John Farrar, Elm Cottage, 2 Marsh Lane, Hayle, Cornwall TR27 4PS.

Great, thanks a lot for that tip. There are a few happier Deskjet owners out there now.

While we're on the subject of Gold Disk, I'd just like to take this opportunity to say that the editor got it wrong.

The price of Pro Page 2.0 will actually be 395 dollars and so will be around £250 in this

The distribution of Gold Disk software is now spread among Gem, SDL and Precision Software as well as HB, with more to follow in

Disk disaster!

ABOUT six months ago I bought an A590 hard drive. It worked perfectly, so after three months of untroubled use I decided to add 2 megs of fast ram to the drive.

The installation process looked easy (I had already fitted a 1.3 rom successfully), so I decided to do the job myself. I reckoned that if anything was going to go wrong with the drive it would have done so within the first few months, so I took the chance and voided the warranty.

Everything was great, there I was with a perfectly working A590 and 3 Mb of ram the envy of all my friends. That is until a month ago ,when the drive started misbehaving.

I decided to give Commodore a ring and ask their advice. They told me that they no longer ran a technical service for users and that I should contact my dealer.

It was then that I discovered that the dealer had gone out of business. Being a member of ICPUG I wrote to their chairman for help. He kindly gave me the address of Commodore's accredited repair company.

Meanwhile I faxed Commodore hoping they would help (that was four weeks ago and I'm still waiting after three further phone calls).

I was informed by the repair company that the standard cost of A590 repairs was £109.25. The problem is that if I go ahead and send the drive for repairs, I may find that the fault lies with my computer and waste money and time. So what do I do?

In the hope that you may be able to help, the fault is as follows: On power up the drive fan works OK, but the drive itself doesn't spin. Instead it makes an awful clicking noise which varies between 2 - 15 minutes. Obviously, It doesn't auto-boot either. When the drive does eventually 'fire up' I usually find that a number of blocks have errors, specifically on the cylinder the heads are parked.

I hope you are able to help as I'm getting very frustrated. The moral of this story is: Don't buy from small dealers, and don't play with things that are under warranty.

Jim Campey, Brentford, Middlesex.

It does sound a bit like there's a problem with the drive. Did you try removing the ram again? Have you tested any other drive or peripheral on the expansion port? Don't worry about further damage to the drive, it looks like it's going away for repairs anyway.

It seems odd that the drive should start misbehaving in this way suddenly. On bootup does the screen stay white while the drive is being accessed? This would seem to indicate that auto-configure was not taking place (remember that the ram must auto-configure

Part of the problem could be down to power supplies. I know that the A590 has its own, but when ram is added - especially that much there is a further drain on the supply. It depends what type of chips you use.

Demo trouble II

I HAVE just spent a very frustrating hour and a half attempting to get the Pagesetter 2 demo

First, the readme.pp file does not open and disgorge its contents when clicking the icon in Workbench. I attempted to read it by using the TYPE and ED commands in CLI, but was told it contained binary code and couldn't be

Clearly it is not written in Ascil code and is not a .DOC type which can normally be read using those commands. So what am I doing Wro afte any

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Second, when clicking the PS 2 demo icon, after a period of disc drive activity, I get a requester to Please insert volume CGFonts: in any drive.

Choosing the IGNORE option, I get a second requester stating No fonts available on directories FONTS or CGFonts! Choosing the RESUME option merely returns me to the WB screen.

Incidentally, a tip for your other readers. You can delete a directory in one go even if it contains other files. Simply enter the command DELETE DIRNAME? ALL where DIRNAME is the name of the directory you wish to delete.

Finally, there's an error in you article on DPaint on page 94. The 3rd column, 2nd full paragraph states "For nearly all occasions it will be a 256 by 320 screen display". Unfortunately, there is no option for a 256 x 320 screen, only a 320 x 200 as shown on the print of the format: screen at the bottom of page 95. (I assume you were referring to Lo - Res).

K.L.Richards, Tockington, Bristol.

Right. Firstly your problem with the doc file is due to it not being an Ascii text file. It was once, but then to save space it was crunched using Powerpacker. Clicking on the icon will activate PPmore, a file reader that will read the text while it is still packed.

The reason this wouldn't work for you is because you have to boot up on the demo disk. Otherwise Amigados will look in the C: directory on your Workbench disk and so will be unable to find PPmore.

Secondly. Boot up on the demo disk! The startup-sequence contains the assigns required to tell PSII where to find the scaleable font. So there you go. It is always worthwhile looking through the c: directory on the coverdisk to find all sorts of goodies that Jeff has left there.

Lastly. Ok, guilty. It should have read 320 x 256, which is the size of a PAL lo-res screen.

Doubtful disks

SORRY to have tocomplain, but I feel I must take you lot to task. I do like the magazine, it is informative, well produced and gives up-to-the-minute information, and is reasonably well balanced (though I would like to see a little more serious computing information, especially for the less experienced "computer maniacs").

But I have a gripe - yes ,you guessed it I THE COVER DISC!!

Now I do think it is a good idea, but if it is going to be produced, why, oh why isn't it done properly? We have had an Amiga for nearly two years and it started out as a games machine for my two lads.

But we discovered Amiga Computing and gradually I got interested in it, and now we are getting to see how useful all those nice utilities you put on the disk could be. Problem is, very few of them work I

The kids copied the games from the discs (and usually they were OK) and the cover disc was stowed away in the disc box. I now am trying to use such gems as PPShow or Powerpacker, only to find on loading, that

"Error occurred on loading Error code 212" comes up more often than not.

It even happened on this month's cover disc on the two Amos programs !! (Wacky Wabbits worked OK though!)

The last straw was when I looked back to August 89 disc to use disksalve and diskchecker. The programs did not even appear to be on the disc.

I followed instructions from the magazine on using the utilities but diskchecker or disksalve are unknown commands as far as our Amiga is concerned. When I look at the Workbench Icons only the Docs seem to be there.

I know we could return the discs to the suppliers but why should we be without them for a couple of months (or lose them altogether if some of your other correspondents' experiences are anything to go by).

Might I suggest a little more quality control on the production of the master discs would be in order. If this is not economic then I suggest that either the idea be shelved and we go back to paying $\mathfrak{L}1.90$ or whatever for the magazine, or you charge us a little more and we have something that we can use.

Sorry to be critical, but we long-suffering consumers often have to put up with second class devices and non-serviceable goods in the name of the great god economy.

Mr Upset, Southcote, Reading

Well, first off, the Amos programs are to be used in conjunction with Amos, so they won't actually run from Workbench just by clicking the icons. The icons are there just to make it easier to copy the files off to a working disk.

We go to quite unbelievable lengths to make sure that the disks we send out do work. We test the actual programs to make sure they work on all the machines in the office with all sorts of combinations of memory and Workbench versions.

Some of the programs that require extra files and a bit of setting up (like the Pagesetterll demo for example) have a lot of files in the C: directory of the disk and perhaps some extra lines in the startup-sequence to make them work.

Normally there is extensive documentation to allow you to set up the system the way you like, but this may require some undertanding at your end.

That's why it is a good idea to make backup copies of the disk and delete unwanted files to make room rather than trying to copy everything onto another disk. Because of this you may experience problems if you don't boot off the cover disk.

The case of the missing files is down to you. Either the disk was faulty (which is quite unlikely) or you have accidentally deleted them. They were definitely on the disk, as tens of thousands of other users can testify.

Doing a deal

I LIVE in the Netherlands and I have something to say. First I want to excuse myself for my bad English, I hope you can read it.



I want to say that you guys are making a really good magazine. In the Netherlands we have only lone Dutch magazine and it comes only six times a year.

I want to ask you a question. How can I order something in the UK? They say with a money order, postal order or a sterling cheque. But I don't know what all of that is. Can you explain to me how I can do it?

I went to London (nice city), to buy my copy of AMOS. I write AMOS with capitols because it is a super great program. It was not yet for sale in the Netherlands. The Netherlands is always a step behind.

M.Haveman, Ardennenlaan 23, 1966 RS Heemskerk , Nederland.

Thanks for the nice comments. If you want to order something from a company here (and it depends on the company) you have quite a few choices.

To start with, you can get a Eurocheque book from your bank. This means you can write a cheque valid for any currency in Europe..The bank will also be able to help you with an International Money Order, which basically means they will convert your money into a cheque in the currency of your choice.

The easiest way is to use a credit cardelther yours or someone else's (though it might be nice if you asked them first). Access, Visa, Barclaycard, American Express - they're all good for most places, but give them a ring first

Basic blues

I AM currently studying A level computer studles and have just started my final year. I will soon have to start my project, but will have to program it on an Educational Standard RM Nimbus. Due to the size of the project and its importance to my final grade I was wanting to find a way to run RM Basic on my Amiga 500. I have written to a few other magazines (all to no avail) requesting information on any emulators capable of running RM Basic.

I do not wish to buy a hardware emulator such as KCS power board because I will probably have no need for PC emulation after my project is complete and secondly I can't afford it.

What I hope to do is load RM Basic at school on the Nimbus and work on my project and then save the program onto an MSdos

Distinctly Digita

Cleverly written and always favourably reviewed in the press, Digita produces a range of powerful, low cost software for the home and business user.

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The fastest and most powerful spreadsheet available in this price bracket, with 512 rows by 52 columns, giving you up to 26624 cells. As with all Digits products, the operation of the program is clearly thought out. Being either menu, mouse or command driven you'll be able to start using it within minutes — even if you've never used a spreadsheet before. Some of the features which make it such good value are the exporting of ASCII files for integration with other programs, adjustable column width and text overflow, programmable function keys (macros), and a unique windowing facility, so that you can look at different parts of a sheet at the same time.

E-TYPE

Do you ever have to print names and addresses at awkward places on envelopes, or do you ever need to full in tricky forms or invoices where the text has to be in exactly the right place? Usually you have to do it by hand, or get your trushy old typewriter out of the cupboard and dust it off. Well not anymore. The Emulated TYPEwriter transforms your computer and printer into a fully fledged typewriter, supporting bold, underline, italic and other type-styles. Because it can display and print text INSTANTLY you can line up your form, press Return and Space a few times to move to the correct place, and then start typing. Alternatively you can switch to line-by-line mode, which offers word-wrap, justification and proportional spacing, so that you can edit each line before it's printed.

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Are you absolutely sure your taxman is doing his job correctly? Plan your own tax with ease, this menu-driven program will calculate your income tax liability (4 tax years included) and provide pertinent facts about your tax position. You can perform "what-87" calculation to discover ways to minimise your tax liability. In fact, the program will advise you on things such as, if you are a married man, whether it would be advantageous to have your wife's income taxed separately or not. At this price who knows, you will probably find that PTP will pay for itself in tax savings the first time you use iff

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formatted disk. Then load an emulator at home on my Amy and continue to work on the same program.

I have 1Mb of ram, a second 3.5 drive and a Star LC-10 colour printer. Would the emulator be able to use the second drive and the printer? A person I know (I won't say friend because he owns as ST) has a Transformer, but I don't have any information on it and want to know if it will work before I buy it.

Robert Downs. Blackpool, Lancs.

Not being too familiar with RMBasic I reckon it is pretty much like any other Basic. If you don't want to use cunning graphics and suchlike you may get away with just running the programs from Amiga Basic. In that case all you need to do is get hold of Dos2Dos, CrossDos or MessyDos to transfer the files from PC disks.

type

The Transformer does work some of the time. Try getting to know this bloke better, that's my advice. He can certainly let you know whether your software will run on it.

Remember, remember

I want to reply to Simon Champion's letter in the September issue of Amiga Computing about a recommended ram expansion. First, I wonder why someone who is willing to pay for an A1500 seems unwilling to spend money on an expansion. For me, the expansion is a necessity. The A1500 – a luxury.

To answer the real question, Mr.Champion, the best thing you can do is to search the magazine for ads of memory expansions. But to save you the trouble I did just that and came up with the following recommendation: Buy a half mag expansion, which costs £40 or less, and then, when you find out that it's too little, go to Diamond and use their part exchange scheme to change this into an 8M expansion populated to 2Mb for just £99. It's cheap and expandable.

To be honest, I recommend that you don't even buy the 512k expansion.

It's too restrictive Remember, when I bought my A501 two years ago, it cost me £140, and now for the same price you can get 2Mb.

Eyal, Jerusalem, Israel

Polyglot printers

I HAVE some questions for you:

1. I use a Star LC-10 colour printer. When I print a picture the printouts are almost always stripey. Each line seems to be overlapped by one pixel. How do I correct the spacing to solve this problem?

I have read the 1.3 manual, but to no avail. I use the EpsonX printer driver, and I have tried all the Star LC-10 drivers on the August cover disk. The stripes are still there.

2. Your article in the September issue about wordprocessors was very interesting. However, I still have a question: Is there a wordprocessor that will allow me to send escape sequences to the printer? I was thinking about ProWrite or

Pen Pal, because of the possibility to use the Amiga fonts and IFF graphics in a document, but the article said nothing about the possibility of sending escape sequences.

Before I got my Amiga 2000 I used an Amstrad CPC6128, and I used the wordprocessor Tasword. With Tasword, it was easy to send any codes to the printer.

3. Is there a PD program that will convert a IFF HAM picture to a "normal" 32 colour picture (or 64 when using extra Halfbrite)? If you know about such a program, I would like to know where I could get it.

4. I have recently bought a disc full of fonts from a PD library. The problem is that none of them include international characters.

As I am a Norwegian, the Norwegian characters (*) are especially important. Do you know about such a font disk?

Rolf Nordelde, Ostre Hopsvei, 46 N-5043 HOP, Norway.

The lines may be something to do with the micro-spacing of the carriage. Some printers allow you to adjust this. Look up the manual.

I don't think you are going to have any luck trying to find a wordpro with graphics capability that will allow you to send escape codes (though I'm welcome to be proved wrong). You'd be much better off getting PagesetterII. There are plenty of picture manipulation programs. Pixmate is excellent, as is The Art Department, but neither of those are PD.

A while back George Thompson Services put together a collection of such software on a couple of disks. Give them a ring on 077082-234. They may be be able to help with the font problem too.

Oh what a Circus

Recently I bought a copy of Hisoft's Devpac Two from a computer store in Oxford Street, London. I paid £9.95 for It. When I returned home ta few days later, I tried to load the package into my Amiga and found that Disk One did not work.

When I checked the disk I found it to contain no data at all – as if it was an unformatted blank disk. I returned the package to the shop where I bought it by registered post, clearly explaining that I would like my money back, and ordered the piece of software from a (much cheaper) mail order company.

After a telephone call, during which the manager of the store admitted that the software was faulty, they refused to let me have my money back, but in turn offered me a credit note.

I wrote back to him to say this was unacceptable to me, because I could not afford to have nearly £60 of my money tied up in this way. This was more than four weeks ago and as yet I have heard nothing further from them.

Oliver Stockley, Kingsway, Shipston-on-stour, Warwickshire

If sounds as if you are definitely entitled to your money back. Unfortunately being legally in the right does not always help in these matters as quite a few shops will try to pull the wool over your eyes.

I'll give 'em a bell and try and get it sorted. If the threat of being no longer on Ezra's Christmas list doesn't stun them into submission then you need help. Pop along to your local Citizens 'Advice Bureau. They will be able to provide you with legal aid which may not cost you a penny.

Duncan dares too much

As the developer of the game Lost Patrol for Ocean, I read the review of our game in the current issue of Amiga Computing with great interest.

That Duncan Evans thought the game poor is of no consequence. Of course tastes are subjective and his was the first bad review out of 12 European magazines.

But we do object most strongly to his final assertion that any reviewer who said the game was a good one was a liar, lying to maintain Ocean's advertising revenue.

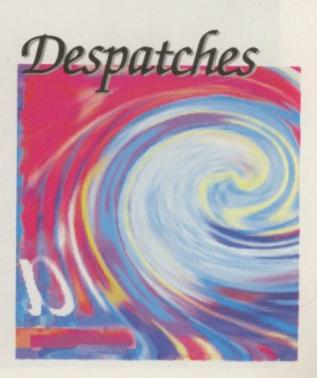
We find this statement unjust, irresponsable and totally unfounded, and now feel that a printed retraction is in order with the reviewer concerned disciplined.

Is Mr. Evans also calling his fellow journalists on your Amiga Action magazine liars for their good review of the game? Perhaps this young man has an axe to grind with Ocean themselves? If this is the case then even his reviews can no longer be held as objective.

I. G. Harling, Envision, Bristol

Well, yes. I'd have to agree with you there. Duncan can get a bit carried away sometimes (though not far enough for most people's liking). I have spoken to Duncan since and he regrets having cast aspirtions as to the integrity of the journalistic fraternity.

While it is not our intention here at Amiga Computing to muzzle our reviewers when it comes to giving a game a poor review we regret that Duncan went too far in this case.

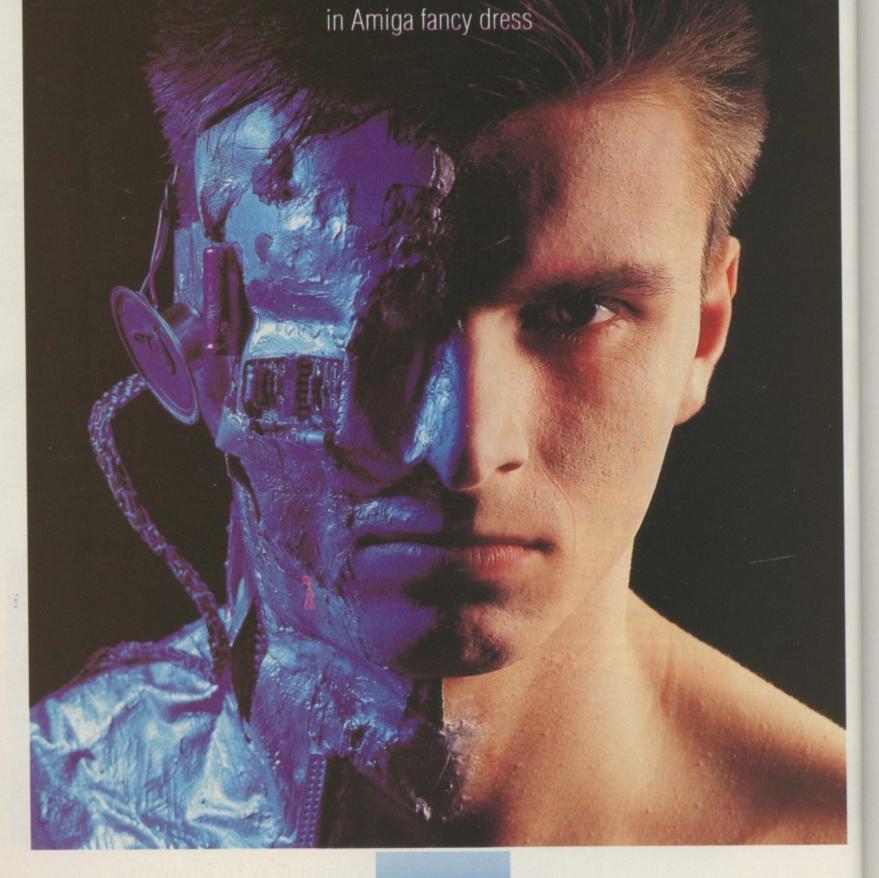


Emulate

One computer not good enough for you?

Want more?

Jason Holborn and John Kennedy look at the current state-of-the-art



some people are never satisfied. One computer per family just isn't enough in these decadent times: Not only do they want an Amiga, they want a PC, an Apple and an Atari.

Emulation provides a solution to the problem of becoming buried under a mountain of different makes of hardware. Thanks to a combination of software and hardware, your Amiga can play "Let's pretend" and be any computer you want it to be.

In theory at least, emulating another computer is easy. All you need is the correct processor (a 68000 for the Mac and ST: already present in the Amiga, a 8080-compatible for PCs) and a copy of the operating system.

Then you just tie up a few loose ends, such as input from the keyboard and output to the screen, and any legally written programs will work fine.

The main problem is getting hold of the operating system of the computer to be copied. Since it is usually held in rom, it's normally only a matter of either using the roms themselves, or making a disk image of them and using that.

There is a small snag here: It may be illegal. Whoever wrote the operating system holds the copyright, and they may go so far as to only license you to use it. This means there are only certain circumstances in which you can use it, and copying it on to a floppy for a friend certainly won't be one of them.

This sort of legal battle has long been assigned to the filing cabinets for the PC's operating system. A solution was reached by getting a third party to re-write the OS and using it. To the user both systems are the same and his IBM clone will run the vast majority of IBM PC based software.

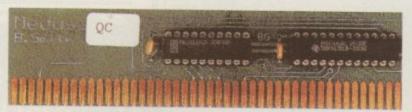
It is hard to imagine a third party company writing a new version of the Mac or Atari ST operating systems.

Kick STart

Being the Amiga's closest cousin, the Atari ST should be the easiest computer to emulate. After all, they both share the same 68000 processor. In fact it would be fair to say that if you took away the Amiga's custom chips, the hardware architecture of the two machines is almost identical, so it shouldn't be too hard to get Atari software running on an Amiga

When the Amiga first arrived, there was talk of an ST emulator for

Feature



The hardware component of Medusa

Just £5, but that (not surprisingly) never arrived. However, a German company called Macro Systems have recently come up with the goods in the shape of their Medusa ST emulator.

The emulator package consists of two disks (one of which is in Atari format) and a tiny PCB containing little more than a couple of chips and a capacitor. The card, which slots internally inside the A2000, is the smallest emulator card I've ever seen – if you're not careful, it would be all too easy to lose it under a pile of disks: It really is seriously small.

Then again, the card itself isn't that important for Medusa claim that the hard work of emulating the Atari is actually handled by the Amiga itself – the card is used for nothing more than I/O.

The card won't multi-task, and this is really a great shame as it would have been a perfect way of winding up all those ST-owning friends you may have. Seriously though, Macro Systems claim that the next release (version 2) will be fully multi-tasking, so it will be possible to run ST and Amiga packages concurrently.

In use, the Medusa card isn't a simple plug in and go affair. Before you even get the slightest glimpse on anything even remotely ST-like, you'll have to swallow your pride and get your hands on a real ST.

On the Atari format disk that came with the emulator is a rather suspect little utility called GETTOS.PRG. This program, which must be run on a real Atari, dumps the Atari rom to disk as a 200k binary file and copies it on to the Medusa boot disk.

In theory, this should allow Medusa to emulate anything from the very first ST machines (which came with the operating system TOS on disk) to Stacys and STEs

boasting Rainbow TOS version 1.6. Surprisingly, although you could run Rainbow TOS, you can't get at any of the extra facilities offered by the STE. Why this should be I don't know, as the Amiga hardware could more than adequately handle the task

Now all you have to do is double click on the Medusa icon and things start to happen. From now on, you've got a machine that is, to all intents and purposes, an Atari ST. It can read and write disks in Atari format and, for hard disk users, you can even set up a partition on your drive for Atari soft-

Unlike a real Atari, it's actually possible to run all three Atari screen modes from a standard Amiga monitor (Atari owners need two monitors!). Both medium and low resolution are virtually identical to a real ST, but the ST high resolution mono mode does tend to suffer from the usual eye-straining qualities associated with interlaced displays.

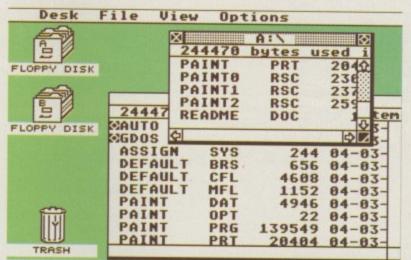
It would have been nice if the emulator supported the non-interlaced screen modes offered by the new enhanced chip set. As it is, you're either going to have to buy yourself a flicker fixer, or cross your fingers and hope that Macro Systems fix this in version 2.

Due to restrictions in the ST's memory management, it is only possible for a real ST to access a total of 4Mb of ram. Atari botched things by only allowing a 22 bit address bus even though the 68000 can actually handle up to 16Mb using a 24 bit bus. This is one area where the emulator actually improves upon the real thing: Medusa can take full advantage of the Amiga's entire memory map. If you've got the memory, you could have a 9Mb ST!

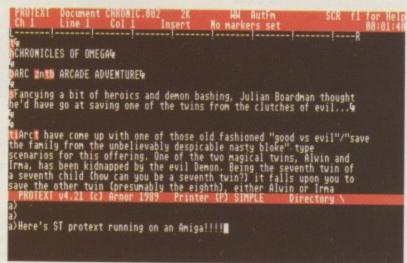
According to Medusa, the emulator runs at about 90-95 percent of the speed of a real Atari, which isn't bad (and is in fact a little impossible) when you consider that the Amiga normally runs 10 per cent slower than an Atari.

Surprisingly, Medusa seems to run most application software without a hitch. Even ST MIDI software (which is written to use the Atari's built-in MIDI ports) works fine. The emulation software re-directs all MIDI activity to serial-based Amiga MIDI interfaces, therefore allowing you to run software such as Cubase without a hitch.

If you need to run Atari applications software, then Medusa certainly delivers the goods. It happily



Once all is working fine, you should be greeted by the rather garish ST desktop.



The standard of emulation is very high indeed: This is the ST version of Protext.

runs programs such as Calamus, Pro-24, Harlekin, GFA BASIC and even the ST version of Protext.

However, that's not to say that the Medusa system will run all Atari software: If you're hoping to run any of your friends ST games under the emulator, then forget it. Due to disk protection schemes and blatant "metal bashing", the vast majority of Atari games software almost certainly won't work. This isn't a handicap: Any games which come out for the ST and not the Amiga aren't worth playing!

There is only one problem with Macro's emulator – and that's the price. Coming in at £180, the emulator certainly isn't cheap. For that kind of money, you could quite easily pick up a real ST. However, if you can't afford the desk space taken up by an additional machine, then the Medusa emulator provides a simple (and space saving) solution.

Mac attack

I don't know what it is, but there's something about the Macintosh that makes it highly desirable. Take your average computer buff. Although he may not readily admit it, there's a Mac lover in there somewhere. He may wibble on endlessly about the merits of his chosen computer, but it's a sure bet that he would much rather be sat in front of a Mac.

So why haven't we all got Macs sitting on our desktops next to our Amigas? Well unfortunately, Apple has the habit of pricing products out of the reach of the people that most want them. An averagely well endowed Mac could set you back almost £3000 – even then, you have to fork out extra for things like high resolution colour cards. This then, is why A-Max is such a good bet.

ReadySoft's A-Max Mac emulator has been around for a fair old time now. Unfortunately, the original release was rather limited – if you wanted to play Mac Tetris (which is about all I used it for) then it was fine. But for serious DTP work, it left a lot to be desired.

Everything seemed fine with A-Max, but for one small detail – hard disk support. If you've ever used a floppy disk-based Mac then you'll already know how frustrating it can be. The Amiga suffers enough with the dreaded disk swapping syndrome, but with the Mac it's an accepted fact of life. Mac users complained of aching wrists after prolonged periods of use, hence the term Macintosh Elbow.

Feature



Even the ST version of DPaint ran without problems!

Thankfully, ReadySoft have cured this problem with the release of A-Max II. If you're the lucky owner of a hard disk, you can now use it to store Mac programs and data. Is A-Max now perfect?

If you've bought the basic A-Max II (not the Plus version) then the first thing you'll notice is that the hardware itself hasn't changed from the original A-Max. That same long and rather obtrusive grey box is still as obtrusive as ever. It protrudes out of the back of the machine a good 6 inches or so, as if trying to compete with Commodore's TV modulator to see which can get in the way the most.

If you haven't had chance to play with A-Max, then it's worth saying a few words about the cartridge itself. Contained within that beautifully moulded case (which, incidentally, has the signatures of the designers etched on the inside)

are two chip holders. These holders seat the two Mac roms that must be installed for A-Max to be able to do its stuff.

Mac roms come in two flavours – 64k and 128k. Roms from the Mac II will not work – these are high capacity 256k Roms. If you can, go for 128k Roms as this will allow your A-Max II system to run a higher percentage of Mac software. After initial problems obtaining these Roms, El can now supply them for an additional fee. Actually installing the roms is a simple enough task which is completed in a matter of minutes.

There's also a number of extra connectors. The first is a pass-through connector which will allow you to use your external drives even when A-Max is in use. If your drive has a passthrough connector, it's even possible to plug the A-Max cartridge into that, therefore

saving you the hassle of having to fight through all the spaghetti growing out of the back of your machine every time you wish to unplug A-Max.

For those of you who can afford such a luxury, it's also possible to plug a Macintosh disk drive into your Amiga via the A-Max cartridge. Although these are generally rather more expensive than their Amiga counterparts, such a drive is a worthwhile investment if you intend using A-Max seriously. A good drive to go for is the Amiga-A-Tosh drive which is available from MAST on 077082 212.

It's just not fair. If, like me, you like to dive in and start playing as soon as you get a new piece of kit, then you're in for a big disappointment; Before A-Max II can do its stuff, there's a fair bit of setting up to be carried out.

The first thing to do is to find a Mac and copy the Mac System and Finder files onto a special minitransfer disk. This A-Max II specific disk can be read by both the Mac and by A-Max. Unfortunately, it's rather limited in size – a mere 272kl

If you're using a Mac that has a large number of fonts and desk accessories installed, you'll probably have to remove a large number of them before both Finder and System will fit onto the minitransfer disk. Don't worry – as soon as you've got A-Max up and running, you can re-install your favourite fonts and D/As.

To get anything even remotely Mac-like to appear, you need only the System and Finder files mentioned previously. These two files contain the Mac operating system and desktop environment. As soon as these are safely copied, your MacAmiga should spring to life. The next step is to format a disk from A-Max and copy the two Mac OS files on to that so that you can use the transfer disk again.

If you've got a Mac external drive, then bringing Mac software across into A-Max II is a doddle – just plug the drive in, boot up A-Max and copy the programs straight off the Mac disks onto A-Max disks.

On a standard Amiga, A-Max can operate in both medium and high resolution screen modes (although the latter suffers terribly from the problems of interlacing). A-Max II can also take advantage of both the Enhanced Chip Set and big screen monitors such as the Moniterm and A2024 (what ever happened to that?). However, for those of us with nor-

The A-Max Plus Version

A-Max II is available in two different configuration, the second of which is yet to come. A-Max II Plus is a totally new product designed specifically for the professional user. As well as the features sported by the current release, A-Max Plus offers a number of additional extras:

Internal Fitting

A-Max II Plus is a plug-in card which connects internally to the Amiga 1500 upwards. At last it's possible to run Mac, PC and Amiga software from a single, self-contained system box.

Mac Format Disks

With Plus, it's now possible to directly read and write to Macintosh format disks from standard Amiga drives.

MIDI Compatibility

Run such well respected Mac music software titles as Cubase, Performer and Master Tracks Pro on your Amiga (with standard MIDI Interface connected to the serial port).

Mac Serial Ports

Talking of serial ports, Plus provides two Mac compatible serial ports, therefore allowing it to take advantage of Mac serial devices which conform to RS422 standards.

Appletalk Compatibility

Plus is fully compatible with Mac Appletalk networks and peripherals. It is now possible to directly connect the Amiga to devices such as Mac laser printers. phetti your

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mal Amigas, you'll probably prefer to run A-Max in medium resolution (do your eyes a favour!).

A-Max now supports Mac digitised sounds. These range from the simple SysBeep tone to complex Mac samples. Most samples play OK, but problems do arise that can often result in the dreaded System Error requestor (the Mac version of the Amiga GURU) popping up onscreen.

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Mac digitised sound can be a lot of fun. Using a control panel utility called Sound Master, it's actually possible to assign samples to different aspects of Mac operation. For example, your Mac can be set up to play a sample when a disk is ejected, another when a disk is inserted, another when you make a mistake etc.

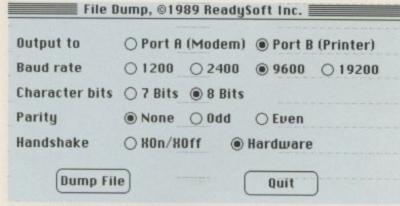
Probably the most major new feature offered by A-Max II is the ability to use hard drives during Mac emulation. A-Max II allows you to access hard drives in two different ways. If you're the owner of a hard drive that offers a SCSI connector (such as the A590), you can access stand alone Mac-formatted drives by connecting them directly to your Amiga via SCSI (the Small Computer Systems Interface: a standard for data and control lines which actually works). This has the advantage of allowing you to access data on a drive set up for use on the Mac.

SCSI support also extends to allow Mac SCSI peripherals to be used directly from within A-Max. These include such wondrous devices as laser printers, scanners, optical drives and so on.

Secondly, A-Max II will let you set up a Macintosh format partition on your Amiga drive. A-Max uses custom controller card drivers that are written specifically for particular makes of controller. Although not all cards are supported in the current release, ReadySoft claim that all Amiga hard drive manufacturers have been contacted and asked to produce drivers for their drives. The current release supports a number of controller cards including the Commodore 2090A. 2091, A590 and even the GVP range of controllers.

You can access up to eight A-Max compatible partitions spread across several hard drives, as long as all the drives are connected to the same controller. Although the Amiga can use any number of controller cards, A-Max II is somewhat less flexible. It's also worth mentioning that if you do intend creating an A-Max partition on

Feature



One of the utilities supplied

your hard drive, this will require you to reformat the entire drive.

Using a hard drive with a Mac is more than just a luxury - it can often be a necessity. For example, the latest release of the Mac's premier DTP system, Quark XPress, barely fits on a high density disk, let alone a standard 800k Mac disk. Amounting to almost 1.4 Mb of data, It's almost impossible to use XPress without a hard disk. Even users of real Macs can't really use XPress unless they're lucky enough to own a Mac equipped with a high density drive (Mac SE/30 upwards). Even then, XPress has a habit of producing files that often amount to megabytes in size...

Lastly we come to the all-important subject of software compati-

bility. Thankfully, A-Max certainly doesn't seem to be let down in this department. Just about any Mac software that uses the Mac operating system should work fine under A-Max - I was able to run a large number of different programs including such well known titles as Quark XPress, PageMaker 4, MacWrite, MacPaint and even a number of Mac games such as Crystal Quest, MacPlayMate (ahem) and Tetris (yippie!). Just don't expect more hardware dependant programs (such as MIDI sequencers) to run properly.

On a standard Amiga, emulation runs at about the same speed (if not slightly quicker) as a Mac Plus computer. If you're lucky enough to have a processor accelerator, A-Max will even take full advantage of this, allowing emulation to be speeded up by as much five times that of a real Mac.

With the release of A-Max version 2, ReadySoft have answered all the criticisms levelled at the original. Now that it fully supports Amiga hard drives, A-Max has risen from the lowly ranks of being nothing more than a curiosity to become a truly useful tool. With A-Max connected to your Amiga, it's finally possible to run quality Mac software without having to pay the kind of extortionate prices that Macs command.

PCs in our time

On the face of it, it should be impossible. Even Commodore were sceptical. OK, so emulating a PC in software is no problem – after all, the much-maligned package "Transformer" has been doing it (albeit badly) for years. Equally, emulating a PC in hardware has also been done, with the likes of the Bridgeboard systems for the A2000.

But emulating a PC using a A500 ram expansion and some extra chips? Impossible. Yet somehow it works. By slotting a card the size of a ram expansion into your Amiga 500, it suddenly becomes a PC.

To be honest, I didn't believe it possible. Even though I'd seen it demonstrated at the 16 Bit Show, I would only really believe it if I could do it myself.

So I did it. And it worked. My multitasking, 68000 based, WIMP environment Amiga had been "upgraded" to be a PC compatible. Amazing. Installation took less than an hour. Although packaging for the latest gizmo usually says "fitted in moments", to be honest I usually spend over an hour plugging-in, testing and getting software organised.

This time all I had to do was duplicate some disks, plug in the card and re-boot. My Amiga was a PC.

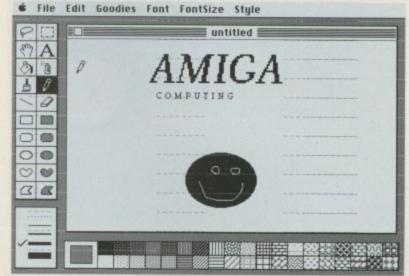
As I normally make it a rule not to use a PC, I didn't have much in the way of suitable software. So I walked all the way across the office and asked the editor of the magazine, PC Today.

"Here", he shouted, "try this."

And he gave me some diagnostic software.

"I'll be very surprised if it works!" he yelled (this is not unusual). It worked.

All the tests with the exception of the DMA tests (which were irrelevant) were passed with flying



MacPaint runs without difficulty

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A transfer utility somewhat similar to Mac2Dos

Feature

colours. Even keyboard mapping, which had me worried, was no problem. Just as a matter of interest, it turns out that using function keys greater than F10 actually works, so don't fear commands that say "Press F12 to continue".

The software also provided a useful benchmarking system which I promptly tried on the other office PCs. I'll tell you what they came out like later. Don't want to spoil the surprise.

Once the board is fitted, you have a choice of two possible computers under your creamy beige plastic keyboard.

The first (and more technically advanced) is your Amiga, although now it has one or two extras. For starters, you have an extra half meg of memory just like an A501 ram expansion. You also have a battery-backed real time clock, just like the official A501 memory expansion and the unofficial ones which cost a tenner extra.

As an extra bonus, you even get an additional 512k ram disk, although I have to admit I had problems getting this to work. KCS say that if you have an A590 or any other hard drive which uses DMA (Direct Memory Access – a way of speeding up drives by allowing them to read/write directly to/from memory independently of the main CPU) then don't bother trying, as version 1 of the system software doesn't like it.

As far as the Amiga side of things go, that's about it. Once the ram disk problems are sorted out, you'll have everything you could want from something plugged into your trapdoor, and a little bit extra besides.

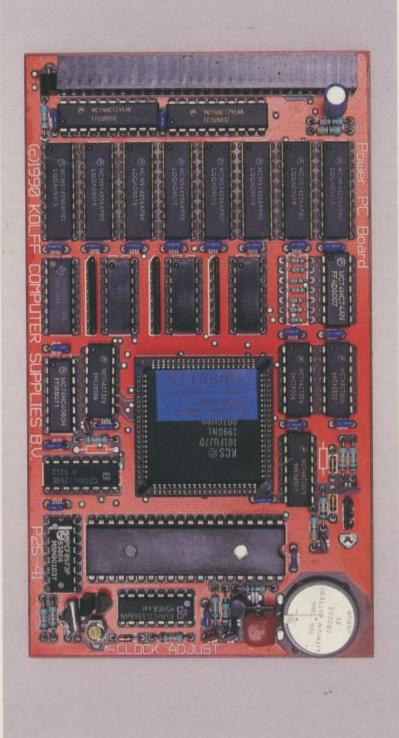
If you want to defect and use your Amiga as a PC, you have to perform the following steps.

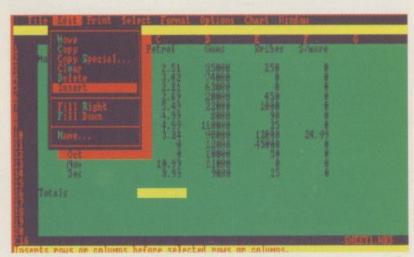
Step 1: Remove any hard disks you may have attached and throw them away. You won't need them for a bit.

Step 2: Boot from floppy disk "A"

Step 3: Load MSDOS v4 from floppy disk "B"

And that's it. If this seems a bit complicated for you, there is a complete, totally user-friendly front end program to help you configure your new PC to get the most from it in the way of graphics modes, serial ports, external disk drives and mouse interfaces. If a particular PC package you are





Microsoft Works does – works that is

using has some strange screen colours, you can hit the "help" key at any time and redesign them.

It's been some time since I used PC software, and things have certainly changed. You would be amazed at the lengths PC programmers go have to go to to ensure "user friendliness".

Most modern programs use pull down menus, hot keys and drop shadow windows. It all looks very out of place on something which to me has always said "boring".

There would be little point in me telling you how high the standard of emulation is. If I were to say it will work on all PC programs, someone somewhere would buy it to run a particular program and it would fall down.

All I will say is that I tested a fair number of programs, including games, word processors, databases and spreadsheets. They all worked fine. The only drawback was the need to use floppy disks all the time. KCS say that if you have a particular program in mind, check with them first to see if it runs. Seems fair to me.

The speed of the KCS Power board is not particularly stunning. In fact, according to the well-respected benchmarking programs I ran, it even runs slower than an Amstrad PPC. It was completely blown away by a 80286 based PC.

Why buy an ST emulator?

I know what you're asking yourselves. What's the point in emulating an Atari anyway? Surely there's not a great deal that an Atari could do that the Amiga couldn't do better? After all, isn't that the reason why you bought an Amiga in the first place? Well, to a greater extent, you'd be right; the Amiga does have a habit of doing things just that bit better than all the rest.

There are exceptions to this – and it's MIDI software. Although the Amiga is finally starting to get its fair share of decent MIDI software (Pro-24, Master Tracks Pro and MusicX are fine examples), the standard of ST MIDI software stands miles above the rest – even Mac and PC MIDI software can't touch it

Pro-24 may have just arrived on the Amiga, but it's positively prehistoric on the Atari. Steinberg have since upgraded it to a considerably better program called Cubase, which is already in its second revision. Then there's the C-Lab range of software, Virtuosa and Realtime. e screen help" key them.

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Why buy a Mac emulator?

The obvious reason is to get a Mac on the cheap.

Apple computers are, shall we say, a bit on the costly side. Even buying an Amiga and emulator from scratch will save you money. Of course, if you already own an Amiga you'll have to splash out even less.

The Mac is the favourite machine when it comes to Desktop Publishing. Rightly or wrongly, talk to someone about DTP and you'll always end up talking about Macintosh computers.

Although the Amiga now supports wonderful packages like Professional Page 2 which in many aspects can out-perform the Mac standards, there is still a lot to be said for emulating one.

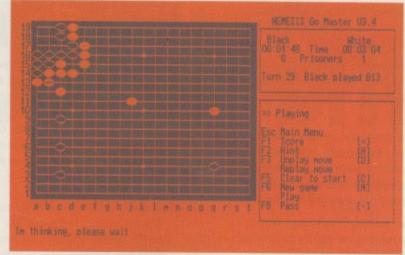
For example, in a situation where Macs have already been installed, it would be financial madness to chuck them all away and start again with Amigas. However, when it comes to expanding the system, an A2000 with A-max 2 Plus could be plugged into the network like any other Mac with a considerable saving. Plus you have all the benefits of the graphically and sonically superior machine, as standard.

Why buy a PC emulator?

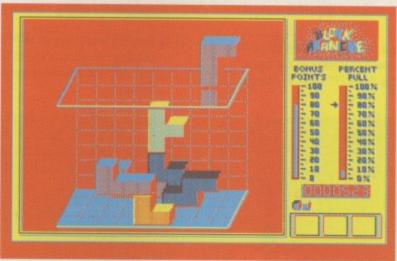
The PC has never been renown for excelling in a specialised field. Graphics, sound, DTP and MIDI are all better left to other machines.

Nevertheless, the PC has been around for a long time: Almost since the very beginning it appears. As a result, it has earned itself a remarkable collection of

Feature



The game of GO is easily emulated



This is taking it a bit far perhaps. Future Classics will run on this emulator



A useful help utility is included



The board will boot from PC floppies

software. Forget up-to-the-minute animation packages, we're talking productivity here.

Word processors, spreadsheets, databases: The PC has a greater choice in these fields than any other machine in existence.

What's more, most of the PC software around is free: It's public domain. There is still more PC PD than Amiga PD, and you know how much Amiga PD there is out there!

Another reason to invest in a PC compatible is that old cliched situation the "PC at work, home computer at home". If you really need to take work home from the office PC and continue at it home on the family Amiga, here's the solution.

The final scenario is one which appears in our mailbag several times a week. A lot of colleges and universities use PCs as course machines. The poor students are forced to learn programming languages and how to use spreadsheets on the out-of-date campus equipment.

Most students find that they need to use the machines out of normal daytime hours, but also find that due to lack of funds their numbers are limited and competition for access is fierce. Adapting the ever present Amiga could be the ideal solution.

Mac, ST emulators: Jason Holborn PC emulator: John Kennedy

Tech Spec

Medusa ST Emulator

Supplier:

Medusa Macro Systems 010 49 2330 801132 Emulates:

Atari ST - several TOS versions

Price:

£180

Software supplied:

Utility and "rom grabbing" software

Amiga required

A2000 up. A500,A1000 versions "coming soon" Floppy disk support:

Yes, using standard Amiga drive

Hard disk support:

Yes

Multitasking:

No - "coming soon"

Compatibility:

Good

A-max 2

Supplier:

Readysoft/Entertainment International

Emulates:

Apple Mackintosh

Price:

around £250 (including roms)

Software supplied:

Set-up utilities

Amiga required:

A500. A2000 Plus version "coming soon"

Floppy disk support:

Needs Mac drive.

Plus version will use standard Amiga drive

Hard disk support:

Yes

Multitasking:

No

Compatibility:

Good

KCS Power Board for A500

Supplier

BitCon Devices, 091 4901919

Emulates:

PC (CGA and Hecules graphics modes)

Price

£320

Software supplied:

MSDOS v4, Shell, Utilities

Floppy disk support:

Using Amiga drive and supports 5.25 inch systems as well

Hard disk support

No - "coming soon"

Multitasking:

No

Compatibility:

Good

Special:

Acts as memory expansion with clock when running AmigaDOS. Extra RAM disk possible.

Presenting Protect version laws

Five years to the month after Protext version 1 was launched Arnor are pleased to present version 5, an enormous leap forward in both ease of use and performance.

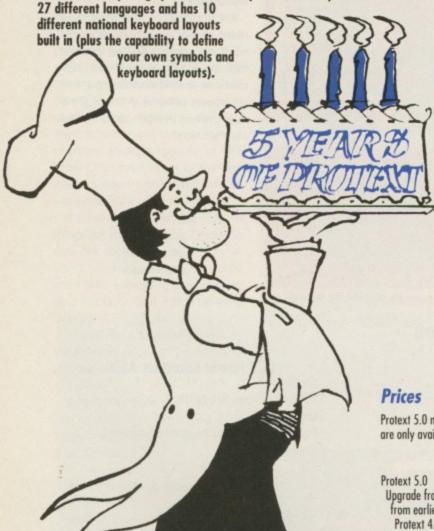
Protext 5.0 introduces a completely integrated system of pull down menus and dialogue boxes. The menus are among the many operations that may now be carried out with either the mouse or the keyboard. Protext really does give you the best of both worlds.

Protext 5.0 handles printer fonts flexibly and accurately. You can make full use of any number of proportional printer fonts, mix them freely within any line, centre them in headers, use automatically formatted footnotes. And Protext correctly formats your text as you type it, no matter how many font changes you use, showing you line and page breaks exactly as they will be printed.

Protext 5.0 is still the fastest word processor around. Even though we have made all these major improvements we have taken great care to ensure that text editing is as fast as ever. The menus work smoothly and quickly even with high resolution displays. But of course, you can use Protext's efficient set of commands and keys just as before and 5.0 remains compatible with all earlier versions from 1.0 onwards.

Protext 5.0 is a worthy successor to version 4, which was described as "the best word processor at any price", "the best text processor on the Amiga" and "the most powerful word processor on the Atari ST" (AUI, ST/Amiga Format, ST User).

Protext 5.0 heralds a new era of multi-lingual European software, in time for 1992 and the opening up of Eastern Europe. Protext may be used in at least



The Features

New fast & easy to use pull down menu system with dialogue boxes and alerts; file selector; mouse dragging to set blocks. Menus complement existing commands and keyboard shortcuts, do not replace them. Menus may be used with mouse or keyboard. Amiga version follows Intuition guidelines.



- Enhanced printing capabilities supports multiple proportional fonts; mixing of different font sizes on the same line; proportional formatting whilst editing; side margin, headers and footers independent of main text font. Tabs, decimal tabs and centre tabs. Extensive range of printer drivers supplied.
- Multiple file editing up to 36 files may be open; split screen editing.
- Graphics mode support on PC allows use in virtually any text or graphics mode including 132 column or 75 line VGA modes; user defined characters and on-screen bold, italics and underlining now on all versions; use of 13 different accents on any character.
- Language support includes Albanian, Basque, Czech, Danish, Dutch, English, Esperanto, Estonian, Flemish, Finnish, French, German, Hungarian, Irish, Italian, Latin, Lithuanian, Norwegian, Polish, Portuguese, Rumanian, Serbocroatian, Slovak, Spanish, Slovene, Swedish, Welsh. (Note: some printers do not support all languages).
- Index and contents generation. Indexer takes marked words or phrases; contents entries automatically taken from titles wrapped in control codes; many options for style of contents output.
- Spelling checker features completely new 110,000+ word Collins dictionary with very fast phonetic lookup. Anagrams and find word pattern. Foreign language dictionaries (German, Swedish available now, others to follow).
- Many other enhancements including multi-line footnotes and endnotes; automatic timed save; add column or row of figures; indent tabs; find word at cursor; 40 column mode support; sentence operations; inter- paragraph space; much improved expression evaluator; self incrementing variables; Roman numerals; newspaper-style column printing; file sorting utility with special options for names and addresses; revised manual plus new tutorial guide.
- And don't forget Protext still includes background printing; box manipulation; macro recording; exec files; headers and footers; find and replace; mail merging; undelete; file conversion utility; configuration program; auto reformatting; on screen help; time and date; typewriter mode; line drawing; disc utilities.

Protext 5.0 may be purchased from any good computer shop or directly from Arnor. Upgrades from earlier versions are only available from Arnor and the original discs should be returned with your order.

	PC	Amiga	ST/TT	Archimedes
Protext 5.0	£149.95	£149.95	£149.95	£149.95
Upgrade from v4.2	093	093	093	N/A
from earlier versions	£75	£75	£75	N/A
Protext 4.2	£99.95	£99.95	£99.95	N/A
Prodata 1.1	279.95	£79.95	£79.95	due 1991 Q1

Notes

Protext 5.0 requires at least 640K of memory on all machines Protext 4.2 requires at least 512K of memory on all machines Prodata requires 1MB of memory on the Amiga

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Hi Density Driving

hen the Amiga was launched way back in 1985, one of its revolutionary features was its double sided 880k 3.5inch disk drive. At that time, everyone in the IBM world was still using 5.25in disks, and the Apple Mac and Atari ST had single sided 3.5in drives as standard.

Even when the ST and Mac got external double sided disk drives, they could only manage 720k and 800k on a disk respectively.

However, the Amiga's has since been overtaken by newer machines from IBM and Apple. IBM released their PS/2 range using hidensity 1.44Mb disk drives, and Apple soon followed with high density drives in their top-of-therange Mac II's. Even the lowly Atari ST has now got external high density drives.

Now, Applied Engineering from the States have released a drive that brings the Amiga back into the lead.

Their AEHD external disk drive can format disks to 1.52Mb, beating both IBM and Apple.

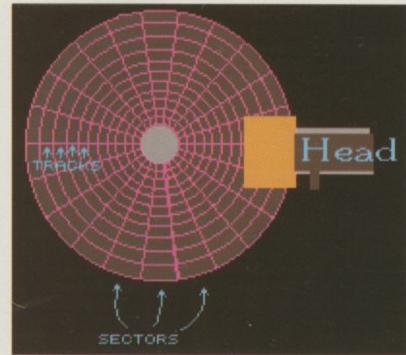
The drive comes in a very nicely produced external case, and the first thing that strikes you is that it looks like an external Macintosh drive.

This is no surprise, as Applied Engineering make external drives for the Macintosh as well.

The AEHD drive can also be used as a straight-forward 880k external drive, and has some quite neat features. It uses the same Sony disk mechanism that is found in the Apple Macs. This has automatic disk ejection.

Auto Eject

On the Mac, if you drag a disk into the wastebasket it will eject the disk for you. The Amiga's operating system doesn't (yet) support this (come on CBM, roll on Workbench 3.0), but there is a small button on the front of the disk drive that will eject a disk. This may seem to Why do we still have to put up with 880k of disk space in the 90's?
We don't, as Jolyon Ralph shows us with some hi-tech equipment fresh in from the U.S.



The block arrangement of a standard floppy

defeat the whole object of automatic disk ejection, but it allows the drive to only eject disks when it is safe (when the disk drive is not reading or writing).

One nice feature of this is if you do a disk to disk copy and press the eject button, it will wait until the disk has copied and then eject the disk.

Not really that useful, but it's a great way to show off and it's a much better way of attracting your attention than the customary beep or the rather annoying screen-flash.

Another nice touch is the dual colour LED. This is yellow when the drive is reading, and red when the drive is writing – an easy way to tell if something nasty is trying to write to your disks without warning you.

Double Device

When plugged in, the drive behaves just as if it was a fancy 880k drive. To get it to use high density disks there is a special driver file that patches the Amiga's Trackdisk.device. It makes the drive behave as if it were two drives, DF1: for 880k disks and DF5: for 1.52Mb disks.

Only four lines need to be added to your startup sequence file for the changes to be made permanent.

Once the changes have been made and the machine re-booted, any high density disk will come up as df5: and a low density disk will be df2:

The drive detects whether a disk is high density or standard double density by checking for the special hole on the left side of high density disks. While it is possible to drill holes in the normal 1Mb disks, the coatings on the disks are different, and disks converted this way are not reliable.

The drive works fine with all the hard disk backup programs I tried it with, but I could not persuade either dos-2-dos, Crossdos or the public domain MessyDOS to read 1.44Mb IBM disks on it however much I fiddled with mountlists and other such things.

This is not a fault of the drive, as the software was written long before it became available. It should also be possible to read Apple disks on this drive, with the right software.

The Meg War

Now the Amiga is ahead again, however, it will not hold the lead in floppy storage for long. The recently-announced PS/2 Model 90 from IBM will have a 2.88Mb floppy drive.

Citizen have announced a 20Mb floppy drive with SCSI interface will be available soon. Up to 7 of these could be linked to an A590-equiped Amiga.

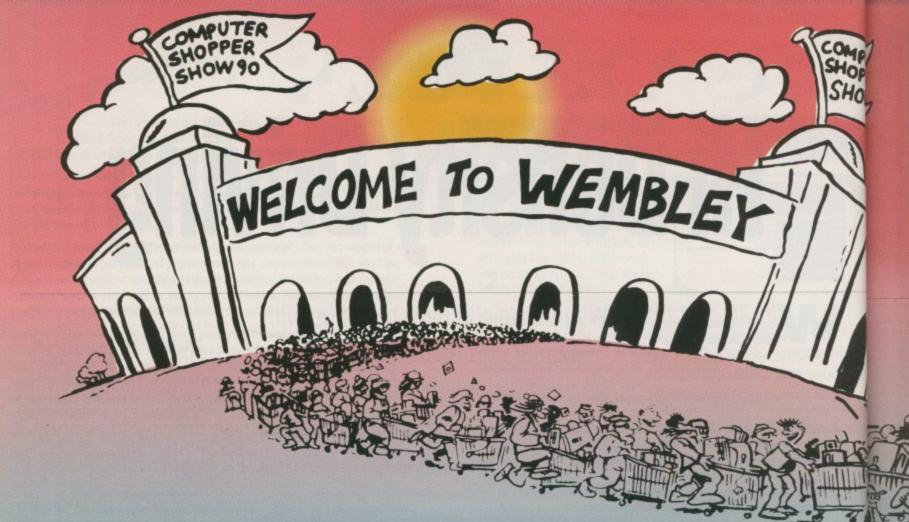
With the current exchange rate, the drive works out quite cheap. It's excellent for showing off, and the high density disks are a vast improvement for hard disk backups

A great piece of hardware, excellently made, a good price, and works well.

When it can read high density IBM disks and Apple disks it will be perfect.

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PIRACY IS THEFT WAY back in the mists of time, so far ago that even the so called good old days of home computing were but a distant memory, and so long ago that even this hallowed organ was but a twinkling in the eye of The powers that be... Er where was I?

Oh yes, it was 1985 in fact, and it was just about the last year it was worth owning a Commodore 64 because Andrew Braybrook's Graffgold released Paradroid, and followed it up the next year with the wonderful Uridium.

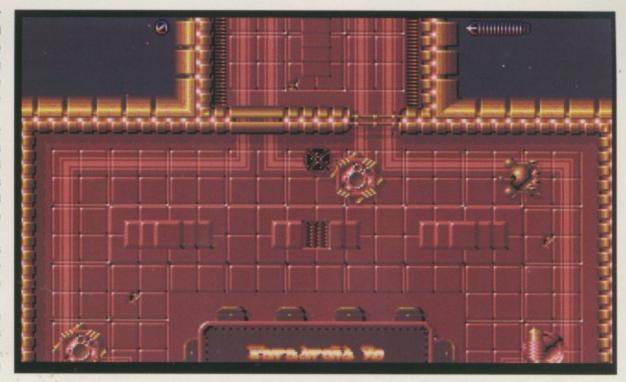
Surprisingly our Andy has rehashed his original game to give us Paradroid 90. What next, Uridium 91?

The reason Paradroid was a resounding success was that it was a jolly good 8-bit game. However, expectations, game design and the standard of software has advanced since then (though it might not seem like it at times). So does the old dog still have a few tricks left or is Paradroid 90 only a series of toothless woofs?

To find out you first have to digest the plot. Easy enough. Out there in space is a place called Basmyth. The neighbouring Trimorg Empire wants to annex it Iraqi style. Our forces send out a fleet of freighters to counter the threat. From out of nowhere comes a Flash Gordon Death Ray which turns all the droids onboard into metallic communists.

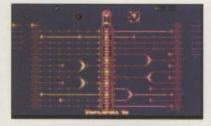
They round up all the capitalist, land owning, fascist pig, police state, running dog lackies, otherwise known as the human crew, and put them up against a wall. You are also a droid, which makes the whole exercise one of droidicide

To facilitate the droidicide you are armed with a feeble laser, a small energy supply, and poor armour. You only get one life, and the droids on the ships are bigger, faster and meaner than a rattlesnake in your codpiece.



RADRO

Publisher: Hewson Price: £24.99



anaemic ship araphics and droids. The screen scrolls up and down if you progress in those directions, which is in fact, fewer directions than on the Commodore 64.

You can access desk consoles and call up data on the function of the deck you are on (they are linked by lifts), the number and type of droid inhabiting it, and Viewpoint is top down, with fairly correspondingly, hints on the best

way to proceed.

Now you can run around and just blast every card carrying can you see, which is fine. You might just make it off this deck in one piece. But you won't get any further I assure you.

The crux of the game is in fact a sub-game. You have the ability to lock onto another droid and play out a transference game for possession of its metallic hide. This involves shooting pulses of energy at a central bar, and hoping that when the timer runs out you have more receptors in your colour than the opponent. The trouble is that you only get a limited number of shots, and the bigger the opposition, the more shots they have.

There are numerous fiddly bits which gives you unchangeable receptors, two shots for the price of one etc., and you can swop sides before you start, so a small dollop of strategy and tactics comes into play.

Indeed, unless you tackle some of the droids on the lower decks in a certain order, transferring as you go, then you won't be able to finish the game. It'll take you a long time to get that far though.

Paradroid 90 is tough work make

no mistake. It's also incredibly irritating to lose your very first transference game and thus get blown to bits and have to go back through the title page and credits.

Paradroid 90 is a fair game, enjoyable at times, frustrating at others, but it does show its age. Roll on Uridium 91 is what I say

Graphics

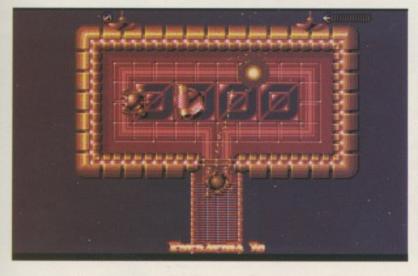
Graphically Paradroid 90 is unimpressive, but this is partly due to the game design. If it had been rendered in 3-D with exactly the same objectives it would have looked far better, but then it might not have played the same.

Sound

Suitably weird effects which have undergone much the same sort of update as the graphics.

Gameplay

Slightly tougher than the original and unbearably frustrating at times. Considering that this is an update for 16-bit owners I don't really think dogged adherence to an 8-bit design from five years ago was that important.



I DON'T wear these sunglasses just to look cool, ya' know. I don't wear them just to make me look like Tom Cruz – no way man. Although I have to admit there is a likeness. Especially when I have my crash helmet on and no one can see my face. I mean, if I was a bit shorter and a bit more handsome and spoke with an American accent no one could tell us apart. If I had my sunglasses on and my helmet.

Anyway, the real reason I wear my glasses is to protect my eyes, man. You gotta be careful these days, ever since the Disaster. The Nuclear Disaster that is. The Big One. The Numero Uno. Le Grand Fromage. The El Supremo Disaster. The Disaster which made all the other disasters begin with small letters. Man, it was wicked.

But, hey, life goes on, doesn't it? OK, so things are a bit harder these days. Back before It happened, you could sprint round a track with nothing but the occasional oilslick to worry about. Pick up a few spanners and you were away: Turbo boosters, extra-sticky tyres, power assist steering – you know the drill. Good clean healthy fun.

Man, that was history. These days no one goes nowhere without a full set of armour plating. You better believe it – just watching a race is now an offical health hazard. Each set of wheels comes with a machine gun as standard, 'cos if someone is in your way you don't spend time thinking about tactics. You just convert his car into a Nigel Mansell special. Scrub it out.

Course, you still got all those Turbos and whatnots, but this time you also got rockets to buy. No one argues with those bables: Whammol and it's out with the replacment car. Now that's my idea of overtaking.

The circuits have changed too so don't expect no more pansy custom built race tracks. We race in the real world: Knackered cities, scrap yards, chemical factories, Interactive carparks – in other



BADLANDS

Publisher: Domark Price: £24.99



words the worst, man, the worst.

What makes it better is that you can also blow these dumps away. Sure, take a dislike to a certain chemical storage drum and

Kerstunchl it's gone. Oops, did I leave a huge acidic slick for you, buddy? That's too bad. Hur, hur.

And when you raced all eight, you just turn around and race 'em again. Freaky stuff man, re-negotiating all them corners. That is, if there are any corners left. Sometimes the ground get's a bit weak, ya know? Tends to fall away in places. Isn't the state of the roads shocking?

Yep, things have changed around here. Now you got yourself a real race. No more mister nice guy. If you had yourself a fine time with the old-style racing, you're just gonna *love* this one. Take my word on it. Or face the consequences. And my rocket launcher. OK?

Graphics

Superb. The high resolution display of the Amiga could have been custom built for this kind of game. Equals the arcade version easily.

Sound

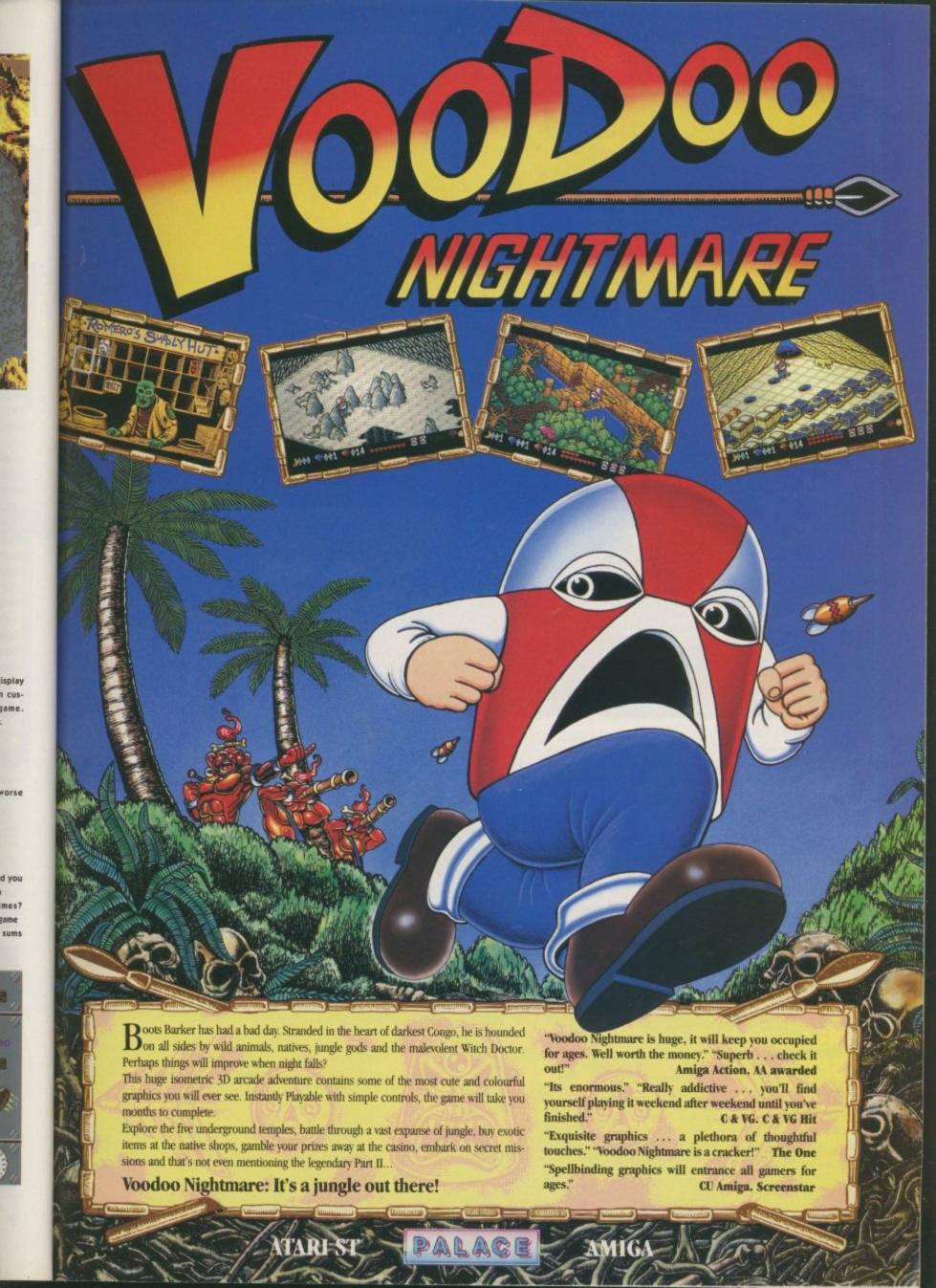
Better than average tunes, worse than average sound effects.

Value

Let's see: How many times would you play this game in an arcade? Ten times? Twenty times? Fifty times? This is how you would rate this game in the value stakes. Work the sums out for yourself.







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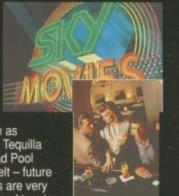
- Who invented the very first TV set? a) Bell in 1900
 - b) Baird in 1926
- c) Einstein in 1929
- 2 When did commercial TV start in Great Britain? a) 1955 b) 1969
- c) 1970
- 3 Which was the first Royal coronation to be screened on TV? a) Elizabeth II b) George VI c) Edward VIII
- 4 Who wrote the theme tune to the award winning film, Chariots of Fire? a) Phil Collins b) Mike Oldfield c) Vangelis
- 5 Which star of Wall Street is a famous son of a famous actor?
 a) Jason Connery
 b) Kiefer Sutherland
 c) Michael I c) Michael Douglas
- 6 Mork appeared in Good Morning Vietnam. Who is he better known as?
- a) John Belushi b) Robin Williams c) Tom Conti

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Database Publications/Legion

WE



Under fire from an enemy gun emplacement



I wonder if they want to make friends



Just vape the suckers!

NEGRON

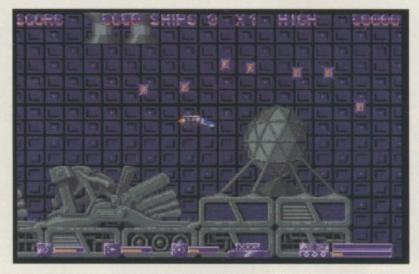
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WELL, the interesting thing here is that apparently sideways scrolling shoot 'em ups are beloved of all nearly intelligent races.

You are at one side of a latticework of levels, the premier bad mother (TM) is on the final level at the other side. If you complete the first level, you have a choice of three levels and two directions to go in, so even if you can't get any further, at least you'll be able to play four levels.

The levels around the edges tend to be easier than those straight up the middle, but as you'd have to play one or two more to actually get to the other side, and as they are all horribly difficult, the value of taking the roundabout route becomes a moot point.

Anyway, off to level one, and disruptor,



its arm your ship time, to the accompaniment of a simple yet menacing tune. You get five points

multiplier. Since it's nice to have lots of everything there obviously isn't enough to go round. If you finish to spend on: Ship speed, bullet the first level you get an extra two spray directions, bullet strength, points, but sorting out your original bouncing bombs/missiles, the five is tricky. What you need is a bit shields and score more speed, lots more bullet power, and one bouncing bomb. At the end of this level you need to be able to change your fire pattern so a point has to go on that.

Right, on with the action. A smallish screen scrolls pretty smoothly from right to left. Sprites are reasonably good, but the scenery doesn't match even Menace, never mind Blood Money. There are two real bottlenecks on the first level, where the scenery closes in, and killer beserker sprites gallop madly at your ship.

Manic jabbing of the fire button is required in places, while careful manoeuvring is called for in others.

If you finish a level you get a password, but you are only allowed up to three passwords so you need to be able to complete two or three levels per game in order

Is he shooting at me? Surely not.

to get to the end. Personally I find it impossible to believe that anyone could do this. If I, as naturally gifted as I am, find the going nose bitingly difficult then I'm sure you lot certainly will. You do have to learn the patterns, know what's coming up next, and you do have five lives to help, but its still flendish. And that's only the start. Out of the next three possible levels, one is virtually impossible, one is almost impossible, and the other is merely very hard.

While not really matching the releases from recent years in terms of outstanding graphics and sound, Necronom is passable to good in all departments, and offers the severest challenge to joystick hotshots since.... um, since the last

Graphics

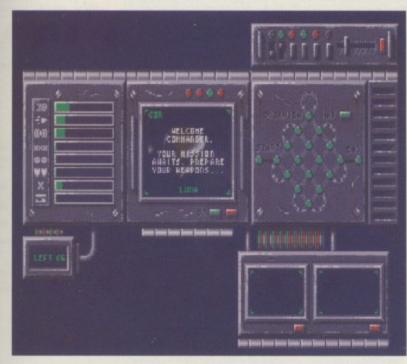
While not as outstanding as some of their older releases the smooth scrolling and interesting sprites are well done. The backdrops are a bit poor.

Sound

A bit lame really. A definite sense of "I've heard it all before".

Gameplay

Impossible yet addictive, the aim of all shoot-'em-ups. It gets so hard that even a gaming supremo like me is hard pushed to make it past the later levels. There is enough here to keep you going for a fair old while I should imagine.



Ooeer, this looks a bit complicated for a mindless thug like me.

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Commodore A500 Flight Of Fantasy AMIGA. **A500** ESCAPE / ROBOT MONSTERS:

The Commodore A500 Batman Pack must surely rank as one of the most popular computer packs ever! The pack features the Commodore Amiga 500 computer with mouse controller and TV modulator, plus four top software titles. The software includes: 'Batman The Movie' - Rid Gotham City of the cunning joker, in Ocean's top selling title based on the blockbuster Batman film; New Zealand Story - high quality conversion of the leading arcade game; Interceptor - Dogfight with two F-16's in this leading flight simulator; Deluxe Paint II - top quality Amiga graphics package which set the standard for others to follow. Return the coupon for further details.

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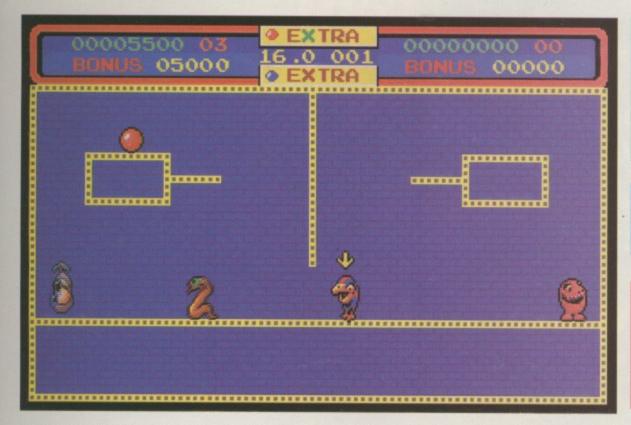
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Which computer(s), if any, do you own?



HELTER SKELTER

Publisher: Audiogenic Price: £24.99



Graphics

How many different ways are there to animate a bouncing ball? Lots of different monsters but once you've seen one set of bug-eyed things you've really, as they say, seen them all. There is a wonderful built-in editor though.

Sound

Nothing particularly mind-warping in this department I'm afraid.

Gameplay

Controlling your ball is not the easiest thing in the world as I sure you'll vouch. In fact, getting Bobby or Billy ball to bounce in the right places is remarkably difficult and is going to take a lot of practice.

BILLY was a ball, a nice little, red bouncy ball. Bobby was Billy's cousin, and every day they played together in the sunshine, bouncing this way and that between the children and loving every minute of it. One day, they were playing as usual when a big man threw Billy and Bobby at a wall and knocked them out cold.

The next thing that the two balls knew was that they had been grabbed by a man from Audiogenic and had been squeezed into a computer. Now Billy and Bobby are forced to bounce around a screen all day.

They'd much rather be playing with the children but instead they are the main characters in Helter Skelter.

This is strange name for this game as there's not one helter skelter in it. Anyway, you might be wondering what it's all about. Well, you don't have to free Billy or Bobby from the computer 'cos you don't have to play the game, but even if you do, that's not the idea.

Billy and Bobby have been employed to rid 80 levels of bugeyed monsters. If you tire of the 80 levels already available, why not design your own with the built-in Can you bring the bouncing ball to bare

editor. Each level consists of a number of platforms which are the haunts of monsters. These monsters really aren't doing any harm but your brief is to bounce on them anyway.

Yes, the object of the game is to get your ball – either Billy or Bobby – to bounce on these poor defenceless creatures who do nothing to harm the environment and really look quite pretty, except for the ones that are really ugly and deserve to be thoroughly thumped.

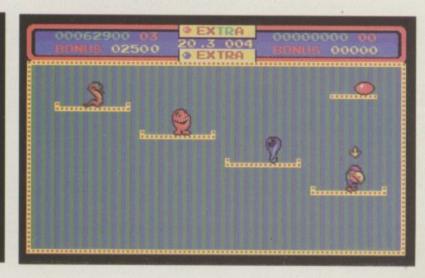
Bouncing on these creatures causes them to vanish, but only if you get the one that's selected by the computer.

If you get one that's not due to be squashed then you simply squeeze it into two monsters and add to your work load.

To add to the trouble, if you get one of these smaller monsters, its partner increases in size. This means that if you hit him again before his turn he will divide into two again.

Helter Skelter is a really fun game. It's damned addictive and is certainly something to sink your teeth into.





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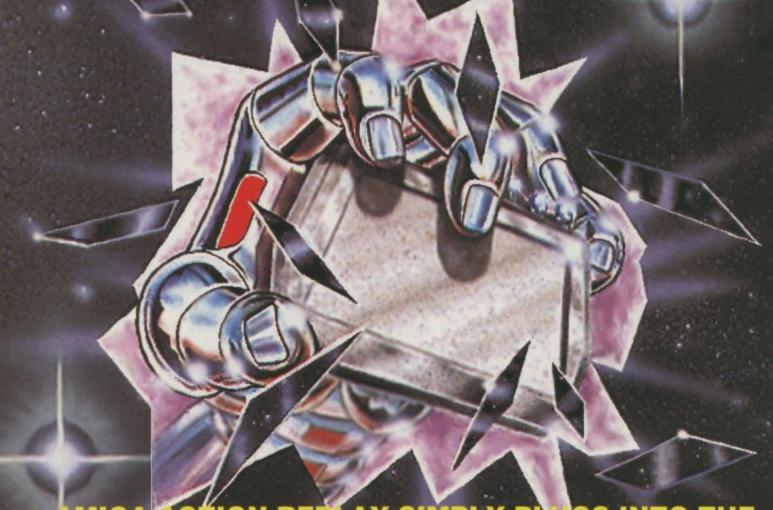
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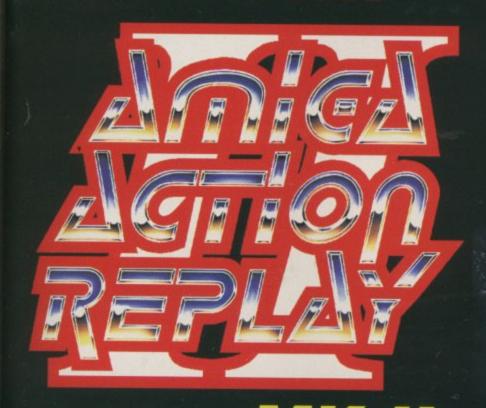
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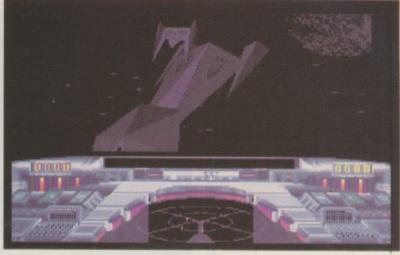
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Don't think that this ship is an easy target, as it's armed to the teeth



The more ships you shoot, the more credits you get to spend



You haven't got many friends in this system, so keep your eyes open

XIPHOS: What is it, where is it, and if you find it, what do you do with it? The answer to all these questions and more will be revealed thanks to the coldest killer in the universe, the Han Solo of Adlington, yes you've guessed it - me.

ES

py.

ly

The game is based on the continuing struggle between two warring factions in deep space (The Pio and the Qon), both of which are descendants from the same race, which in the distant past was silly enough to delegate total responsibility of running their near perfect world, to their ultimate creation Xiphos (booo,

Xiphos is a somehow familiarly mad entity, and would be villan of the piece. A huge super intelligence, which for reasons best known to itself, after hundreds of years of trouble free service, one morning announced."I quit".

Thereby plunging the now totally dependent Xiphonions into a technological dark age, with no power and no expertise to rebuild their crumbling culture.

You play the part of an undercover agent sent by the Galactic council, of which the Xiphonion system was formerly a increases an effect similar to gravity member. Your mission is to traverse the six levels of Xiphonion inner energy. If, however, you travel

Publisher: Electronic Zoo Price: £24.99

space, at the centre of which is Xiphos, not only responsible for the demise of the Xiphons but also completely suspected of causing strange disappearances and possibly altering the fabric of space time.

In order to travel through the increasingly hostile levels you take on the guise of a wandering mercenary fighting for either side. allied only to maximum profit.

This has a dual purpose, not only disguise, but as the only method of raising sufficient funds via bounty, to buy supplies to continue your quest south, and towards Xiphos via the pole base at the southern end of each level.

Unfortunately travelling south which dramatically depletes your

north energy is increased, but it also means you'll be travelling in the direction.(Tricky...eh?)

Here lies the trading aspect of the game. After firstly picking your target carefully and dispatching them to the next level of consciousness you will receive your reward, with which you can trade for goods with your victim's opponents.

A map can be built up of the various locations of stations and their allegiances, although this can change due to conquest. The conservation of resources is essential, as running out of energy was the main reason for my regular and early demise.

It's perhaps slightly unfair to

Graphics

When I first loaded the game and flicked through the manual, my first thought was, "Greatl... At last, Starglider III or there abouts". Unfortunately that's not the case. The graphics are very similar, the backgrounds being very impressive and, with the possible exception of the tractor beam which looks like it was stolen from a speccy, they're

Sound

The fairly usual run-of-the-mill pings and explosions. A few years ago they would have been great but they all seem a little too familiar now.

Gameplay

The dog fights are perhaps a little too tricky, making the accumulation of the required credits and as a result, the purchase of essentials, simply a little too hard.

constantly, but it's almost unavoidable with the graphic similarity and the general scenario. Nevertheless I still feel the program lacks depth, being essentially a multi-level shoot-em-up, with a bit compare Xiphos with Starglider II of simple trading for good measure.

This is the only time you are safe (well, relatively anyway). Fuel up, arm your plane and get at'em!

WHEN I was younger and thought that my Tandon PC was a really nice state of the art piece of gear I had one game that was my most favourite of all. Many of the more sentient of you will never have heard of this game - in fact many of you may not have heard of PCs.

Anyway, the name of this game was Sopwith, and the plot was quite simple. Piloting your plane from an elevation viewpoint (side on) you had to engage in dogfights with enemy craft and drop bombs on cities and gun emplacements until everyone had had enough.



WINGS OF FUR



Publisher: Domark Price: £24.99

This was by far the best game I ever played on the PC and probably the game I have played the most on any machine. And this was on a nasty monochrome monitor running a CGA simulator. How much better, I remember thinking to myself, this game would be if it had graphics and sound.

Somewhere else across the universe of thought someone must have had a similar, if not the same, idea - here comes Winas of Furyl

The plotline has been developed somewhat. You are the pilot of a American carrier in the Specific Ocean around 1945.

This is an unpleasant place to be because the place is swarming with Japanese. That's not to say that the Japanese aren't nice people these days. I mean, in WWII they murdered and tortured civilians, summararily executing those who stood in their way. These days all they do is torture and murder business with high import taxes and murder, torture and eat endagered species - no comparison really.

The aim is to eradicate the enemy by destroying their island bases and sinking their ships. Air



combat may ensue, sneaky Zeros (which were manufactured by Mitsubishi as a matter of interest) defend some islands and most

A choice of weapons - bombs, Hellcat, operating from an rockets or a torpedo - will outfit you for your mission. It may be necessary to fly a sortie and then return to your carrier in order to rearm with different weapons. Bombs are the most universally useful, especially when attacking ground

installations. Rockets seem to be rather haphazard and innaccurate whereas torpedos are incredibly unreliable and obviously only useful for sinking ships. Remember you have machine guns for dogfights and those all important straffing runs.

Landing back on the carrier is quite difficult. The problem can be compounded if your plane has received a bit of a pasting from the Nips' Ack-Ack or the odd Zero. One slip, one fatal slip and it's goodnight Singapore.

The variety of missions and the inherent strategy requirements for each level make every flight seem different and challenging. I know I said that Sopwith was my most played game ever, but I have a feeling that may soon change.

animation of the plane as it climbs and dives is more than made up for by the excellent effects as enemy soldiers are pinned to the ground by a well timed burst of cannon. A

Sound

The sound effects may seem a bit tame.. The tune is quite stirring but uses the same boring old samples that have been around for years. The best effect is, if you'll excuse the gore, the squeal of an infantryman as he gets shot or a 100lb bomb lands in his vicinity.

This is a game that attacks the central nervous system directly, it ovverides all other considerations except massive doses of coffee to enable you to work nine-to-five and play six-toeight. The control of the plane is a little difficult to get the hang of at first, but the Hellcat was a difficult plane to fly in reality anyway.



Graphics

Excellent. They really are. The triumph of the pixel sculptor's art.

Gameplay

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NGHTBREED THE INTERACTIVE MOVIE

Publisher: Ocean Price: £24.99



While searching around the cemetery you are bitten and infected by Peloquin. You must run for your life or be completely devoured.

none of which Boone could recall. suicide attempt.

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a white room. Where was he? peace.

HAVING been endlessly questioned Heaven? Hell? No, having been and heavily sedated, Aaron Boone struck by the truck, Boone's body tried to take his own life. Somehow was thrown to the side of the road. his psychiatrist had concluded that He had been rushed to the local storyline to the letter and as you he was responsible for 11 hospital with no more than a few particularly gruesome murders - serious bruises to show for the find yourself in some pretty hairy

It was while Aaron Boone oncoming truck all Boone could convalesced that he encountered the identity of Mask, the real killer, to think of were the grotesque a somewhat disturbed character the world. pictures Decker had shown him. by the name of Narcisse. It was Midian, a hidden city where Boone regained consciousness in monsters of all denominations live in Decker, Boone's

psychiatrist, had convinced him that he was indeed a monster. Midian seemed the natural place for him to go. That night, Boone escaped from the hospital.

Using Narcisse's somewhat sketchy directions, Boone found his way to an abandoned cemetery. Surely this couldn't be the place. It was then that Boone felt a sharp pain in his shoulder. Someone or something sank their teeth into his already battered body. Running for his life, Boone managed to escape the clutches of his attacker only to run headlong into the hands of Decker and the police. Boone heard a volley of gunfire and fell to the ground, dead.

You play the role of Aaron Boone in search of the wondrous world of Midian. The game follows the film's progress further into the game you'll scrapes. Your ultimate goal is to prove your innocence and reveal

Anyone who could perform such from this strange being that Boone to call upon the help of the butchery didn't deserve to live - first heard of a place known as inhabitants of Midian, the Nightbreed.

> The game is controlled via the mouse using a simplistic point and play on your conscience for ever.

Graphics

The wide range of graphics featured in Nightbreed make it a very appealing game. Some of the still screenshots are particularly effective in conveying the eerie atmosphere needed. The few arcade sequences are animated nicely and as a whole the presentation is first-class.

Sound

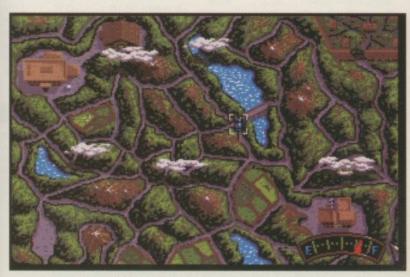
The main theme music takes the form of a haunting little ditty that accompanies the game well. The numerous spot effects enhance the atmosphere until you believe you could almost be there.

Gameplay

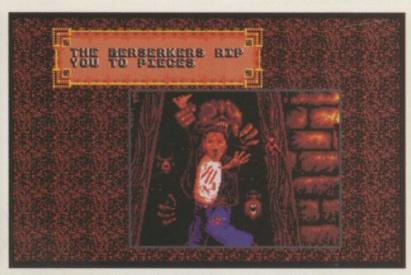
Despite excellent presentation, Nightbreed suffers from being somewhat shallow in its gameplay. Although there's a lot to see, the challenge is rather lessened by the fact that all the puzzles can be solved using a trial and error system. All in all, Nightbreed falls just short of the mark and rates as a disappointing piece of software.



click style method. The action is split into two distinct stages, the road to Midian and the underground city In order to succeed you'll need itself. During the game you'll be called upon to play various arcade sequences, none of which are too taxing. Ultimately you must win through, otherwise the murders will



out for police roadblocks.



You must get around the surrounding area by car. Be sure to watch Upon entering Midian, the members of the Nightbreed do not recognise you as one of their kind and tear you to shreds.



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Having visited the shepherds, you are captured by a ferocious looking dragon. If only you had a spell to render him harmless...

IT was long after the passing of the second shadow, a time when huge dragons ruled the twilight skies, that human-kind began to thirst once more for domination over nature. Their weapon in the fight was industry, a skill they wielded with great confidence. As man unravelled the mysteries of light and darkness his power and knowledge grew in accordance. Soon, entire nations believed nothing lay beyond the powers of their own arrogance.

Competition proved fierce. skilled labour was a valuable commodity and tradesmen joined together in order to protect their valuable secrets. These professional societies swelled as their memberships grew and a few of them, notably the blacksmiths and clerics, acquired vast territories with private armies to defend them. Thus the age of the Great Guilds was born.

One guild, the weavers, were not interested in the acquisition of land and greatness; they simply wanted to advance their art. In an effort to break away from the rest of mankind, they isolated themselves on an island that became known as Loom.

As time passed, the weavers did indeed advance in their skills. In fact, the art of weaving more than improved - it became magical! By spinning the threads in certain ways, the guild members found they could cast different spells.

Using the great loom, the guild wove great magical tapestries until one day a young female weaver managed to weave a child. Rather



Publisher: Lucasfilm Price: £24.99



You find yourself travelling down a twisty mountain path. Things would be far more simple if the road was straight

than welcoming this magical event, the Elders of the Guild became anary.

They banished the young woman from the island of Loom and the babe was taken into care. Seventeen years have passed, the weavers' magic has begun to fail.



The blacksmiths are making weapons for the warlike clerics. Using your specialised skills you must stop their industrious fever.

The Loomchild has been summoned by the Elders, the adventure has begun.

adventures. Like some games, there is no text input. Control is via the mouse, using a simple point and click technique. Magic is a key

Graphics

The graphics found within the world of Loom are first-class. The scenery is expertly drawn, almost to a point where you begin to believe the place actually exists. The animation on the sprites is excellent and the programmers have included a variety of subtle movements that further enhance the game's overall appeal.

Sound

Loom features a whole selection of intricate tunes, all choreographed to tie-in with what's going on onscreen. The hundreds of different sound effects enhance the gameplay and the help maintain maximum atmosphere.

Gameplay

Loom is more than just a game. As progress is made though the story it becomes apparent that what you are in fact playing is an interactive story. Unlike other adventure games, the point and click system does take a little getting used to. However, once mastered, progress can be quickly made. The game's only real shortfall is the fact that the puzzles can be solved largely by trial and error, thus lessening the challenge somewhat.

part of the game and spells are cast by forming combinations of musical notes found upon your mystical Distaff.

You play the role of Bobbin, the Loomchild. The sacred loom has been broken and the magical powers of the weavers are beginning to wane. Your mission is to venture into the Industrial world Loom is unique among to discover the reason behind these strange happenings.

> Only when you prove successful in your task will the Island of Loom be restored to its former glory



The shepherds seem to be experiencing a little bit of bother with a Mandible, the head of the Clerics, sees his ambition to rule the world great dragon eating their flock. Can you help out?



get blown away as he raises an evil spirit.

A watery duel ensues as Bond battles against one of Stromberg's evil henchmen. Too many collisions and your craft will sink.



Taking jumps at an angle can cause some hilarious effects. Two wheel driving may look fancy, but it's very dangerous!



Deep sea capers ensue when Bond's minisub is attacked by the meglomaniac's army of underwater assassins.



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RATHER than opt for the latest James Bond licence, Domark have decided to recreate one of 007's earlier escapades. Pandemonia breaks out when both an American and a Soviet submarine disappears. Who can be behind this terrifying global take-over bid? No one knows for sure, but the British Secret Service are on the case and assign their most famous agent, James Bond, 007, licenced to kill.

brains behind the The "kidnapping" of the two nuclear subs is none other than the wealthy industrialist, Karl Stromberg. It seems Mr. Stromberg wants to create a better world and, from his undersea fortress of Atlantis, he has sent an ultimatum to the world's two superpowers. Either they pay him the equivalent of Brazil's national debt or he nukes Hollywood and Red Square; it's hardly cricket.

Naturally, Bond is deployed to put paid to the meddlesome maniac's preposterous plan. En route he teams up with the KGB's ace agent and together they set out to reclaim the stolen subs. Of course, Stromberg is none too pleased at their intervention and decides it might be best if both 007 and his friend take a short vacation in a lead-lined box.

Racing through the winding roads of Sardinia (Spy-Hunter style), Bond is attacked from all angles. Using his finest driving skills he manages to elude capture before his Lotus Esprit transforms into a speed boat and the chase continues over water.

En route Bond may collect numerous "Q" tokens. These may be exchanged for vehicle enhancements such as paint sprays and smoke screens. Q's creative mind has thought of an even greater option - the ability to change your Lotus from a racey sports car into a highly manouverable minisub. This latter metamorphis proves vital when you drive headlong off a nearby jetty.

So the action continues with

ESPY LUVED

Publisher: Domark Price: £24.95

has at his disposal in the path of the relentless Bond. The chases take place on land, on sea (using both a boat and a jet ski) and under the

worth the tax-payer's money, he wins through and saves the day. Stromberg, being something of a lilly livered coward, hops off

Stromberg throwing everything he ocean waves. Eventually, if 007 is somewhere. Leaving Bond to fight it out with his oversized bodyguard, the steel-toothed, Jaws.

Who will be victorious? 007's fate lies in your hands.



Graphics

Although the sprites are somewhat smaller than normal, no details have been omitted. The game is presented very nicely and the scrolling is particularly smooth. Because of the numerous different levels, there are also a nice variation of things to see.

Sound

No Carly Simon here, Domark have taken the original Bond theme and souped it up somewhat in the form of a special house remix version. The spot effects are well implemented and work well. As the song goes, nobody does it better.

Gameplay

Despite backtracking somewhat, Domark have produced a first-rate game that incorporates both Spy Hunter and Operation Wolf-style gameplay. Difficulty has been set at just the right level, allowing players to progress each time they play.

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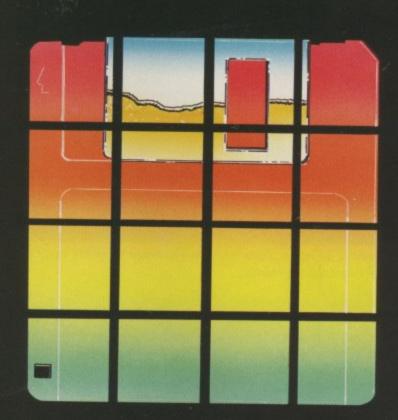
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SHADOW OF THE BEAST

Publisher: Psygnosis Price: £34.95

SHADOW of the Beast II is very similar to its highly acclaimed predecessor. However, Psygnosis have listened to the comments made about the first game and improved upon them for this, the second instalment of the Beast

Having fought your way across the plains, you managed to reach the killer of your father, the Beast Mage, Zelek. A long and arduous battle ensued and as the sun set in the east only one shadowy figure rémained standing. Against all odds you had defeated the powerful wizard and avenged the death of your once proud father.

As time passed, people moved to the furthest reaches of the land in search of a more bountiful life. What with the Mage long since until it had become a hideous deceased the peasants slept safely in their beds, or so they thought...

One terrible night, high on mountain top, the silhouette of a lone figure could be made out against the dark night sky. As rain poured out of the sky and lightning flashed all around the strange figure raised a staff causing weird



The forest is a sacred place and the tribesmen certainly don't like intruders violating their lands.

winged creature. Gliding effortlessly down from the mountain, the

Inside a baby screamed as its mother looked upwards. A menacingly huge hand reached in

electrical currents to run all over his and grasped the babe. The body. The figure turned and twisted creature took off into the distance, leaving the poor woman all alone in the darkness.

So it was that the Beast Mage creature swooped over a returned, taking your only son in the lonesome cottage ripping off the process. There was no question of Kara-Moon probing questions. roof as though it were made of what you must do, even without You may even barter objects in your Beast powers you must travel return for information and help. to the Kara-Moon, defeat the Mage and rescue your heir.

Beast II looks quite similar to its accompanying the disks.

Graphics

Psygnosis pride themselves on producing state-of-the-art graphics. Shadow of the Beast II has to be their best yet. Superbly animated creatures inhabit the land of Kara-Moon and the landscapes are truly breathtaking, especially when you see the amazing 13 levels of parallax scrolling. In a word, Brilliant!

Sound

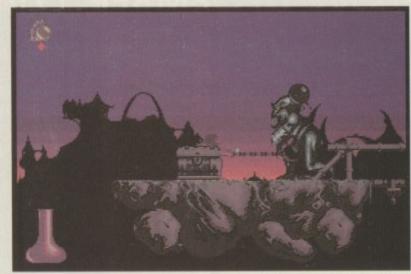
The haunting theme tune sets the atmosphere perfectly. The many sound effects are varied and extremely well implemented. Even the "game over" sequence is a joy to listen to with its impressive guitar

Gameplay

Shadow of the Beast II is a first-rate arcade game. Control is via the joystick and moving around Karamoon couldn't be easier. The puzzle solving element adds a hidden depth to the game and definitely increases its lasting appeal. When you combine the top-quality presentation and the superb gameplay you've got one heck of a game.

predecessor. That is, it takes the quise of a platform-style game come beat'em-up. The two main differences between the two Beast games are that this second instalment is much bigger and it requires far more lateral thinking and puzzle solving. Players may now collect coins to spend on needy provisions. Clues can be gleaned by asking the inhabitants

One thing that hasn't changed is the Beast-ly T-shirt found



Chests contain health-giving potions and valuable cash. But they're Puzzles and traps abound. If I were you I'd kill that menacing giant guarded by huge monsters which must be slain first.



before he pushes the spiked block your way.

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> Stephen Franklin Managing Director



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Official Secrets is tailored to the needs of adventure and role-players, supplying a wide range of pecialist adventure software through Special Reserve.

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54 Tottenham Court Road, London WIP 9RE. Tel: 071 636 2547

Welcome to the 1990 Xmas Commodore show. Micro Anvika are pleased to be taking part in this ears Xmas show again and as always in keeping with the tradition we have packed our stand with tockings full of goodies.

Whether you are looking for the latest in Amiga software or hardware we are at your service offering the best price on any goods at the show. We wish all our visitors a Merry Christmas and a Happy new Amiga Year

Stand 26

CYB Computers

wn Parade, Crown Lane Morden, Surrey SM4 5DA. Tel: 081 542 7662. Fax: 081 543 7527

Surreys premier Amiga dealer. Anything for the serious Amiga user is catered for. See us at the sand or visit our really large showrooms. Superb mailorder service.

If you have any questions or problems concerning Amiga hardware or software, come see us. Good prices on all products. The competition knows us, you should tool."

Stand 28

Solid State Leisure

Finedon Road, Irthlingborough, Northants NN9 5TZ. Tel: 0933 650677. Fax:

Solid State Leisure is THE rising star of the Amiga market, with and expert progject design team and tate of the -art research and development equipement, coupled with large scale manufacturing facilities, it is set to take the Amiga market by storm.

passing divergen Stand 31

t, Cartridge bring Softstore

8-410 Bath Road, Slough SL1 6JA. Tel: 0628 668320. fax: 0628 668592.

cartridge allowing Stand 33

and interesting in Power Computing

4a Stanley Street, Bedford MK41 7RW. Tel: 0234 233000. Fax: 0236 270133.

from floppy drives, memory expansions, chips and software, to the latest in hi-tec hardware from America, you will find it all on the Power Computing stand.

Look out for the 50MHz 68030 accelerator card for the B2000, and the 600MB Optical Drive. Also on show will be the brand new A500 hard disk drive from GVP, the Amiga Framegrabber, and he new VideoMaster Digitiser-Genlock from Vidtech

You can buy our Dual Amiga Floppy drive, the 512k Memory Expansion, and the 1.5Mb Memory opansion all at exciting show prices!

5713. Fax: 08 Stand 37

Europe's trailblazin **Greater London Computers**

81 Hale End Road, Highams Park, London E4 9PT. Tel: 081 527 0405. Fax: 081 31 2688

d 50 games pad Stand 38

o be discounts or Electronic Arts

s, no obligation to The Langley Business Centre, 11-49 Station Road, Langley, Berks SL3 8YN. Tel: 0753 49442. Fax: 0793 46672.

Electronic Arts is a leading producer of home entertainment computer software. With the success of titles like Polulous, 688 Attack Sub, Deluxe Paint III, and Interceptor, the company has been a dominant force in bringing interactive entertainment to the market.

Showing in their booth are a unique line of products ranging from fast racing action with Indian apolis 500, magical wizardry with The Immortal and ultimate conquest with their new hit PowerMonaer.

PowerMonger is the next product from the designers of Populous, Bullfrog Productions. Electronic Arts welcome you to visit their booth, play their games and ask questions.

Stand 40

Domark

Ferry House, 55-57 Lacy Road, Putney, London SW15 1PR. Tel: 081 780 2222. Fax: 081 780 1540.

Amiga...C64 Games Systems...Commodore 64. Whatever the machine you own trust Domark to come up with the goods! We've got a fabulous selection of software from arcade games to flight

On the Amiga fly the ultimate in fighter jets - the MiG-29 Fulcrum or test drive the amazing Hard Drivin'll - sequel to its No 1 Best Selling predecessor.

If speeds your aim then S.T.U.N. Runner's your game and don't forget Spy and Badlands.

New for the C64 GS are the amazing Tengen coin-op conversions of Vindicators, Cyberball, which gives a new meaning to American football, Klax, the addictively simple brainteaser and Badlands, sequel to the superb Super Sprint.

Take Bond on at his own game in The Spy Who Loved Me and beat the best in the dirtiest race in town - Badlands. Both for the Commodore 64.

Stand 42

Silica Shop

Unit 10 Ruxley Corner Industrial Estate, Edginton Way, Sidcup Bypass, Sidcup, Kent DA14 SSS. Tel: 081 309 1111. Fax: 081 308 1230.

Silica Shop are the UKs No 1 Commodore Amiga specialist retailer and hold the largest range of Amiga products in the country.

They will have a wide selection of these products at the show, covering both hardware and software. Silica have been dedicated to the Amiga range ever since its release into the UK market and are now the undisputed leaders in the Amiga field.

Apart from their London and Sidcup branches, Silica run a speedy mail order operation and provide Amiga owners with a specialist service that is second to none, including FREE newsletters

and technical support helpfine.

To receive Silica's FREE brochures, contact Silica by telephone or write to Silica Shop, 1-4 The Mews, Hatherley Road, Sidcup, Kent DA14 4DX, or you may register today at the Commodore User Show by completing a card on the Silica Shop stand.

Both Silica branches and mail order department will be extending their opening hours during the Christmas period. For further details call Silica on 081 309 1111

Stand 46a

Mindscape

O Box 1019, Lewes East Sussex BN8 4DW. Tel: 044 486 545/547. Fax: 044 486 688. Mindscape will be showing all of its powerful Christmas line-up on Commodore Amiga, Commodore PC and Commodore GS.

Visitors to the show will get a chance to play the brand new game from Gray Matter called The Ultimate Ride - this is motorbike racing simulation at its very best with some amazing graphics from the paint box of the creators of Fiendish Freddy - making The Ultimate Ride a real interactive racing

Ever fancied a chance of becoming a hospital surgeon?

Life and Death for the Amiga puts the scalpel and the life of your patient firmly in your hands.

Mindscape will also be showing its autumn hit, Captive. Fans of the game will have the chance to meet programmer Tony Crowther and glean some hot playing tips or maybe even the real news about Captive II - Freedom Fighters.

Mindscape will premier the exciting range of simulation product by the world famous Three-Sixty team from California

The first games are Blue Max - the world war one dog-fight simulator and Das Boot a stunning U-boat simulation with a multiple mission scenario. Both will be on the Amiga before Christmas. For those who can't handle the pace from the rest of our Christmas games, there is at last the chance to play the world's best selling chess game on the Amiga - Chessmaster 2100.

There is no doubt that whatever your taste in games is, it cannot fail to be satisfied by a visit to the

Mindscape Grotto.

Stand 46b

Chettah

Norbury House, Norbury Road, Fairwater, Cardiff CF5 3AS. Tel: 0222 555525. Fax: 0222 555527

Cheetah, the UKs leading manufacturer of computer joysticks, peripherals and musical instruments,

will be proudly showing their new and existing ranges.

The company will be giving away free T shirts with the purchase of selected items as well as offering very special deals on other products.

Speech synthesisers, infra red joysticks and interfaces will be amongst these special offers, so a visit

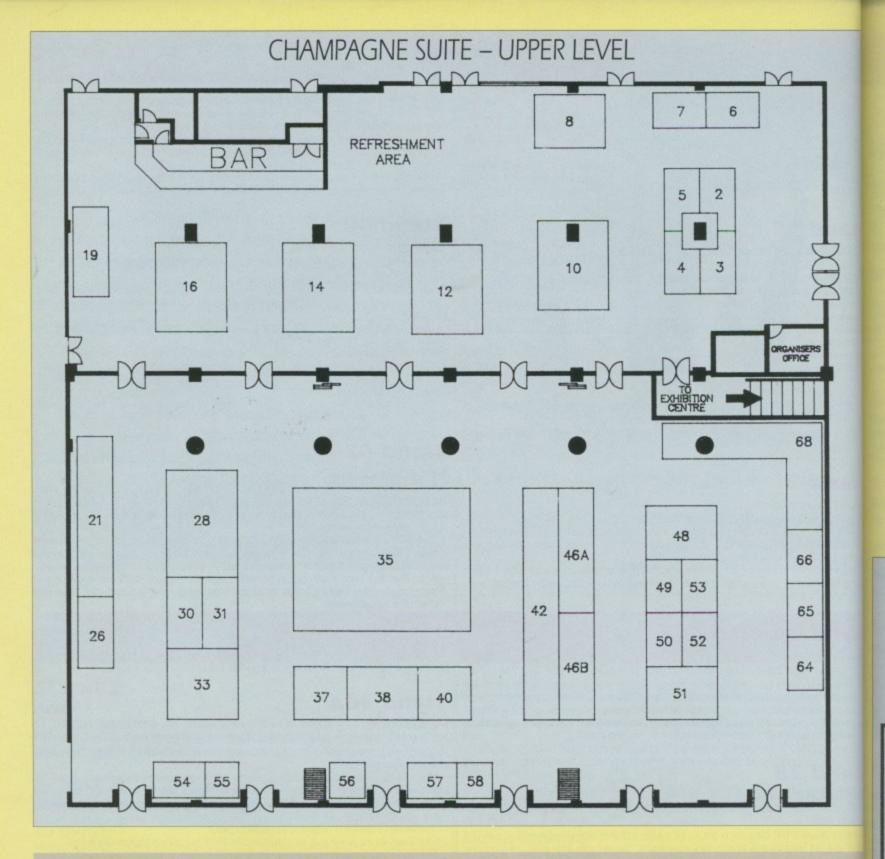
to Cheetah near the Commodore stand should not go amiss. Of course the company also manufacture games cartridges for the world's leading software houses, and personnel will be on hand to answer any inquiries

Stand 48

Marcam

62 Tenter Road, Moulton Park Business Centre, Northampton NN3 1AX. Tel: 0604 790466. Fax: 0604 647403.

Marcam have for the past four years been producing the high quality range of Rendale Genlocks,

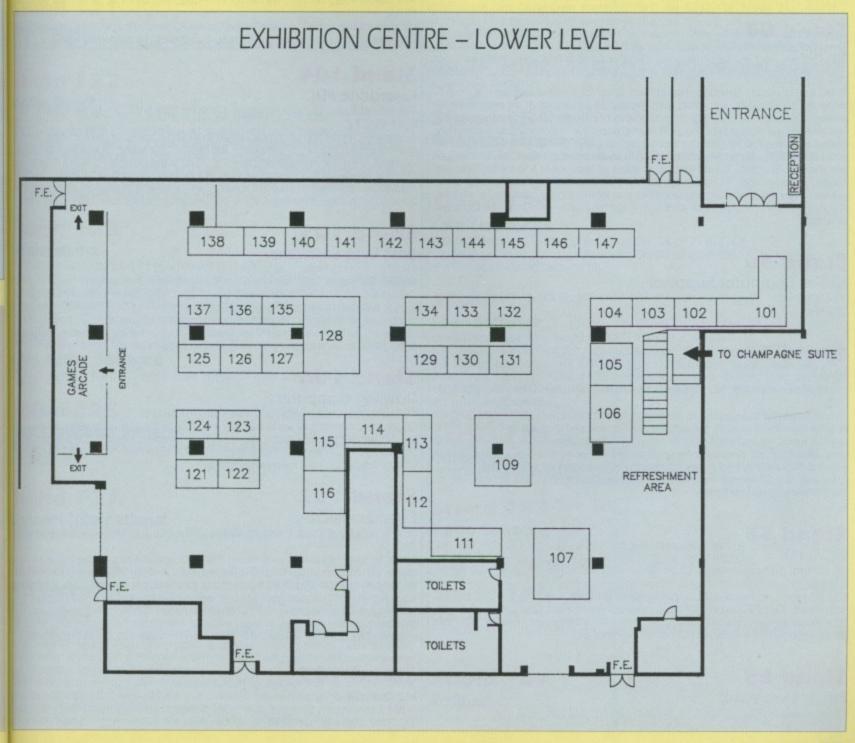


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Who's who at the Show – and where to find them





At this show we are launching the latest Rendale Genlock, a Super-VHS version of the economy priced 8802, this version as well as having the usual features of the 8802 also has fade and wipe

options fitted as standard, also mode control selection is provided by hardware.

Nowadays, as well as producing Rendale products, the company is also marketing quality third party products, such as the Framegrabber and 3D Professional, professional quality products from

Stand 49

A1500

3rd Floor, 21 Great Portland Street, London W1N 5DB. Tel: 071 637 2281. Fax: 071 637 4002.

A1500 has been formed as the trading company for the A1500 expansion system for the Amiga 500 by its inventor Michael Roots

Following two years of research and design, the product has been successfully prototyped over the last few months and is now in full production. The A1500 expansion system is being officially launched at this exhibition.

The system's capabilities include: Detachable keyboard, up to three disk drives (two floppy drives mounted at front), mouse and joystick ports at front, internal Amiga 500 and Amiga 2000 busses, Amiga 2000 video port, additional microprocessor socket, 19in rack mounting system.

Stand 51

Elite Systems

Anchor House, Anchor Road, Aldridge, Walsall, West Midlands WS9 8PW. Tel: 0922 55852. Fax: 0922 743029

Elite exhibits at the Commodore Xmas Show for the first time ever, showing some of the new C64 and Amiga products scheduled for release during Autumn/Winter 1990. On the stand we shall be exhibiting Gremlins 2 - Amiga, Tournament Golf - Amiga, World Championship Soccer - Amiga and C64. Also, an, as yet unannounced title scheduled for release January 1990. We hope this show will be a very good launch pad into this new phase of licensed products under development.

Stand 54

ICPUG

45 Brookscroft, Linton Glade, Croydon, Surrey CRO 9NA. Tel: 081 651 5436. Fax:

ICPUG, the Independent Commodore Products Users Group, is the premier computer user group in Britain and is in its twelfth year. Unlike many so-called user groups, which are only commercial marketing operations, ICPUG is a genuine association of computer users working together for mutual benefit and organized as a non-profit making co-operative. It is co-ordinated by a voluntary national committee, and there are many separate regional groups. Benefits of membership include access to the FREE public domain software library, technical assistance and discounts on hardware and software. The ICPUG Journal, which is produced six times a year, is in the region of one hundred pages per issue. It is widely regarded as the most authoritative journal on Commodore machines in the world, providing extensive coverage of the full range of computers including the Amiga, C64, PC, PET and all other models. For additional information please contact Janet

Stand 56

Hi-Tec Computer Supplies

131 Wellington Street, Peterborough PE1 5DU. Tel: 0733 555945. Fax: 0733

Stand 57

Hazlitt Mews, Hazlitt Road, London W14 OJZ, tel: 071 603 3313. Fax: 071 602

FMG are suppliers of repairs and on-site maintenance for all Commodore computers - from C64s and A500s to PCs. As well as repairs, the company also offers extended warranties on C64s and A500s to guard against any mechanical failure for two years. Just one payment gives you peace of mind and confidence in your computer for the period covered - if anything goes wrong, you simply send it back to FMG and they'll repair it for not extra charge. As a special offer for the show FMG are giving away free software with every extended warranty taken out. For details just pop along to Stand 57 in the Champagne Suite

Stand 58

Nova PD

30 Parsons Street, Banbury, Oxon OX16 8LY. Tel: 0295 262029. Fax: 0295

Nova PD provide a complete Public Domain service for the Amiga, everything from utilities to the latest demos. Over 800 disks in stock plus a free ordering service and same day despatch make Nova one of the most popular PD companies around. Nova have recently released a low cost Database system and this will be available from their stand for just £9.99.

Stand 65

Public Dominator

O Box 801, Bishops Stortford, Herts CM233TP, Tel: 0279 757692. Suppliers of Public Domain and Shareware software for the Commodore Amiga.

Stand 68

Mirrorsoft

win House, 118 Southwark Street, London SE1. Tel: 071 928 1454. Fax: 071 5

Mirrorsoft is Europes leading 16 bit Entertainment Software Publisher. In addition to publish Entertainment software under its two house labels Imageworks and PSS, Mirrorsoft also publishes behalf of three of America's most exciting software houses: Cinemaware, PSS and Spect Holobyte. All labels represented by Mirrorsoft have a strong brand identity and market niche. can offer European game players both at home and abroad a range of first class product catering every major market area. 1989 was Mirrorsofts best year ever in terms of critical acclaim commercial success. We believe our line-up for 1990 is even stronger.

Stand 101

Softsellers

6 Bond Street, Ipswich, Suffolk IP4 1JE. Tel: 0473 216160. Fax: 0473 213457.

Stand 102

Microsmart

25 Strong High Street, Milton Keynes MK11 1AT. Tel: 0908 564369. Microsmart a name that is associated with the more experienced companies of the indus renowned for it's 16-bit peripherals and utilities knowledge and stockholding, and still being w much in touch with the 16-bit games software market; involving titles old and new. We have got right product at the right price. So whether your need is through our wholesale or mailorder, ple

call a sales team that is down to earth, informative and not full of time wasting sales speil

Stand 103

Mutant Software

475 Staines Road, Bedfont, Middlesex TW14 6BL. Tel: 081 751 5999, Fax: 081 75

Computer software games. Specialists, Amiga Atari and PC games held at Mutant headquarters. immediate sale to the crazy games buying public - cum chek dis vt at stall nomber witefer.

Stand 104

Riverdene PDL

30a School Road, Tilehurst, Reading, Berkshire RG3 5AN. Tel: 0734 452416. Fi 0734 451239.

Riverdene PDL is more than just a public domain library with customers all over the world. We have grown to be one of the best by offering that 'little bit extra'. Our hotline, for example is on hand our reputation the serious Amiga user when difficulties arise. Also a laser outputting service is offered together well-electronic transfer on to 35mm colour slides of your favourite computer graphics. Computer hardware and software with associated ancillary items are available at very competitive prices to are a company our new shop premises in Reading. Come to our stand and see for yourself our Mad Hatter prices are a company

Stand 105

Best Byte Software

48 Nevill Avenue, Hove, East Sussex BN3 7NA. Tel: 0273 746467.

Originally founded in 1986, Best Byte has built a reputation in the mail order market as one At NADISYSTE service excellence with unbeatable prices. The very latest Amiga games will be available over a boxes, ribbon. counter at discount show prices. Large stocks of blank disks will be on supply which have provided range of very popular with customers. Peripherals from mouse mats to memory upgrades, from dust co-to disk drives will be on sale. Hot out of user groups hands will be the very best in music and graph demos playing on our stand (many previously unreleased) and for sale at a minimal charge.

Stand 106

Dowling Computers

48 Tyne Road, Sandy, Beds SG19 1SA. Tel: 0767 681760. Fax: 0767 681730.

On sale will be many popular products for your Amiga - prices will, as usual, be very competitive a Start Co our staff will be pleased to discuss your particular requirements. As well as the newer Am Participan Idea. products we will have the new range of Star 9 pin and 24 pin printers - mono and colour, May Barbican Ho wish you a happy show and a very merry Christmas.

Stand 107

Evesham Micros

Unit 9, St Richards Road, Evesham, Worcs WR11 6XJ. Tel: 0386 765500. Fax: 0386 Talls Lane,

One of the longest established companies in their field, Evesham Micros offers extensive hardy options, with a solid reputation for good service and prices. Awarded 'Atari Dealer of the year 198 Stand the company feels it is a significant tribute to their commitment to the Atari range of computeWTS Ele which extends over three years. Their mail order service utilises the latest in computerised mail or technology, whilst also operating retail showrooms in Evesham, Cambridge and Birmingham. The Studio Master have their own comprehensively equipped workshop, where trained technicians are available. Fax: 0582 50 help and advice. Customer Services and Technical Department offer complete after-sales assistance WTS Specialist

Stand 109

Mediaware

unit 19 Teddington Business park, Station Road, Middlesex TW11 9BQ. Tel: 05 may have, or 1977 8777. Fax: 081 977 9444.

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72 Amiga Computing

Stand 111

Harpers Computers

Fax: 071 58:71 Commercial Way, Woking, Surrey GU21 1HN, Tel: 0483 756601, fax: 0483

tion to publishin Harpers Computers have been involved in supplying computers for nearly 10 years and can offer talso publishes or amost all you require. We will be selling the latest range of Commodore computers along with SS and Spectrumany peripherals including Star and Citizen printers. We hope you enjoy the show and please do vist our stand or your won't know what you missed!

market niche. W roduct catering fi itical acclaim an **Stand 112**

Bits 'N' Bytes

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Fax: 081 75

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12 Dial Lane, Ipswich, Suffolk.

Bis'N Bytes computer centres are one of East Anglia's leading computer retailers covering all aspects the computer industry from games machines to the 386 desktop PC. On sale at this venue will be le bit software including new releases as well as back catalogue titles at massively reduced prices. This will be one off offers for the 16 bit fair. Computers, printers, monitors, and peripherals will also e available at massive discounts. It will be possible to order hardware and software at this venue and have it mailed to you the following week

Stand 113

of the industry Software Selection d still being ver

PO Box 786, Sutton Coldfield, West Midlands BT4 4MG. Tel: 021 352 0847. Software Selection - Games for Commodore Amiga, C64 - C16 at bargain prices. We have got the

Stand 114

Athene Computers

6 Stoke Road, Gosport, Hants PO12 1JB. Tel: 0705 511439. Fax: 0705 511646.

Stand 121

Digital Discs

Burnside Drive, Bramcote Hills, Beeston, Notts, NG9 3EE. Tel: 0602 256197.

Stand 122

Media Direct 452416. Fax

Sage Close, Hanley, Stoke on Trent ST1 3SF. Tel: 0782 208228.

Media Direct started off as a small family business operating from one of the partners homes. our reputation, as a company that supplies quality product and excellent service, we have grown to be amongst one of the leading mail order suppliers of computer accessories and consumables During the time we have been trading our product range has significantly increased to meet the needs of our customers. We pride ourselves in supplying a quality service and like to think that we see company who'm always puts the customer first.

Stand 123

Nadisystems

Fairfoot Road, London E3 4EJ. Tel: 071 537 4702

At NADISYSTEMS we specialise in computer supplies i.e. diskettes, listing papers, labels, storage toxes, ribbons etc. We also sell computer systems like Amiga Atari, Amstrad, Olivetti, Opus and a de range of printers and other peripherals. More details on the stand.

Stand 124

Miles Better Software

119-221 Cannock Road, Cannock, Staffs WS11 2DD, Tel: 0543 466580.

Stand 125

Start Computer Systems

Barbican House, Bonnersfield, Sunderland SR6 OA. Tel: 091 564 1400. Fax: 091

Stand 127

Connect International

). Fax: 0386 Talls Lane, Fenstanton Huntingdon, Cambridge, PE18 9JJ. Tel: 0844 47831.

the year 1989 Stand 129

of computers wTS Electronics stad mail order ingham. They re available for est assistance. wTS Specialist in memories are memory linguage with the "Cr tudio Master House, Chaul End Lane, Luton, Beds LU4 8EZ. Tel: 0582 491949.

INTS Specialist in memories and maintenance will be selling their much renowned A500 1/2 Meg memory Upgrade with the 'Chip Memory' option, coupled with the long awaited A500 High Quality Eternal Drive. Products will be available singularly or as super value discounted Christmas Bumper Pack. All products will be sold at unbelievable show prices. In addition, other exciting products will to be available on our stand, along with repair and technical advice from our second to none imputer engineering staff who will be at your disposal to help with any technical problems you Q. Tel: 081 hay have, or faulty machines in need of attention. All in all, if you want to leave the show with a nling face, healthy computer and wealthy wallet, be sure to visit WTS on stand number 129.

Stand 130

Premier Mail Order

6 Buckwins Square, Burnt Mills, Basildon, Essex SS13 1BJ. Tel: 0268 590766. Fax: 0268 590076

Premier Mail Order is one of the oldest established Software mail order companies and has been providing a fast reliable service to many thousands of satisfied customers. We will be displaying a wide range of Amiga software and peripherals at very competitive prices along with some amazing bargains for those CBM 64 owners amongst you, on our stand. Hopefully, delays permitting we should have some of the major christmas releases available including; POWERMONGER, ROBOCOP2, TOTAL RECALL, GOLDEN AXE, OFF ROAD RACING and maybe even those elusive TURTLES. Please come and visit our stand and be greeted with a good buy.

Stand 131

Alf Payne

23 Victoria Road, Dagenham, Essex RM10 7XL. Tel: 081 595 4904/5153.

For Christmas bargains great and small, Come to us we've got them all. "Well probably". Amiga games, budget and full price, joystick, disc drives, half Meg upgrades etc.

Stand 132

Senlac Software

4 Oaklea Close, Old Roar Road, St Leonards on Sea, East Sussex TN37 7HB. Tel: 0424 753070. Fax: 0424 755093.

Senlac for all your Public Domain software. We carry a comprehensive range of PD and Shareware programs, concentrating now solely for the Amiga. Come to our stand and see the latest animation from Doctor Gandale 'upgrade' 5 megs worth of Turbosilver animation.

Stand 133

Track Computer Systems

Blacksmiths Yard, Sadler Gate, Derby DE1 3PD. Tel: 0332 41817. Fax: 0332 44001 Visit Stand 133 for the future of software retailing. Track will have over 500 games titles on compact disk ready to download for your Commodore 64 or Amiga. There will also be amazing superbase deals. Don't forget the highly acclaimed track public domai software sets at an incredible £4.95 for 5 disks. Also available many items of serious software at serious discounts. Check our advert in Amiga Computing. Spot prizes may be awarded for anybody spotting any Track team member not on the stand. Check Dis Out.

Stand 134

European Peripherals

36 Cranford Gardens, Compton Acres West Bridgeford, Nottingham NG2 7SE. Tel: 0602 841640.

Stand 135

Care Electronics

800 St Albans Road, Garston, Herts WDZ 6N. Tel: 0923 672102.

Care Electronics will be launching their amazing Flexi-Dump, Screen-Dump utility. Compatible with all art packages (including Spectrum 512).

Stand 137

Siren Software

84-86 Prices Street, Manchester M1 6NG. Tel: 061 228 1831.

Siren Software will be showing the remarkable Soundblaster, a stereo amplifier that comes complete with speakers, power supply and a FREE set of stereo headphones. We will also be selling and demonstrating X-Copy Professional, the ultimate disc back-up system. Besides copying floppy discs, X-Copy Professional also has hard disc backup and a superb file copier. Will also be supplying disc drives, discs and PD software

Stand 138

Complement

52/53 Margaret Street, London, W1N 7FF. Tel:071 436 3436.

Stand 143

Turbo Software

Unit 6/7 Acacia Close, Cherry Court Way Industrial estate, Stenbridge Road, Leighton Buzard LU7 8QE. Tel: 0525 852277. Fax: 0525 852278.

Stand 146

D K Discs

8 Chelsea Road, Lower Weston, Bath HA1 3DU. Tel: 0225 310463. fax: 0225

Stand 147

Eclipse



Seminar **Timetable**

FRIDAY

11.15am-12.15pm	COMMODORE
2pm-3pm	PSYGNOSIS
3.30pm-4.30pm	AMOS/FUN SCHOOL 3

SATURDAY

10.15am-11am	AMOS/FUN SCHOOL 3
11.15am-12.15pm	COMMODORE
2pm-3pm	ICPUG

SUNDAY

10.30am-11.30am	AMOS/FUN SCHOOL 3
12 noon-1pm	ELECTRONICS ARTS
1.30pm-2.30pm	ICPUG

The provisional Seminar timetable was correct at the time of going to press. But a number of other presentations are being arranged to take place during the three days of the Show.

PSYGNOSIS

Psygnosis presents the future of games entertainment – the next generation.

David Chamberlain, of Soft Stuff Software, will be presenting hissuccessful range of "Let's Spell" software packages, one of which is featured in Commodore's new "Class of the 90's – First Steps" pack. SoftStuff Software continues to develop education software in conjunction with fully qualified primary school teaching staff, with the aim of making learning fun for young children.

At the Independent Commodore Products Users Group's question and answer seminars you will be able to fire your questions at a team of experts. A team will be drawn each day from the following: Tim Arnor (Precision Software), John Bickerstaff (chairman ICPUG), Harry Broomhall (programmer), Jack Cohen (8 bit specialist), John Collins (programmer), Brian Grainger (languages expert), Joe Griffin (vice chairman ICPUG), Nigel Haydon (technical advisor), Will Light (computer lecturer), Peter Miles (Amiga librarian). Peter Miles (Amiga librarian), Dave Parkinson (Ariadne Interactive), Peter Richardson (regional organiser - north), Kelly Sumner (Commodore sales director), Mark Tilley (Arnor), Barry

Thurston (Commodore developer support), Gary Van Hoel (programmer), Chris Wright (Bytes and Pieces).

AMOS/FUN SCHOOL 3

Unleash your imagination with AMOS and experience its speed and power as the Mandarin technical staff put AMOS through its paces. This market leading package has sold more than 25,000 copies to date and you'll discover how easy it is to

25,000 copies to date and you'll discover how easy it is to create your own exciting software.

AMOS 3D will also be on show: Colourful 3D objects can be animated in real-time to music - and all in AMOS Basic!

For those of you with children, Database Educational Software will be demonstrating its range of Fun School 3 packages – for under 5s, 5 to 7 and Over 7s - the follow-up to the 160,000 best selling Fun School 2. The talk will show how easy learning can be with this fun and addictive software.

ELECTRONIC ARTS

Electronic Arts will be presenting some of their newest titles for the Christmas season. Featuring will be their new release, Powermonge. This is from the designers of the mega-hit

Come by and see why this masterpiece program has been getting the highest reviews in almost all the computer magazines. As Zero magazine put it, "It's ruddy brilliant."



71 St. John's Road, Tunbridge Well, Kent TN4 9TT. Tel: Tunbridge Wells (0892) 510845. Fax: (0892) 511772

Diamond Computers

** Call your local branch now! **
Southampton (0703) 232777 Poole (0202) 716226 Midlands (0926) 312155
London 081-597 8851 Bristol (0272) 693545 Southern Ireland 061-376744
Manchester 061-257 3999 Export Hotline: 0272 693545



Diamond's Screen Gems! AMIGA 500 computer with all the following!

Shadow Of The Beast II, Days Of Thunder, Back To
The Future II, Night Breed, Deluxe Paint II,
Datastorm, Dungeon Quest, E-Motion, Grand Monster
Slam, Kid Gloves, Chessplayer, RVF Honda,
Shufflepuck Cafe, Microprose Soccer,
Rick Dangerous + 100 PD Programs & a Joystick!
Special bonus: Two mystery games!

Il for £399 including VAT

Diamond's Flight Of Fantasy! AMIGA 500 computer with all the

following!

F29 Retaliator, Rainbow Islands,
Escape From The Planet Of The Robot Monsters,
Deluxe Paint II, Datastorm, Dungeon Quest, E-Motion,
Grand Monster Slam, Kid Gloves,
Chessplayer, RVF Honda, Shufflepuck Cafe,
Microprose Soccer, Rick Dangerous + 100 PD
Programs & a Joystick!
Special bonus: Two mystery games!

All for £399 in

including VAT





Diamond's Flight Of Fantasy 2!

AMIGA 500 computer with all the following!

F29 Retaliator, Rainbow Islands,
Escape From The Planet Of The Robot Monsters,
Deluxe Paint II, Blood Money, Menace, Ballistix,
Total Eclipse, Dark Side, Clown-o-mania, Table
Tennis, Saint & Greavsie, BAAL, Paperboy,
Netherworld + 100 PD Programs & a Joystick!

All for £399

including VAT

Commodore A590
20Mb Hard disk with 2Mb memory on board for the AMIGA 500

*
New give away price

\$299!

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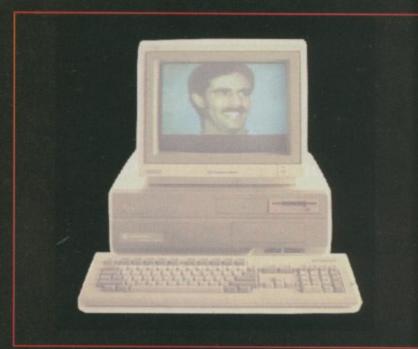
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The ever pure, ever vigilant, ever frugal, ever Scottish Stewart C Russell takes his monthly gander at what astounding software can be had for nowt.

ABridge

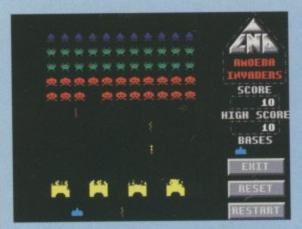
DON'T you just love Standards? Every other industry has standards, but only the computer industry has Standards.

Let me explain. A standard part will fit where it's meant to fit, and work as it's meant to work. Software, however, may say that it will accept a certain Standard file format, but the truth is, the Standard format is open to different interpretations, creating vast incompatibilities which, in theory at least, should not exist.

As one animation package seldom gives the desired results, it's often necessary to use several of them, swapping files between them. If you want to use two packages that speak slightly different dialects of ANIM, you have what is technically known as a Problem.

To every Problem, there's a Solution – and that's not a solution of alcohol in water. No, the solution is Animation Bridge (Fish disk 359), which will interchange files between most animation packages. Oh, alright, between The Director, Sculpt-Animate 4D, Photon Paint 2, Animagic, Videoscape, Animation Station, DPaint III, Animation: Editor 1.11 and Cel Animator. Enough to be going on with, anyway. Even if you

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Game of the month Amoeba

SOMETIMES, when things aren't going quite right in my world, something reliable and simple, and above all, ridiculously violent, is required to get things right again. And what could be simpler than Space invaders?

No-one's quite sure why Space Invaders is so much fun. Perhaps it panders to the destructive side of human nature. Perhaps it is fuel for natural xenophobia. Whatever it is, it's a wonderful way of

hammering the crap out of moving targets at no personal risk whatsoever.

Amoeba Invaders is an old game, conceived a considerable number of moons ago by The LateNight Developments Corporation. Nothing has been added to the stark playability of the original Taito machine, save for the addition of colour. After all, the first invaders boxes were strictly monochrome, so it shows how far we've come in the last twelve years, as long as we discount machines like the NeXT.

For those of you who remember colour Space Invaders, that was achieved by the technological miracle of strips of coloured plastic stuck to the monitor. The Invaders at the bottom started out red, but the other ones went that way as soon as they hit the red band. And we go to all the bother of copperlists to achieve the same. Sigh. Call that technological devopment?

To be really pedantic, Amoeba Invaders adds the heady delights of a score that doesn't "clock" at 10000 points. Talk about the march of progress.

The original source of Amoeba Invaders is Fish Disk 120, but it's so old that nearly every PD collection has it tucked away somewhere. Check the bulletin boards too – it's pretty small, so it shouldn't break the phone bill if you download it.

only use DPaint III, Animation Bridge has something to offer.

DPaint III has a habit of filling animation files with excess (harmless) garbage like the remains of old stencils and brushes. Animation Bridge will strip this out, leaving the file up to 25% shorter.

In addition to its easy to use Intuition interface, there's also an ARexx port which may be of use to folk who routinely process animations, and hate overworking the mouse.

Better still, if you send \$20 to Ron Tarrant and Mythra-mations Animation and Software, you get an Animation Bridge which doesn't

keep interrupting you and asking for money.

Some day, all animation packages will completely understand one another. Until that day arrives (and the sun sets in the east) we'll have to use Animation Bridge.

Mach II

I know a lot of people who like to have a clock on the Workbench screen. I never use a clock myself, preferring Russell's Three Rules for Healthy Living. These are: Eat if hungry, Drink Coffee if tired, and

Sleep if nose touching keyboard.

Summarising all the PD clocks would be a huge and futile task. Imagine – "This one tells the time. So does this one. This one likewise". So here is something not entirely different, but nearly.

There are many Freely-Distributable programs which are best described as Mouse-Accelerating, Screen-Shuffling, Window-To-Front, Auto-CLI, Mouse-Blanking, Screen-Blanking, Auto-Window-Activating, Configuration-Saveable Clock Utilities (With Added Hotkeys), or MASSWTFACLIMBSBAWACSCU(WAH) for short. Some are big (like Machli,

which takes up 44k of disk space) and some are small (QMouse, just over 4k). Most of them are quite remarkably clever.

Machll (Fish Disk 254, unspecified Shareware amount) is quite the feature packed MASSWTFACLIMBSBAWACSCU(WAH) available. In its standard configuration, it displays the time and free memory, alternating with the date, in a window in the screen titlebar. This window floats to the top of the screen, and will even float to the front screen. This is cheating Intuition a little, and it can be disabled if problems occur.

One of the most thoughtful features included in Machll is its ability to remember qualifier keys (Alt, Shift, Ctrl and the Amiga keys). This means that instead of having to press keys all together (such as Ctrl-C) you can press them individually for the same effect (Ctrl, then C). This could be useful for those with impaired hand movement, or indeed anyone who's ever experienced joys such as Ctrl-Right-Amiga-F5.

Configuring Machll is pretty easy. Hit the mouse Menu button in Machli's clock window, and the auxiliary SetMach program is called up. This presents you with a mass (nay, a plethora, even) of gadgets, each controlling a different operational nuance. You'll need to dive into the documentation to work out what everything means, so maybe configuration isn't so easy after all.

If you don't like wasting space, try QMouse. It has all the really useful features of Machll, except for the remember qualifier keys routine. It also has the smallest clock around - it will fit between the "Workbench release" and the free memory display. It's also under 4000 bytes long

QMouse can be configured using a long set of CLI arguments. or by creating a config file with a text editor. This may seem a little unfriendly, but if you follow the documentation it isn't a problem.

Version 1.6 of QMouse is on Fish Disk 262, and there's a \$10 Shareware fee. It's the sort of program that a lot of BBS's have,





Mandelvroom

HEY, aren't those Mandelbrot set thingies real purty? No? Phil E. Stein's, the lot of you. I happen to like them, but then I've always felt comfortable with complex numbers, matrix maths and zerosurvivability situations.

The trouble with most Mandelbrot set generators is that they expect you to be able to key in huge quad-precision coordinates, and then they laugh at you for ten hours while they render a screen of total blackness. Would it not be PDH (Pretty Damn Hip, if you hadn't twigged) to just point and click on your very own A To Z of the z -> (z*z)+C?

Such is MandelVroom 2 from Kevin Clague. You never, ever need get your hands dirty with vast floating point constants - nor do you ever need to spend hours waiting to see if you've turned up an interesting bit of graphics, or a window full of black.

By creating a new window, and then zooming into an existing window on the set, you get a rough idea of what your picture should look like instantly, since at first MandelVroom will merely magnify pixels from the old window. Once you start rendering, the picture will gain detail.

Nor do you need to hang around while the iterations are strutting their stuff. The program sports optimised maths routines for extra speed, but will render any number of Mandelbrot and Julia sets simultaneously.

You don't get summat for nowt, so multitasking slows everything down a little.

Extensive online help is available on just about every feature, so you won't have to read the huge doc file. Many of the screen manipulation tools work just like DPaint, so most people will know what to do with the Palette and Cycling tools.

Mandelvroom supports every screen mode except HAM, and will auto-detect faster processors and extra number crunching chips. The only thing that you really must have is 1 meg of RAM to use all the functions, but it will run (sort of) on a stock A500.

Intuition is used really well - lots of programmers could learn from this example. In fact, they can -Fish Disk 214 contains all the C source, which is reasonably well commented.

MandelVroom 2.0 is certainly the friendliest introduction to fractal fun, and lives, along with plenty of pregenerated images, on Fish Disk 215.

and it cost me just over 10p in phone charges to download the Omouse archive over a noisy, long distance phone line. Few PD libraries can offer that kind of value for money.

HMM. Yet another "Replace volume X in any drive" System Requester. I wonder who thought up that particular gem of popular prose ? It may do the job, but it's dull, so let's change it.

Huh? Change System Requester

erming and humming, would conclude that, short of reburning the ROM, this kind of task is far more difficult than it is urgent, and they go back to their own interactive multihypermedia devices.

But wait. A little System Requester we've all met is "Software error task held". This has been known to reduce grown writers to visible gibbering, and is unpleasant in extremis. We might as well put in some code to catch the Software error, and render it less harmful.

Carolyn Scheppner's SRT allows both of these things. By creating a text file of alternate Requester texts, Text? Most people, after much SRT will replace the boring CBM

ones with your own wacky creations. The supplied example file is a little Middle-Earthish, with Track Trolls, Disks of the Clan of DOS and captive Printer Dwarves.

You can change any text to anything you want. It's best to stick to something roughly sensible, since "Error validating disk" maybe be dull, but it has loads more relevance than "Goo boogle acka

If you replace the dreaded "Software error" text with "DEBUG", you get a full register dump the next time an error would have occurred. You also get the chance to suspend the errant task, or to

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task can do no further damage. except that crashed CLI commands won't allow the CLI to

Except for the Guru Protection, SRT (TBAG 28) is little more than a bit of fun. It allows the machine to be customised the way you like it, and may also make your days less

Memguard

EVER had a totally reliable program crash on you for no readily apparent reason? It's kind of worrving. It will often happen if you try some new and possibly dodgy software, then take a trusted workhorse out for a canter. Whap Bang, a face full of red hex with a flashing border.

Quite often, the cause of this is Low Memory Corruption. The first few hundred bytes of memory contain some extremely important information which the system uses for finding libraries and managing interrupts. If a program sloppily patches some system information, then forgets to set them right, the system will crash quicker than the Stock Market.

well respected programmer thought about this, and wrote a lengthy C program to scan this area for changes. Unfortunately, it hogged 50% of the processor time. What was called for was an extremely tight piece of assembly language.

From the K-Seka assembler of Ralf Thanner comes Memauard Illa. which installs a small interrupt routine to check the low memory for change. If a value is altered, an Alert (looks like a Guru, but is OK really) gives you the choice to restore or change the memory location's contents.

What's really incredible about Memguard is that it checks memory every video frame (50 times a second) yet uses only 2% of the processor's power. Since it's a very low level interrupt, using Forbid() to halt multitasking won't stop Memguard.

So now if you're programming, or just using software you're unhappy about, Memguard will keep you safe. Of course, if a really brutal program stomps on Memguard you'll be in for a crash. But then, if any program stomps another you're asking for a visit from the Red Flasher anyway.

Get the newest version of Memguard you can - version Illa is

reset the machine. A suspended An accident with a monitor - but MemGuard stops it



on Fish Disk 354. Older versions being a devious EC plot to stockpile aren't as clever or as reliable.

Mandel Mountains

ALMOND BREAD has a lot to answer for, not least for its nutritional value. You see, in Germany, "Mandelbrot" is that very confection. Imagine "Almond Bread" - almost as bad as certainly used his loaf to develop his fractal theories.

MandelMountains, rather than

all those hard-shelled nuts, is a Mandelbrot Set generator. Oh puhlease, sez you, not another one. Well, yes, it is, actually, but this one's a bit different.

The standard view of the Mandelbrot set looks like the chromatograph of a squashed bug, given a little imagination black in the middle, with a set of fringes which darken as they go out going through life being called from the centre. MandelMountains uses a different approach - a 3D "Russell". Well, Professor Mandelbrot black plateau with silvery mountainsides sloping down from it. It's prettier to look at than describe.

This rendering technique (the

Continuous Potential Method) is very processor-intensive. Not merely do you have to do all the usual convergence iterations, you also have to do a bit of 3D trigonometry to find out where the point should live. And as you have to do this for every pixel, one can settle down for a nice kip.

The world always looks brighter after a kip, and so the stupendous MandelMountains screens are incredible - the CPM makes Mandelbrot Sets and Julia Sets like a zany form of landscape.

Screens are saved as IFF, but with an additional chunk to hold data for MandelMountains. DPaint will ignore this extra information, but will not save it back out - so doctored MandelMountains pictures won't

MandelMountains 2.0 is well worth its \$10 registration fee - if you upgrade to a faster machine, MM will use the maths coprocessor. If vou like Mandelbrot sets, have a hunt around Fish Disk 354 - you'll iterate until the cows come home.



Roadroute

IT IS nice to get from A to B, avoiding the jampacked dual carriage way at C, the sheep track at D, and the section of motorway at E which has been coned off since Hadrian's lads built it. So how can you tell?

Usually, looking at a good roadmap will help a bit - save for the roadcones, that is. The old method of route planning involved a little rolling wheel thing which could be read off in miles, and the ability to follow the wiggliest road with absolute accuracy.

For some years now PC and ST owners have had AutoRoute, a delightful program which will tell the the quickest route to a reputable Amiga dealer. AutoRoute's authors considered piracy too rife in the Amiga scene to market AutoRoute Amiga, so the pirates' loss is our loss too. "Kill a pirate today" is the moral of the story.

Jim Butterfield, that guru of all things Commodore, had a need to work out his A to B without recourse to an A to Z. He produced an AmigaBASIC program to do the job, added some data from some motoring organisations, and created RoadRoute the First.

Like all AmigaBASIC creations, the first RoadRoute ran like a sloth in snooze modé. After a rewrite in C, RoadRoute is much quicker - but hardly all singing. all dancing. More like mostly barking hoarsely and gallumphing about in a vaguely syncopated manner, but it does work.

The other problem is, currently all the maps refer to the USA and to Canada. All we need now is for some patient, kind soul to type in distances between places in the UK and we're laughing. Don't wait for me to do this, as I have all the attention span of a caffeine-soaked shrew, and a hideous dislike for conic projections.

Roadroute doesn't draw maps, but then neither do the incredibly useful AA Computer Routes. All you do is type a Start, an End and a Via, and Roadroute will find the best way. It can either choose the Fastest or Shortest route, and estimates the time taken according to the US 55 mph speed

RoadRoute is on Fish Disk 358, and is Freeway, erm Freeware. And don't let me stop you typing in maps for Great Britain...



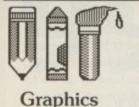
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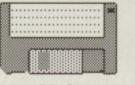
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Application

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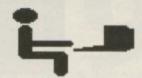
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AMICUS 17 - Communications: COMM v1.33, Aterm V7.2, VT-100 V2.6, VTek V2.3.1, Amiga Host V0.9 for Compu-

FFISH 195 - Micro Emacs V3.10 the editor which is very comprehensive.Includes source and extensive on

line documentation. FFISH 219 - Deep Sky V5.0 is a database containing info on 10,368 non-stellar objects, 600 colour contrasting easily resolved double stars, 70 stars for setting circles and miscellaneous white dwarfs, red starsetc. The whole lot is ZOOd (archived) down to fit onto Cycle, Window and Screen the disk and will unZOO to 1.2 Mb of info. ZOO is not supplied.

PDOM Clip It! Vol1. Nearly 3Mb of clip art in standard IFF format. Subjects covered are varied but are mainly: sports, flags, animals, cartoons, humorous, Christmas, Jewish, borders, Halloween, Valentines, horses, eyes, alphabets, hands, 1930's trade marks, zodiac, cars and many more. All compatible with DPaint II. All in black and white. 5 disks full.



Miscellaneous



PDOM 211 - NorthC the latest all features excellent C compiler. Suitable for beginners and the knowledgable alike. Fully comprehensive. FFISH 337 - CManual V1.0 is a complete C manual for the Amiga which describes how to open and work with screens, windows, graphics, gadgets, requesters, alerts, menus, IDCMP, sprites, etc. Includes huge manual file and over 70 fully executable examples with source code. When unpacked fills up 3 disks. FFISH 314 - A68k v2.61 the 68000 macro assembler. Excellent. FFISH 339 - PCQ

redistributable, self compiling, Pascal compiler. The only major feature of Pascal that is not implemented is sets. FFISH 349 - MED V2.0 is a music editor much like SoundTracker with MIDI sequencing. AMP11 - 5 disks full of Sonix files with the PD Sonix player. £12.50! AMP23 - 5 disks full of Soundtracker files includes Sound Tracker versions 1,2,3 and 4. £12.50!

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PDOM 285 - Game Music Creator, Supports MIDI, can handle all types of samples -IFF with loops, Raw etc., both contignous and pattern recording, Note half stepup/down function, 64 patterns in memory, can load both Soundtracker & SoundFX_songs (converted with GMC conv.), Replay routine brutally much faster than Soundtrackers, Includes Pattern break, Position jump etc etc...



PDOM 212 - Red Secti CEBIT '90 demo. Another excellent demo from RSI!

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from Singes Castle another amazing animation demo of the interactive game. Excellen follow up to Space Acel PDOM 1 - The Walker Demo I is a mega animation demo that requires 1Mb RAM. PDOM 2 - The Walker

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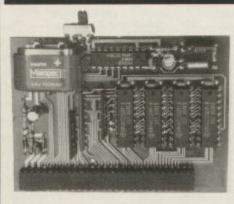
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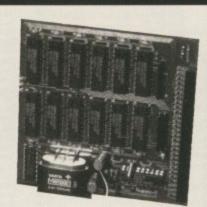
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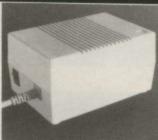
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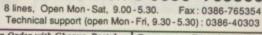
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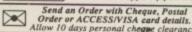
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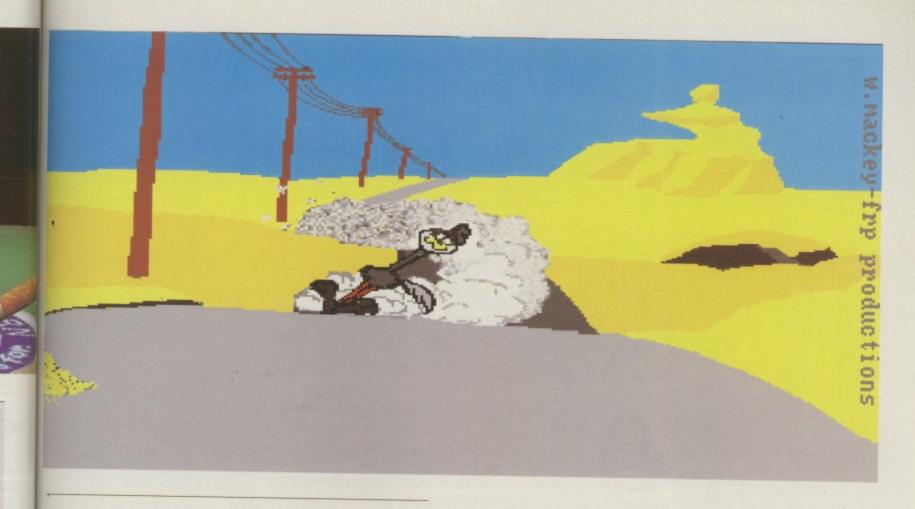








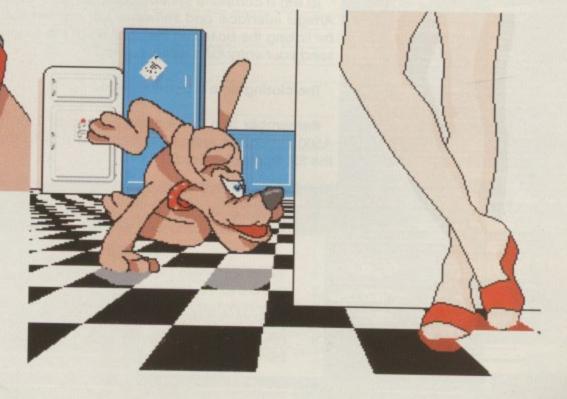




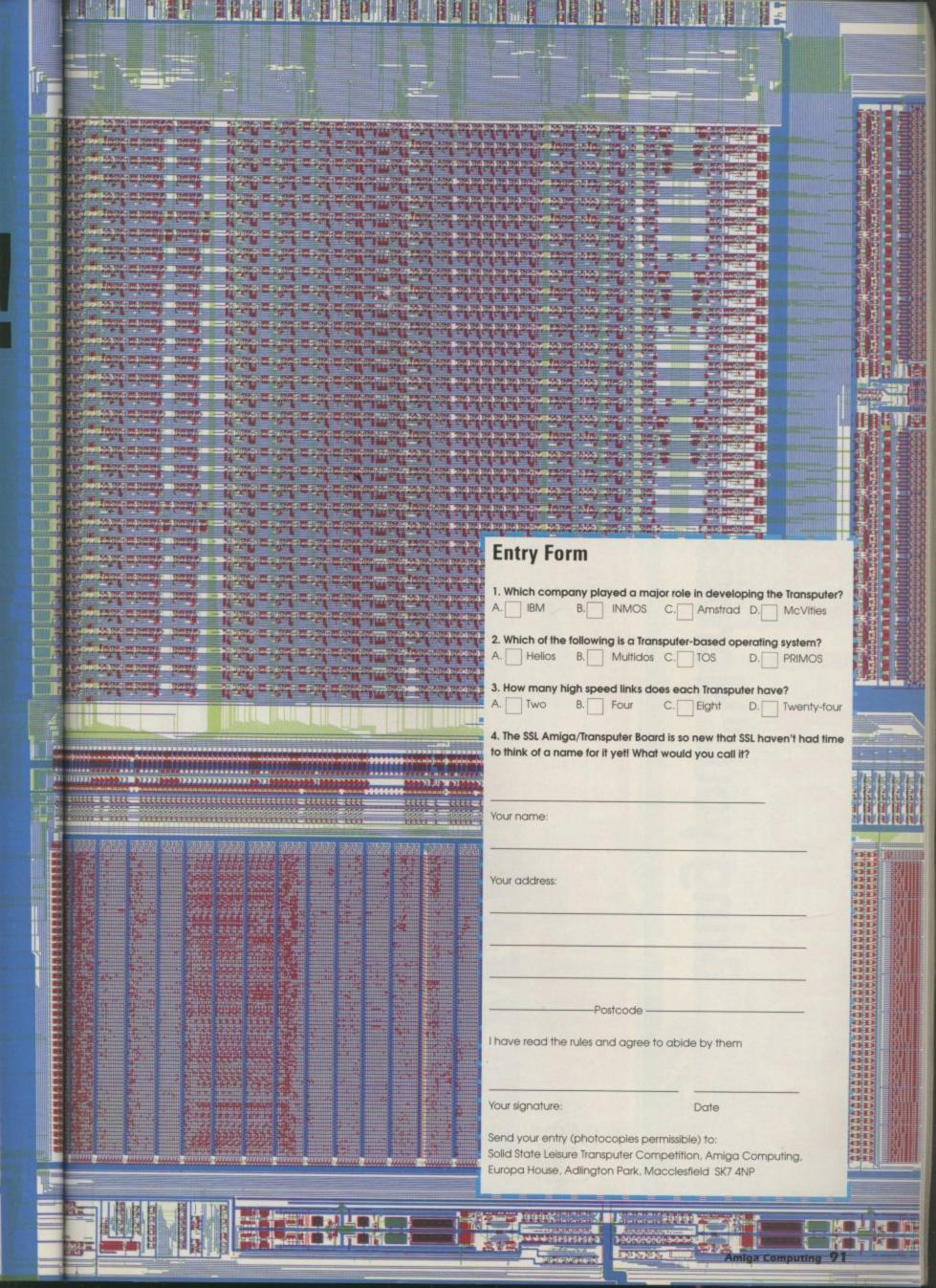


Here are some of the winners from the recent annual animation competition held by Amiga Centre Scotland.

The competition once again drew a huge number of very professional looking efforts - so professional that a large percentage were actually submitted already edited onto video tape.















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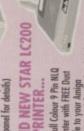
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Feature

t was in 1987 that I first wondered what possible use you could have for an advanced authoring system for interactive video. Microdeal had driven up from Cornwall to show me an ST controlling a videodisc player, in which sat the original arcade videodisc of Dragons Lair.

"Oh yes", exuded the spokesman, (there will be cheap videodisc players on the market by Christmas, and you can buy the controlling software and Dragons Lair disc from us for only £100".

Three years later and videodisc players have flopped. In this country. Apparently there are sufficient machines in the US to make it worth Michtron's while to release Viva there. In those three years the scope of Viva has changed quite dramatically, yet at heart it remains a videodisc player-based system.

Applications range from training, sales promotion, simulations and games, and as a general information distribution system. It contains functions for controlling such external hardware as videodisc players and video recorders (including genlock), as well as multi-tasking and providing links to word processors, databases, drawing packages, animation packages (or combinations like DPIII), video diaitisers and sound samplers. Of course to do that you need quite a lot of ram, and indeed, that is just what Viva expects you to have.

To use the package properly you are advised to have a bare minimum of 1.5 Mb, 2 Mb to do anything useful, and 3 Mb to do anything special. A hard drive also comes in handy since Viva stories with extensive use of sound and graphics gobble up disk space.

That's just to start developing. To generate your graphics and sound you're going to some of that hardware and software I listed earlier. Be aware that though you can produce standalone applications, the user will invariably need at least 1 Mb of ram and two disc drives to be able to use it.

The basic concept of Viva is that of taking graphic screens and sound effects, stringing them together, and by use of text and control commands offering the user a series o options, finally presenting information based on the user's reactions.

If you have a videodisc player connected then obviously you have access to large amounts of graphics and sound data. You could, for example, take that

Hype and hyperbolics

Duncan Evans tells us an audio virtual imagery object (story), about Viva



The effects panel with sources

Dragons Lair disc and demand totally different solutions to the problems within the limitations of the graphics at your disposal.

The trouble is that in the UK there aren't an awful lot of videodiscs for you to use. The manual does help out a little here as it lists both manufacturers of videodisc players and suppliers of videodiscs. In America.

Spinning a yarn

Actually programming a simple Viva story couldn't be easier, as all the commands come in the form of icons. It is simply a matter of stringing them together on the main screen, complete with branches and loops where necessary, to organise an interactive story and its special effects.

Unfortunately the function of only a few of the rather garish icons is intuitive, so careful study of the manual is necessary. To make assimilation easier the icon commands are organised into function groups thus: Interactive (hot spots,

questions, timers), video (laserdisc commands which are very easy to use), Events (branching and labelling), Audio (sampled sound and music commands), Graphical (covering .IFF images and the various special effects), Text, (display, printing and sending text to the Amigas speech synthesiser), Mathematics (operations on variables – useful especially for simulations and games), and System (access to computer system functions and other Viva stories).

While organising a short story is easy enough, for anything interactive or slightly more complex a great deal more consideration needs to be shown.

Most programmers I know don't use flow charts, just lots of paper. For a moderate size Viva production I'm afraid that flow-charting of some sort needs to be done before starting. While you can delete and insert icons at will, if you don't have a clear idea of what you are doing when you

start, the story may work but it will do so in a haphazard fashion.

A Viva work screen has pull down menus along the top; an info bar which constantly tells you how much memory you have left and the number of icons used, a storyboard on which the icons are arranged, and at the bottom a list of all the icons in whichever function group happens to be open. Going back up to the pull down menus, these cover mundane functions such as disc access, running the program, executing a wordprocessor, animation package, art package, sound sampler, video digitiser and database. Now you see one of the reasons why you need so much memory.

Viva offers none of these extras, you need to create everything used in Viva from some other source. There is the facility to create some text from within Viva though, but this is only a couple of words that can be overlaid on a graphics screen. For anything more you do need that wordprocessor. Considering how easy it would have been to include a rudimentary text processor and art package this is a little niggardly.

Also on this top bar are the defaults which cover where the program expects to see its data coming from. These are set to DFO: initially, and can cause trouble when you load in a storyboard from say, DF1:. It loads in all right, but when you try to run the story the program reports a File not found error, simply because it is looking at the wrong drive for its data.

Initially an icon representing each of the function groups is presented along the bottom of the screen, being replaced by the actual commands when you click on one. The most commonly used function group will be Graphics, so lets have a look at what you can do.

LOADPIC and SHOWPIC are fairly obvious in their functions, but SHOWPIC can also be used to simply clear the screen by assigning the screen colour zero as an argument. The special effects that can be performed on your newly-loaded picture include a checkerboard effect (spiralling in or out), pushing the old picture off with a new one, fading to black, revealing a picture as if it were painted on vertical blinds, slowly rotating until the full picture was shown. that old standby the dissolve, and a four directional wipe which rolls a new picture over the existing one.

Feature

An interesting feature is that if you have genlock and superimpose a computer picture completely over the top of a video picture, then using a fade, dissolve, checkerboard or push command with colour zero as an argument would reveal the underlying video in a fairly impressive manner.

Error in the system

One dreadful feature of Viva are the error messages. Unfortunately an otherwise helpful manual has neglected to list and explain them. Thus: Screen size not equal to page size, which is what happens when you try to load a 320 x 256 res picture, could be taken to mean a variety of things: The screen you are loading, the screen size of the Viva environment, or the screen size of a screen you defined with NEWSCREEN at the start of your Viva story?

This tends to happen a lot with other aspects of Viva, making it easy to program, but hellishly difficult to sort out just why things aren't happening in the way you think they should. Going back to the NEWSCREEN command, the manual states that this is primarily used so that the SPEECH command can be used effectively. Setting up a screen with less than eight colours is required for decent speech.

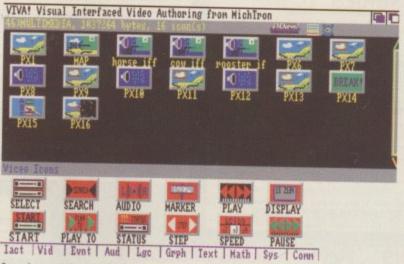
The odd thing is that the standard Viva screen is of course 320 x 200 (as it is American). The manual recommends this and 640 x 200 or 400 as your standard resolutions. Unfortunately the NEWSCREEN command only lets you set up a screen in variations of 320 and 640 horizontally by 256 and 512 vertically, or the English standards.

Anyway, as soon as you have decided to load and play around with a picture, the appropriate icons appear on the main storyboard. Clicking on the icon reveals a further level of interaction. You can move, edit, delete, insert, copy or test the icon.

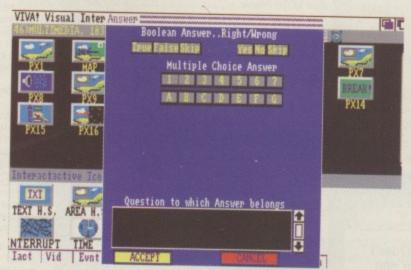
On the special effects icons, there is a speed of completion setting which you can experiment with by repeated testings, until it meets your requirements.

In the spirit of real programming, the Events functions allow you to use labels in order to implement If-Else, Do-Until, While, Goto, Masterloop, Return, and Break commands. The philosophy here being that it may be a collection of pretty icons, but it should still be structured properly.

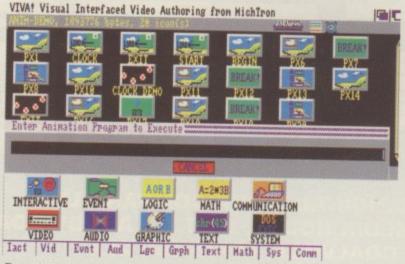




Sounds are well catered for



A spot of interaction is called for



The main panel allowing entry to the subsystems

The other function groups offer scrolling text, a number of different fonts, mathematics so that interactive applications can be developed – logical operators, variables, constants, Inc, Dec and the usual maths operators – the playing of sampled sounds, various interrupts, hot spots, keyboard scans and timers, configuration of the serial port, as well as reading and writing to it and, of course, control of a videodisc player. The commands for this are as easy as using a VCR at home.

A typical Viva application rather resembles a Hypercard application on the Mac, as a series of connected screens with audio effects containing information are presented in accordance to the user's responses and interaction.

Simple simulations and educational material can be produced with a lot of effort. At this point you'll be looking to the printer option which will list out the functions of the icons and what they are operating on.

I have to say that if all you are going to do is produce material which strings together graphic screens and sounds together in this way then perhaps you'd be better off with a copy of AMOS, as it is far more powerful, but then obviously it is harder to use.

Deluxe Video is the other alternative which springs to mind if you take up the option of using genlock to mix computer and video signals, though you can produce a more interactive production with Viva than you can with Deluxe Video. Where Viva really shines is when you get hold of a videodisc player and videodiscs, mix in some computer graphics, and really dazzle the audience.

Viva really works on three levels, and only on the last one does it excel. On the other two there are alternatives on the market which are both harder and easier to use.

Whether the program's memory and hardware requirements are worth meeting just so you can use the package is dependant on the application you have in mind. Though it can certainly produce good results, sometimes very quickly and easily, Viva can also be very fiddly, at times unhelpful, and simply not have the scope to do what you want it to do.

Viva Microdeal 0726 68020 \$99.95

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FlashDisk!

FLASHDISK! is a shareware floppy disk optimiser for all models of the Amiga computer, including the Amiga 3000. It is not a cache - it merely reorganises the information on the disk to make directories and loading more efficient.

The changes are permanent and will usually increase the loading speed of directories between three and five times, the increase depending on how badly the original disk was fragmented. In addition, loading time of large programs is often reduced. The resulting disk is still an AmigaDos disk and is 100 per cent

FlashDisk! v0.3 does not work on hard disks. It will however work with source disk and try again. any floppy trackdisk compatible basically the same restriction that defects. Diskcopy poses on a two drive copy. This will change - remember v0.3 is an alpha release.

protected disks. It will also fall if the put the program into a directory source disk is corrupt. In this case, accessible by your path and run it

CHIP HOGI: This option, when enabled, tells FlashDisk! that it may use as much memory as it wants. For speed reasons this is mostly chip memory - the more memory, the faster FlashDisk! works.

It is not advisable to use this option if you plan on using another program at the same time, it just makes things go a lot faster.

When Chip Hog! is disabled FlashDisk! will use as little memory as it can (50k to 100k). This slows FlashDiskl considerably but makes running other programs at the same time less dangerous. You may turn this option on and off at any time. For kicks, run a memory watch program and toggle this option.

Also note that in low memory conditions and when the Chip Hog! option is turned off, FlashDisk! will sometimes have to search all over the source disk for information. This can make the drive sound like it is falling apart, like Workbench does to badly fragmented disks. This is normal, there is no need to much smoother in all environments.

PROLIX: When enabled, this tells FlashDisk! to print meaningless information on the screen. Mostly it is used to verify that the program is in fact working - a

heart beat. Prolix may be turned on and off at any time. FlashDiskI works a little bit faster when this option is disabled

FORMAT: When enabled, this tells FlashDisk! to format the destination disk as it goes. You must have this option enabled if you are flashing to a new disk. It is a good idea to always have Format enabled. However, if the destination was previously formatted successfully as an AmigaDos disk with no errors, this option is optional.

The flashing process is noticeably faster when disabled. This option may also be turned on and off at any time. The author may change this because he feels it is potentially dangerous to the novice user. Should he keep this feature? Write and tell him.

VERIFY: This option, when enabled, tells FlashDisk! to verify the destination with the source. It may also be turned on and off at any time.

If a verify error occurs FlashDisk! will report the worry. When FlashDisk! is done, the final disk will work error and continue. At the end, the number of verify errors encountered will be displayed. If there were any errors, the odds are that the destination disk will

You may also notice that rename FlashDisk! to FD. device that is in the slots DFO: to FlashDisk! can be very picky about DF3:. When doing a two drive minor errors that it encounters. The flash the source and destination author says this will change. For must be of the same format - now, the disks must be without

FlashDisk! from the Workbench or the CLI. There are currently no command line options' FlashDisk! will not work on copy (there will be). So to use FlashDisk! run DiskDoctor or DiskSalv on the as you would any other program or tool. CLI users may find it easier to the source and destination disks by

Once FlashDisk! is running, select



This month's cover disk was optimised using FlashDisk!'s MegaFlash! option.

clicking on the big gadgets beneath the Source: and Destination: headers. Select the optimisation method: Directories. Loading, or MegaFlash! Select any other options: Chip Hog!, Prolix, Format, and Verify.

Once you have chosen the options that you desire, make sure the disks are in the correct drives and select GO!.

You may stop FlashDisk! at any time by pressing the STOPI gadget, hitting Ctrl-C, sending a Break to its process, selecting the close gadget of the window, or pressing the Escape key. At times, there is a brief pause before terminating, but nothing unreasonable – it depends on what FlashDisk! is doing at the time you try to stop it.

If FlashDisk! is flashing a disk, the first Cttl-C, Escape, or close window event is regarded as an abort. A second will close FlashDisk! down.

Optimisation methods

Directories: Makes the directories as fast as possible, which includes placing the *.info files in the best location for Workbench users. This option is good for both CLI and Workbench users.

Note: After optimising, leave the write protect tab off and let Workbench validate the disk. Although not necessary, Workbench works smoother if it can validate the disk.

Laading: Makes every attempt to put large files in as contiguous an order possible. It also tries to optimise directories and is a good option for big programs.

Megaflash: Does anything and everything to optimise the performance of the disk. At this time it only does a few more things than the Loading option.

Copyright

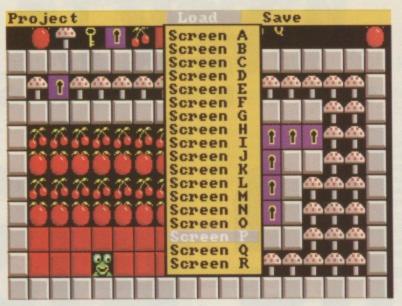
FLASHDISK! v0.3 alpha is shareware, Copyright © 1990 NiteWing!. Any donations would be more than appreciated (any amount). For various reasons the author cannot offer upgrades or any other Registered User policies. He will, however, send an availability notice to all who send a donation.

Send donations and comments to: Curtis J. Palmer, c/o NiteWing!, 840 Wallowa Drive, Walla Walla, WA 99362.

Othello1.18

AS you have already guessed, this is a version of the classic board game Othello, said to have been invented last century in England. Some absent-minded person then forgot about it until it was rediscovered in 1971 by Goro Hasegawa. It was named Othello when his father, who studied Shakespeare, noted how quickly the board can change, just as the situations in Shakespearean plays often do.

This is not a thrills-and-spills



Gribit

GRIBIT is three programs in one – a game, a sprite editor and a screen editor. The game can be played as it stands. When you feel that you want to make some alterations, the sprites can be altered with the sprite editor and the screens amended with the screen editor.

Alterations can be made permanent by saving them to disk, so make a backup copy before playing around. All the necessary files are in the Gribit drawer, so you need only drag the drawer to another disk to back it up.

An option screen is displayed after loading the program. The first option is G for Game.

Gribit is played with a joystick plugged into the hole next to the mouse port. To complete each screen you must collect all the mushrooms. Sounds easy enough, but some are locked behind doors.

To get through a door you need to collect a key. Where do you get the keys from? Well, if you remove the red squares, by running over them, objects will start to appear. Apples and cherries will increase your energy – that's the green bar at the right of the screen.

Bonus points are awarded if your energy reaches the top of the screen and you still have three lives. If you have less than three lives, an extra life is awarded instead of the bonus.

Try to avoid the purple frog as contact with him drains your energy. The purple frog can be stopped with a bubble. To blow bubbles press the fire button. To pick them up again just move over them. If the purple frog collides with a bubble he gives up a key.

If you (the green frog) collide with the purple frog a key and some energy is lost. If your energy level reaches zero, a life is lost. If anything falls on your head, a life is lost.

The P key will pause the game. To continue press the Fire button or any key. Pressing the Escape key quits the game and takes you back to the options screen.

The second option on the options screen is S, to edit the screen. Select sprites from the top row with the left mouse button,

Any of Gribit's 18 screens can be loaded, edited and saved again. Redesign the whole lot and you've got yourself a brand new game.

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then place them where you want them on the screen, again with the left mouse button. Screens can be loaded or saved from the pull-down menus. The Options entry in the left-hand menu quits the screen editor and returns you to the options screen.

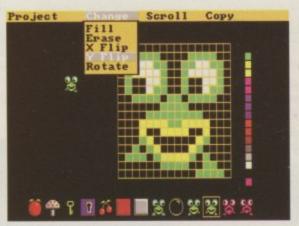
Sprites can also be edited by choosing C from the options screen. Select sprites from the bottom row with the left mouse button. The edit box will automatically update. The pull-down menus allow quick alterations: Scroll left, right, up, down, Xflip, Yflip, Rotate, Fill and Erase.

Colours can be selected by pointing and clicking. The bottom colour is the drawing colour. Save on the left-hand menu saves all the sprites. Options, as you know by now, quits the editor and returns you to the options screen.

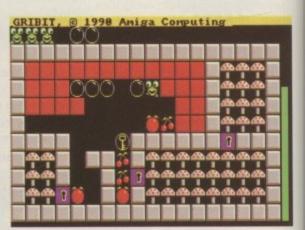
No doubt after playing Gribit, Basic programmers will be itching to know how it works. Double click on the Gribit.BAS icon to view the listing. If you want to customise the program in any way – or more likely borrow some of the routines – you'll need to decrunch the source code first. You'll find the Decrunch command in the C directory of the cover disk.

Copyright

GRIBIT was programmed in HiSoft Basic by Alan Mead and is Copyright © 1990 Amiga Computing. Gribit should *not* be included for sale in any public domain.



If you don't fancy the idea of being a frog all your life, take quick visit to the character editor and change your identity.



The easiest way to get keys is to let the purple frog chase you then hold down the fire button to lay a trail of bubbles.

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sound effects or fab graphics. start of a game, two counters of then become your colour. Stuart Baln, who programmed it, each colour are placed in the and unobtrusive as possible so move. there would be no memory or The object is to place a counter one move. it tots up to under 2,500.

played on an 8 x 8 board with counter of your colour, in any

multi-tasking problems. Crunched, of your own colour in an empty position in such a way that at least Othello is very easy to play one counter of the opposite colour because it has only one rule. It is is trapped between it and another

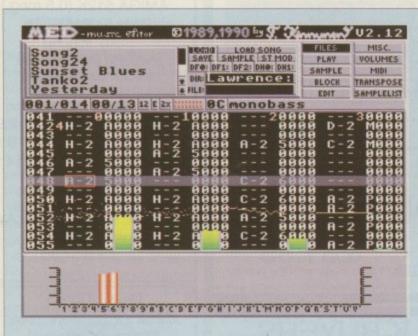
version of Othello — there are no black and white counters. At the direction. The trapped counters until the board is full, until all of one

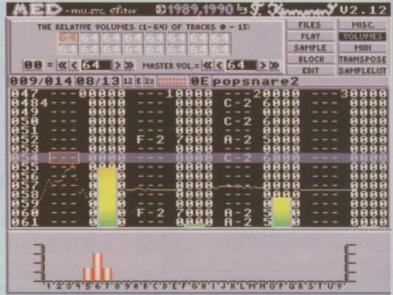
wanted this version to be as small middle of the board. Black has first directions at once, so the board play. The winner is the player with can change dramatically in only the most counters - unless it is a

> In each turn the player must opponent's counters. If this cannot be done, the turn is lost.

player's counters have been Note that you can flip in several flipped, or until neither player can draw, of course.

This version is very easy to play. always flip at least one of the After clicking on the icon, the board will appear in its starting position. The window has normal The game continues in this way gadgets to allow closure, dragging





MED v2.13

MED is a music editor. If you've ever used Soundtracker, you'll know what one of those is and you'll feel right at home with MED. If and the load/save/drive gadgets in is called a Soundtracker means nothing more to you than a word you keep seeing in Amiga magazines, then you're going to have to get your thinking cap on and prepare your mind for a new concept.

The odds are you've already loaded MED and, provided you didn't get in an awful mess because you didn't know what you were doing, you've probably had a good look around already.

Don't let its apparent complexity put you off. Even if you've never played a musical instrument in your life I can guarantee that you'll be able to create some stunning tunes in no time at all using MED.

Let's start by loading a demo tune.

The first thing MED does on running is ask you for a drive name. Click on the button which relates to the drive you have the cover disk in; probably DFO:.

Next, using the file requester arrows, scroll down the CD014 list and click once on the MED213 directory entry (directories are in lightgrey, files are in black). After that directory has loaded, click once on the DEMOS directory.

There are two tunes in DEMOS, the one we're interested in is Song24 so click once on played. This list, by the way, is known as the that and then click once on the Load Song playing sequence list (PSL). button to the right of the file requester.

After a short wait the tune will have loaded. You'll see all sorts of things happening on the screen. Don't worry about them, it's just MED

letting you know it's working.

Before we go any further let's decide on what each part of the MED display is called so we can avoid confusion later.

The display at top left with the file requester control panel. There are 10 of these control panels related to the 10 control buttons at top right. The control panel we're looking at right now is the Files Panel.

The big area below with all the numbers in (that's the music!) is called the block display. This is the area you'll use to compose your tunes. In between the block display and the control panel is the status bar.

So let's have a listen to what we loaded. Click once on Play in the double bank of buttons at top right. The control panel will change to display the Play Panel. Find the Play Song button, take a big breath and click on it.

The notes under the highlighted bar are the notes currently being played. It all moves very fast and it all looks very complicated. But persevere, because in a while I'm going to show you how to compose a short tune.

A tune written with MED is made up of blocks. The demo tune we're listening to contains 19 blocks, numbered 0 to 18. In the Play Panel, at top left directly under the MED logo, you'll see a short list of five numbers, one under another. The middle number, the one highlighted, is the block that's currently being

If you watch carefully with the tune playing you'll see that many blocks appear in the PSL more than once - they are repeated. Once a block is composed you can repeat it anywhere you like in the tune simply by inserting its block number in the PSL at the

A block contains a number of lines for you to enter music on. The default is 64, although this can be adjusted to any number between 1 and 256. How quickly notes get played depends on the setting of the tempo proportional gadget (the slider bar at the top of the Play Panel).

OK, let's compose a little tune.

Select the Misc control button, click on Clear Song Only and then click on OK. What we've done is cleared the tune from memory but left the samples it was using behind so we can use them to compose our own tune.

Click the Sample control button and then click the >> gadget in the Sample Panel until "strings2" appears in the gadget above it. Strings2, which you'll notice is sample number 8, is now the current sample.

Before we can make sweet music together we need to tell MED that we want to do some editing, and we do this by clicking on the E button on the status bar. When editing is on, the E is highlighted. So do this now. Right, we'll start with channel 0 on the left. You should see a red rectangle (the cursor) in the block display next to the number 000. If not, hold Shift and press the up arrow key to get to the beginning of the block.

Here comes our first note - press the letter P once and let go, just as if you were playing a short note on a piano. You'll see the display for channel 0 change to look like this:

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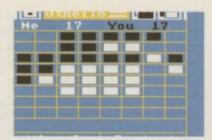
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for

The game waits till you click the left button once before starting play, so that if the Amiga is first it does not immediately play on loading. To place a counter click once on the centre of the square where you wish to play. If the move is legal, your counter will appear and the trapped counters will be flipped over. If it is an illegal



Level pegging so far at 17-17, but methinks Black has a dastardly plan...

position, nothing will happen.

to review the new board situation, the computer will make its reply if it can. The score line at the top Indicates the current number of counters as well as the players' colours.

When the game is completed and the result displayed click on Restart for a new game.

For the technically minded the After a short pause to allow you source code for Othello v1.18 is included on the disk. It has been crunched with Powerpacker. Double click on its icon to view it.

> If you wish to customise the program in any way - the weightings at the end of the listing may be of particular interest - you will have to decrunch the source first. You'll find the Decrunch

000 is the line number, E-3 is the note we arrow key until the cursor is over the "--" of entered (the note E from octave 3). The 8000 is a bit tricky, all you need worry about for now is that the 8 is the sample number - strings2 is sample number 8.

As you pressed P you heard the sound of the note. In fact, you're still hearing it because strings2 has been set up to repeat. Press the spacebar to stop the note playing.

Now use the down arrow key to move the cursor (the red rectangle) next to line number 006 and press O, move down to 008 and press I. (Don't forget, you can press the spacebar if you want to to stop the noise.)

Got the Idea? OK, now look at Figure I and enter the rest of the notes for this block. Note that next to the line numbers in Figure I are the keys you should press, not what is displayed on the screen. Also note that the figure only shows the notes you should enter, leave all the others

012 U 016 P 022 O 024 I 028 U 032 V 040 P 048 O

When you've finished select Play Block from the Play Panel to hear what you've done. This block needs to be played twice methinks, so stop the music and click once on the down arrow next to the PSL (the playing sequence list) and then click once on the + button. You'll see another 00 appear in the list.

Panel and click on New Block. Press Shiftdownarrow to get the block display to show the new block.

Now to enter the notes for this block, which you'll find in Figure II. You've got the idea of entering notes by now, so I won't pontificate.

Having entered the notes for block 1 go back to the Play Panel and add this block to the end of the PSL so that the list reads 00, 00.

000 Q 002 W 004 E 006 R 012 E 016 W 032 Q 034 W 036 E 038 R 044 E 048 W

Select Play Song to hear what you've done (spacebar or Stop Playing to stop).

At this point it may be wise to save things, just in case of accidents. Select Files, put a data disk in DFO:, select the DFO: button to let MED know you've changed disks, click in the File string gadget, type in a filename, click on Save and then on Save Song. You'll be presented with a requester asking which format you want to save it in. Choose Sona+Samples.

Get back to the beginning of block 0 by pressing Shift-uparrow. Now press the right

the first line (000) of channel 1. Make sure editing is on (the E in the status bar should be highlighted) and press the Q key. Now do the same thing for channel 3 on the far right.

Press Alt-spacebar to hear what you've done (Alt-spacebar is the hotkey sequence for Play Block).

Press Shift-downarrow to get to the start of block 1. Move the cursor over the "--" of the first line of channel 1 and press Z. Do the same for channel 3. Press Shift-spacebar to hear what the whole song sounds like after we've added this background hum. It's got a bit more

Right, the last thing we're going to do is use a couple more samples to add a bit of percussion. Get back to the beginning of block 0 (Shift-uparrow) and move the cursor over the ">---" of the first line of channel 2, the only channel we haven't used yet.

Now get the Samples Panel up and click on << until you reach popsnare2 (sample number 4). Now press R and you'll hear the sound of a snare drum and F-2 will appear in the display for channel 2 next to the line number, 000.

Scroll down the display and add the same snare drum note (key R) to channel 2 on lines 016, 032 and 048

Now click once on << in the Samples Panel Now for another block. Get to the Block to make bassdrum3 the current sample. Move to line 014 in channel 2 and press the E key. Add further bass drum sounds on channel 2 to lines 030, 046 and 062.

> Press Alt-spacebar to hear the block as it now sounds

> All we have to do now is add the percussion track to block 1. To do this we'll use a MED shortcut. Stop the music and make sure the cursor is in channel 2 (I assume you are still in block 0 - if not, get back there this minute!) and then select the Block Panel. At top left you'll see some cut/copy/paste/swap buttons for both track and block

> What we want to do is copy the current track in block 0 (the one with the cursor in) to channel 2 in block 1. So click on Track/Copy. Now move to block 1 (Shift-downarrow). Notice that the current track is still channel 2. Click on Track/Paste. You'll see an F-2 appear at the top of channel 2 proving that the track has been

> That's it. The song's finished. Press Shiftspacebar to hear it. Roger Waters eat your heart out (oops - don't be nasty to Roger, he

Of course, what we've done here is a very,

Samples

THERE are no samples provided with MED on the cover disk, except those contained within the demo tune, Song24. If you want, and you probably will, you can save out those samples as separate files using the Sample Panel in MED.

Pretty soon though you'll be wanting more. Where do you get them? Your best bet is to phone your local PD pusher and ask him. He's probably got thousands of samples on various Soundtracker

Of course, you could always create your own by using a sampler. This has the added advantage that your tunes will sound more original because the listener will be listening not only to a tune he hasn't heard before, but also to a collection of samples he hasn't heard before.

The third method of getting samples is to borrow them from other tunes. To do this you'll need something called a 'ripper". Again, contact your local PD pusher.

If enough of you write in demanding them, we might be persuaded to put a few on the disc in the future.

Copyright

MED v2.13 is Copyright @ 1989,1990 Teijo Kinnunen. It has been released as shareware, which means if you use the program regularly you should ease your conscience by sending a small donation to the programmer. If you don't want to send him cash, a present of some kind always goes down

Funny money, boxes of biscuits, bug reports, questions, hellos and anything else you like to: Teijo Kinnunen, Oksantie 19, SF-86300 Oulainen,

very, simple tune. MED is capable of <1>far<D> greater things. The more you play with, the more you'll find out about it. Do read the documentation a few times else you'll be missing out on some of the special features.

If you get really stuck you can always write to Teijo Kinnunen, the programmer. His address is in the Read Me file in the MED212 drawer. (He's still at school so give the guy a break if you don't get a reply for a while.)

But I reckon you'll soon get the hang of it. Before you know it you'll be sending me tunes for the cover disk.

Amiga Computing 103

cover disk.

Copyright

OTHELLO v1.18 was programmed in machine code by Stuart Bain and is Copyright @ 1990 Amiga Computing. Neither Othello v1.18 nor its source code should be included for sale in any public domain, shareware or freeware disk library. Pink Floyd don't have the monopoly on good lawyers

Fame or Fortune

We are more than happy to pay large sums of money for some of the outstanding and professional contributions we receive. At the same time there seem to be very few authors in this country who are prepared to launch their work as shareware.

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Pipes of Lost Time

DECEMBER'S tune of the month is a moderately-sized piece of music in the pop-cum-medieval-cumheavymetal-cum-madrigal mix. Don't ask me to explain that, it will all become apparent when listened to.

The tune came to its composer, Nicholas Heaps, one night when he had decided to produce something really outlandish. Luckily, the results worked. The whole thing took him about a week to finish and it recently won the Electronic Music category in a school music festival.

Nicholas uses an Amiga 500 with 1 meg of ram. Had he only had 512k, he would not have been able to create this song, but the final product runs on a 512k Amiga. If the the tune fails to play, close down all unnecessary windows (don't forget the CLI one) and try

Nicholas also has two fairly large speakers and a television plugged into the Amiga. There are three annoying things about his

command in the C directory of the television: It's not a monitor, it gets for fame and fortune? If so, perhaps please, preferably in self-contained upset and starts displaying rainbows because his speakers are so close, and there is a single cell on the screen that doesn't like the colour blue. Strange.

Sound Advice

Are you a budding musician looking

the Amiga Computing cover disk can give you a little push up the ladder. You never know who might the cover disk.

Original or classical stuff only include that on the disk as well.

modules.

If you insist on sending executable tunes, then try not to be listening to your music. For send the kind that freezes the instance, Howie Davies got mouse pointer or uses the left commissioned by a software house mouse button to quit; right button after Rock The House appeared on or both is better. If your tune needs a separate Play utility, please

QCal

QCAL displays a calendar of the current day, month and year. It then allows the user to display any day/month/year with the mouse, and recall or input an entry for that day.

All changes and additions will be saved in a file. QCal.dat, in the current directory when the program is ended, or when Save is selected. QCal.dat will be created if missing.

This is stating the obvious, but I'd better do so anyway otherwise Green will come round and bash me in again - QCal will only work correctly if you have a battery backed-up clock fitted in your Amiga, like the one in the A501 memory expansion.

If you haven't got a battery backed-up clock, you will need to use Preferences to set the correct day, month, year and time before running QCal. Refer to your user manual for instructions on using Preferences.

QCal can be started form CLI or Workbench. If you specify the -c flag from CLI (run gcal -c) the calendar will display a clock. The clock can be switched on or off by clicking on a hidden gadget in the top right-hand corner of the window.

To add an entry, select day/month/year by using the mouse. Click in the display box at the bottom of the window, then add your entry when the cursor appears. You have two lines in which to make your entry. Press Return at the end of each line to finish. The day number will then be highlighted in a different colour.

To display an entry, select day/month/year by using the mouse. Any days which have an entry will be highlighted in a different colour. The entry for that day will be displayed in the box at the bottom of the window

There are a few gadgets to play with. Most are self-explanatory ,but a few that could do with clarification:

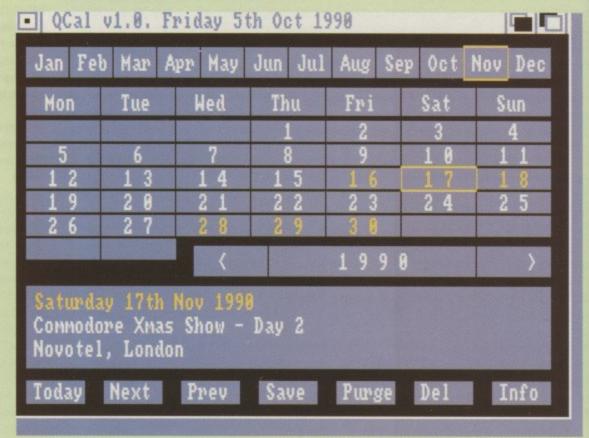
PURGE: Deletes any entries that are before the same day of the previous month. For example, if today was 23-Jun-99 and you selected Purge, any entries on the 22-May-99 and before will be deleted.

SAVE: Saves all entries to a file called QCal.dat in the current directory. All entries will be saved automatically when you quit QCal if any entry has not been saved.

YEAR: Clicking with the left mouse button on the arrows will change the year +/- one year. The right mouse button will change the year +/- 10 years.

Copyright

CAL was written by Malcolm McDonald and is Copyright @ 1990 Amiga Computing. It is freely distributable so long as no money whatsoever changes hands. QCal should not be included for sale in any public domain, shareware or freeware disk library.



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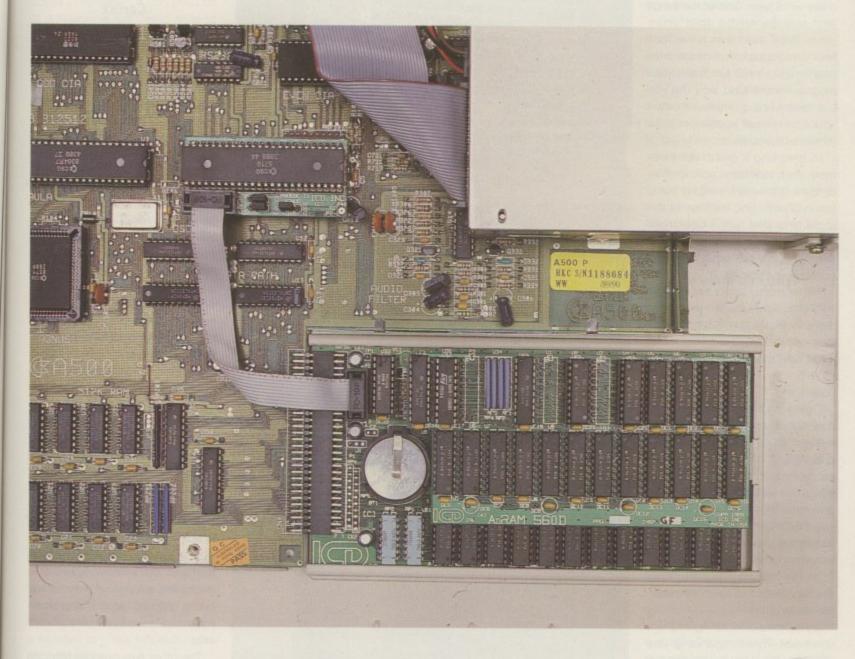
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Forget - me - Not



n business the entire corporate mentality is towards expansion, without which the financial machine cannot survive. Marxism was mostly based on the philosophy of the eventual collapse of this system when expansion could no longer take place.

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It is obvious that the anorak dictator, the coding Mussolini should also feel the need to expand. second floppy drive - the odd expanding their system? trapdoor half - meg being the only concession to expanding ram.

So why do so few people

Addressing the refreshing topic of memory expansion, Nic Veitch rams it home.

expand beyond the 1Mb boundary? Why are people willing to spend large amounts of their disposable income on magnetic

manufacturers are reluctant to bring out a product for which there

is a fairly exclusive market. For this reason you won't find many applications that require more than 512k, let alone 1Mb. This doesn't More often than not these needs media, digitisers and other techy mean that this software wouldn't express themselves as an A590 or gizmos of the age and very little on be greatly enhanced by using more memory, just that the market-The reason is twofold. Software ing guys behind it don't want to restrict their consumer base.

Of course this doesn't mean

that these applications do not recognise extra memory when they see it. Most do, and it can always be used as backing store if nothing else. The point is that many features may be restricted because they have been designed to work in smaller amounts of memory.

The second reason is that it is boring. You spend a huge amount of money on a giant memory expansion and what happens? The little number on top of the Workbench screen goes up a bit. No flashing lights, no spinning wheels or funny noises (well, not if

Feature

you connected it up properly). Not much scope for pulling the girls/guys there then.

Why do I need it?

Well, you don't actually need it. Nobody needs extra ram unless they have a specific task that requires it, and this is usually limited to the small number of people who actually make a living from their machine.

The point is it makes a whole lot of tasks a whole lot easier. Tasks is a key word here. One of the things that sets the Amiga apart from other 16-bit machines is the fact that Amigados can handle true multi-tasking – not just task-swapping as on the Mac and the PC, but tasks running simultaneously – you can format a disk and use Protext at the same time.

Multi-tasking is great, but obviously each task takes up a certain amount of memory. Imagine trying to run DPaintill and ProPage at the same time. Well, with about three megabytes it is a viable proposition, though you'll have to watch out for your chipmem.

This is another factor to be taken into account when looking at memory expansion. Generally, for most applications the critical factor is not how much ram you have in total, but how much chip ram you have.

Chip ram is the memory which can be directly accessed by the custom chips through their DMA channels. It is, therefore, the only memory that can be used for things like screen displays, sounds and other DMA-intensive activity.

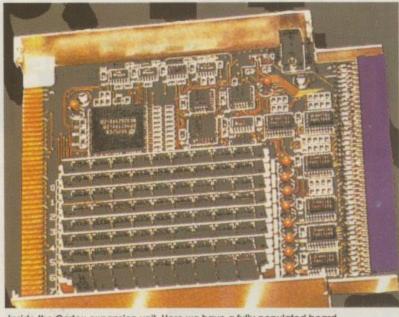
Expanding the total ram of your system will help alleviate this problem since programs will be able to fit in the fast ram, leaving chip memory available for more important tasks.

If you have a Fatter Agnus there is a possibility of expanding your chip ram to 1Mb. Usually this will require some modification to the A500's motherboard, thus invalidating your warranty.

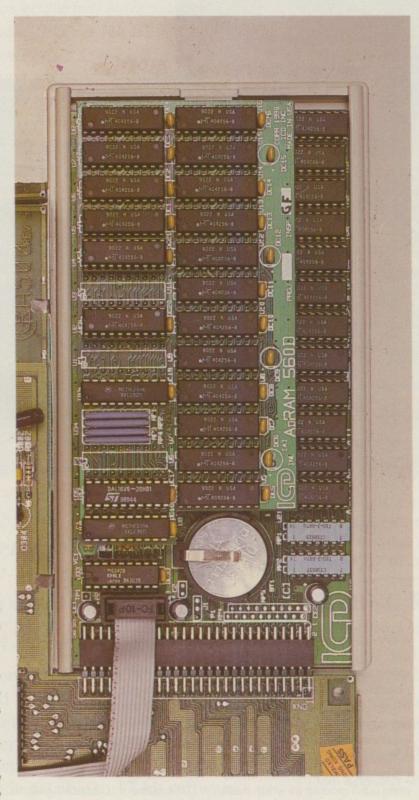
What's about?

Essentially there are two ways to expand your memory. First there is the old favourite trapdoor method. That is, after all, what it's there for. Originally designed to accept the A501 half-meg expansion, there are now quite a few larger varieties about.

The alternative is to expand, naturally enough, through the expansion port. This has the advantage of being much easier to achieve



Inside the Cortex expansion unit. Here we have a fully populated board.



(or offload if for some reason you wish to disconnect the ram at a later date).

Following slightly along these lines, many external peripherals which connect through the expansion port allow for memory expansion. The A590, CBM's hard drive is one example which allows for up to 2Mb in half-meg steps. Similarly the update to the Vortex controller.

Let's have a look at two ways of expanding your memory to mythical levels.

Cortex

The Cortex, from Memory Expansion Systems, is probably the best example of an expansion port type addition.

Visually unimpressive, the unit is a square box which fits snugly in the expansion port. The uninspiring outer case is broken by only three stunning features.

The first is the blanking panel for the through slot. To open this you will have to remove the screws on the underside of the unit. This is not particularly difficult providing you have a brain and a cross-head screwdriver.

There is nothing in the universe more annoying than the lack of a through port, except perhaps the tendency of Volvo drivers to cut out in front of my GPz550.

Imagine the scenario. You have two jolly useful, jolly expensive thingles that need to be connected to the expansion port. Both are fantabulous, but would be truly mega-fabby if you could use them together. But you can't, simply because the manufacturer wanted to save a few quid.

In this respect the Cortex unit excels, having not only a through port, but also a blanking panel to avoid the embarrassment of not being able to use it if you don't have any more expensive peripherals.

The other two notable features are a jack socket for the accompanying power supply and a little light that comes on to tell you that everything is mellow and just don't worry about it, everything's fine.

Why an extra power socket? Well, CBM have a bad history with PSUs. Around 20 percent of the C64s returned in the early days were due to power supply units having burnt out. The Amiga PSU is far more rugged and reliable – reliable, that is, for powering the Amiga and perhaps a few external floppy drives. When it comes to hard drives and 8 Mb of ram leaching of your Amy you may be

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There are some people who will maintain that they have memory, hard disks, floppy drives, genlocks and so on running off their A500 with original PSU with no problems. They will probably have a higher percentage of unexplained gurus, disk errors and other nastiness. If in doubt, pump it up, and that's what the Cortex allows you to do.

The unit contains slots for eight 1Mb SIMMs. In other words you can have 2, 4 or 8Mb but not the stages in between. It can be a bit of a nuisance not being able to add ram in small chunks. Since the ram is on a SIMM card, you can only use SIMM cards. No more bargain hunting at shows for cheap chips.

Aside from that, it works. What more could you want from a ram card? It is even A1000 friendly.

Adram 540

The Adram 540 from ICD is a trapdoor expansion. Not your normal half-meg job though. The AD540 is expandable, in blocks of 1Mb, to 4Mb. If that still isn't enough, there is a daughterboard option to bring your fast ram even further into the lofty heights of truly elephantine memory (yes, more than 64kl).

The snag with all this messing about in the trapdoor is (as Berk would tell you "there's something down there") that it is just that – messy.

For a start the board is a little too big to fit properly. A little handy work with a scalpel is required to make the trapdoor see eye to eye with your new piece of kit. Then, of course, you have to remove the shielding – not that it made much difference anyway.

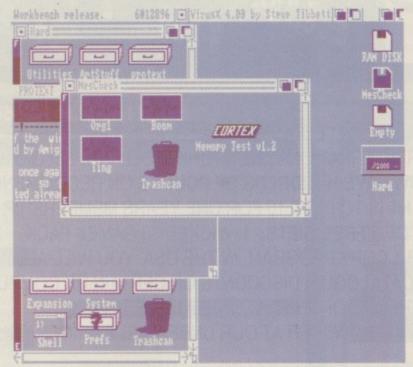
Since the memory mapping is all done through Gary, and since he isn't expecting to find 6Mb in the trapdoor, a little piece of hardware is supplied to make him look in the right direction.

A board has to be fitted to sit between Gary and the mother-board. This isn't too tricky .since those people at CBM have put all the important stuff in sockets – all the better for whipping it out. A ribbon connector connects the Gary board with the expansion card.

If you want to take advantage of a Fatter Agnus, or if you wish to install the A560D – a daughter-board which gives an extra 2 Mb ram – you will have to get out the soldering iron and do some nerve-wracking stuff.

A jumper lead must be connected between the Gary board and

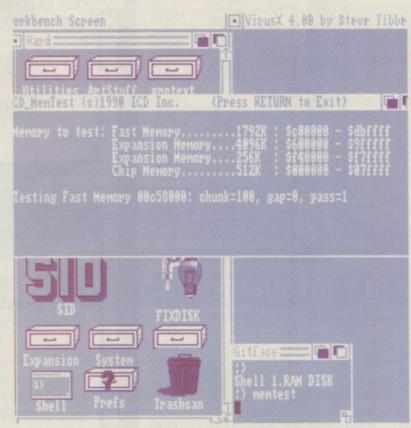
Feature



The cortex is supplied with a test disk and a few interesting samples



The cortex test software also includes a certain amount of trouble shooting



The test utility supplied with the ICD board is less impressive, but it works!

a vacant jumper hole on the A500 motherboard. This is slightly hazardous for those with the DTs, as the hole is situated between the 68000 and the Amiga rom.

Once installed, you can safely forget about it – there is little chance of it giving any trouble. The only bother is the fact that only 1.5 Mb of ram will auto-configure, the rest will only be mapped in after running the supplied software. This is fast in execution, and can be neatly tapped on to any startup-sequence.

The real advantage of this method is the fact that once installed your Amiga looks absolutely the same. There is no problem with your useable desk space suddenly vanishing, and you won't have to engage in major surgery to be able to use your mouse in your left hand.

There is no additional power supply for this model, but it is highly recommended that you buy an upgraded PSU if you are using more peripherals that draw their power from your Amy.

So what do I buy?

There is no answer to this question.

At least, not one that will prevent irate phone calls from thousands of readers willing to extol the opposite case.

The getout wimpy answer is that it's up to you. But of course it is. Adding ram isn't just a question of buying some chips and plugging them in. You have to look at the way your system is going to expand in all directions.

it would be too bad to spend a lot of money on one system only to find out later that you couldn't use it with some other peripheral you desperately wanted.

For example, the Adram will still allow you to use external auto-configure ram, like the chips you can plug into the A590, but obviously you can't use it with the KCS PC board, which has to fit in the trapdoor.

The ram expansion should be the malleable quantity. Let the decisions about other peripherals determine which expansion you buy.

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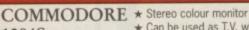
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Escape from Reality

HERE has been a lot of talk about the prospects of virtual realities in the future and about how Amiga technology is at the forefront of these developments. Maybe there's been too much talk. Virtual reality is not a dream of the future – it is with us here today, and in fact, has been for some time.

Virtual reality is a term which can be applied to many computer software constructs, it implies an interactive simulated environment which would certainly be satisfyed by say, a 3D maze game or even a flight sim. But it is not only in these alternative realities that we already have development.

There is a lot of interest in constructing a virtual reality analogous to our own, that is, a complete reality as close as possible to our own but under our control.

Real developments began to take place in this field with the arrival on the international science scene of a concept known as chaos theory. Some high level simulation of real world variables was required to explore the ramifications of this discovery.

The quest for reality through artificial data was well supported in the area of graphics too. The aspiration was to produce a photorealistic simulation of a landscape that only existed in the data banks of a computer.

While it is a matter for philosophers to mull over how it is possible to judge the apparent reality of a display, for the common man it is easy to see that at the moment we are as close as makes no difference. All he has to do is watch some of the computer generated adverts that assault us every night on the TV.

Do we need to justify this attempt at control over the reality we inhabit? Well, no. Not really. But that never stopped anyone. Ray tracing packages, it is argued, are a great aid to visualisation in design work. That may be true, but in my experience all the pretty pic-

Just as your favourite mag is due to be at the printers, Nic Veitch tries to escape the slings and arrows of outrageous publishing by retreating into a world of his own



Texture mapping expands the realm of raytracing into one of near photorealism

tures were produced after the design was more or less finished. In fact, if a designer hasn't got a pretty good idea of what something looks like before rendering then he shouldn't have been given the job in the first place.

Its real use is communicating this information to others less technically minded. Or for creating almost photorealistic images of imaginary – and therfore alternatively real – scenarios. Or for having fun with.

The point? Ray tracing packages, like little girls, need no justification. They are also quite moody and fairly unpredictable, but I'd

better not say any more or we'll get letters.

Real 3D

A few months ago if you were talking ray tracing on the Amiga you were talking Sculpt 3D. Now there is a choice. Two months ago we saw the release of Marcam's 3D Professional. And now we have Real 3D from Active software.

There is a certain attitude that seems to prevail in terms of ray tracing on the Amiga, to the effect that Sculpt is the standard against which all others should be judged. To a certain extent, since

it has been the only major selling ray tracing package in this country, that view is valid, but it would be very unwise to adopt standards just yet.

The reason for this is that Real 3D works in a way fundamentally different to Sculpt's approach. Sculpt considered each surface as being made up from small triangular flat planes. Every surface can be approximated in this way, the number (and therefore the size) of triangles used determining just how much deviation there would be between the true surface and this approximation.

The approach of Real3D is to consider each surface as just that, a surface in mathematical space. Only when it comes to the actual rendering is this surface quantized, broken from an infinite landscape into finite chunks of picture definition.

The advantages of this method are easy to realise when you see your first picture. Gone are the angular surfaces that were so characteristic of anything produced by Sculpt. Added realism is the bonus.

It also makes the components easy to rescale. In Sculpt when an object was created it was necessary to give it scale by defining how many points were to represent the shape. This meant if that object was used larger at a later date the triangular planes would be clearly visible.

If a large number of points were specified originally, to account for later changes in scale, this would result in higher rendering times for that object, no matter what size it was used at. Clearly an undesirable compromise would be necessary. So we see that early on, although the inevitable comparisons will be made to Sculpt, the approach is quite different.

Design

The design area, where all the serious mucking about and coffee

Feature

drinking goes on, will be familiar to anyone who has used a CAD or ray tracing package.

Three views of the "landscape" are presented, in wireframe form, arranged in orthographic projection. If you like, each view is a window on to the design area from a different plane, one for each of the three dimensions.

Each object must be designed either from the extensive range of primitives, or using one of the tools (which we will cover later).

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A primitive is a representation of a simple object such as a sphere, a cube, a cone or whatever. Any shape or size of building block which Fisher Price have ever manufactured is represented in some way or another. Each of these objects can come in any size or colour.

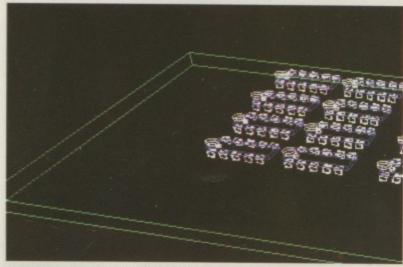
Complex forms can be created by combining these primitives. In addition to simply placing the objects so that they connect up, Real 3d allows a full complement of Boolean functions to be performed. These include ANDing, ORing, XORing and most other combinations you can probably imagine.

The use of primitives – or prims – and the additional ability to combine them logically with other objects lends itself to an engineering form of design. The operations performed on the prims are very much akin to the kind of shaping, milling and forming that would go on in the workshop.

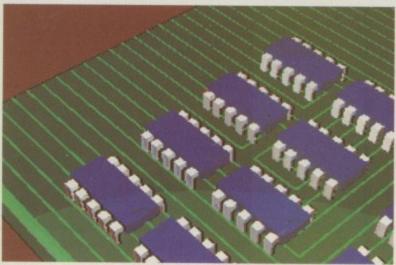
The windows can be resized to facilitate the positioning of small objects, and in fact the entire screen can be given up to the view from one window. Since most design work is usually and easily accomplished in two windows I still find it difficult to believe that no one has ever included a "view two windows only" option.

The co-ordinate system can be switched from absolute (x-y position from the origin) to relative (x-y position from the last selected point). Judicious use of the Amigaarrow key combination is called for to accurately position the cursor, unless you have a remarkably good mouse or a remarkably steady hand.

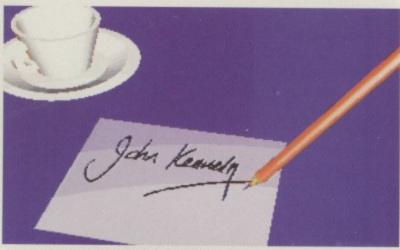
The wireframe views themselves can also be modified. There are good reasons for deleting wires from the view of an object: In complicated ones in can often be



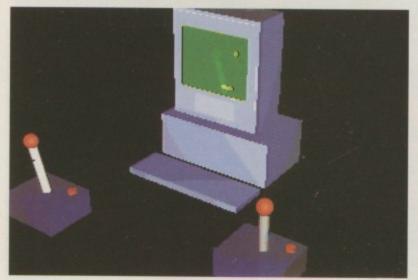
The wireframe preview from a circuitboard effort...



And here is the finished product. Perfect presentation graphics



Creativity bordering on sheer poseyness here I think



a lot easier to work out just exactly what is going on with a few less wires hanging around. It also makes the screen refresh a good deal quicker.

Tools

In addition to manipulating prims, objects can be made using a variety of tools. The most useful of these is undoubtably the lathe, which is in some ways better than the real thing.

Having entered the position and orientation of the spindle a profile line can be drawn, this profile is then rotated around the designated axis to give a solid object. It is possible with this tool to bring the workpiece to a point anywhere along the spindle (which in real life would have the work flying across the workshop at 600 r.p.m.).

The rectangular and cylindrical tube tools will allow the designer to flow a tube of defined cross section along a profile line. These two are very useful for creating everything from handlebars to chairs.

Lastly there's the pixel tool. Any IFF can be read in and converted to a selected object, ideal for rendering that corporate logo or portrait of your good self.

Hierarchy

This is one of the most impressive features of this package. Also objects are created in a hierarchy. This means that, for example, if you were to create a stool you could either have the object grouped as: seat, leg1, leg2,leg3 and leg4, or as: seat and legs, where legs was a lower hierarchical level.

There may not seem to be much difference at this stage, but supposing I now want to make all the legs green. In the first example I'd have four operations to complete, one for each leg, whereas in the second example I could do the same job in just one operation.

Saving and keeping large libraries of objects also becomes more feasible. You could use the chair in any one of many potential scenarios so it's nice to be able to identify that as one component of a scene.

Hierarchical systems will save you effort and headaches every time, but you must use them prop-

Feature

erly. A certain amount of thinking is required to plan out your object before you lay mouse to window.

Macros

Macros, short sequences of automatically executing commands, are well supported in Real3D. It is often necessary to repetitively perform a series of operations, for example, creating a row of 10 copies of one object.

This is where macros come in. Start recording, copy the object and move it. Now successive operations can be performed by the press of a button. Not only is it labour saving but it is more precise than trying to do the operations manually.

Materials

In order to create a true photorealistic representation of a scene, account must be taken of the different light-affected characteristics of certain types of material.

Glass, for example, is almost completely transparent, and yet at the same time highly reflective, whereas metallic surfaces are reflective but not in the least transparent.

A whole range of materials come pre-defined with Real3D but you are at perfect liberty to design your own if you see fit. Sliders control the brilliance (reflectiveness), transparency and "speed of light" through the substance.

The speed of light is actually referring to the refractive index of a transparent body, the measure



A prisoneresque landscape planned (above) and wireframed (below)



of how much light gets bent as it enters. It is possibly to choose a refractive index far above any that actually exist for any material on this planet.

Materials may be merged, saved and loaded at any time, but remember to load the right materials before you start fiddling around with a scene. Fortunately the materials can be stored as sets, so you can tie in the name of a range of materials with any particular set of scenes you are working on.

The bending of light through objects is quite useful. It is quite conceivably to create a working lens using real 3D, though calculating it's focal point may be a little tricky.

Although light is bent when passing through transparent objects no account is taken for the different frequencies of light.

This means that you rather unfortunately won't be able to recreate the album cover from Dark Side of the moon – a prism will only bend white light in Real3D, it won't split it into a rainbow. Still, it does allow for some very interesting (and realistic) optical effects

Textures

Another feature, which every raytracing package but Sculpt seems to have, is the ability to map an IFF Image around the surface of an object and so give it an apparent texture.

All varieties of IFFs can be used, from 2-colour to HAM and any size you care to mention. A whole set of different mapping methods opens up a whole range of possibilities. If you were to scan in a map of the world and use a "ball" projection on to a sphere you would have a globe.

These textures can also be used, obviously, to give apparent depth and detail on the surface of an object, where it would be impractical to include this detail by way of adding many small prims.

Wireframe

The wireframe preview mode allows you to take a quick look at the positions of your objects before you commit yourself to a full render. Also in this screen are controls to adjust the apparent perspective of the scene (If you like, the focal length of the lens on the camera you are using to take the picture) and it's magnification.

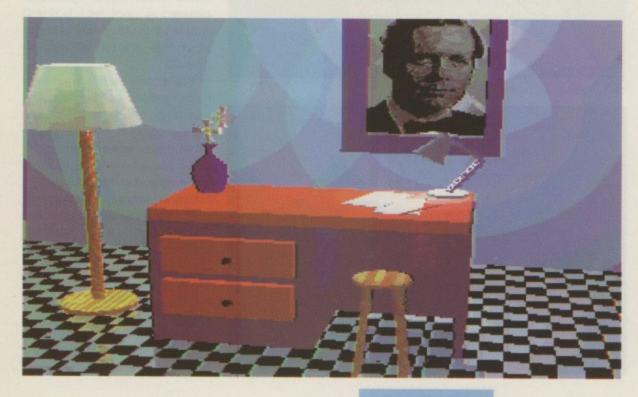
The wireframe is invaluable, easy to use and so quick, even with many objects to display, that it is scarcely believable. Where it really comes into its own is in the preview of an animation.

A near enough 20 frames per second animation should let you see how the finished article will look.

Rendering

There are many options in the rendering phase. Fast will provide you with a more complete idea of exactly what is going on. By the way, calling it fast isn't that misleading. The time taken for a simple screen is quite astounding.

Some fairly cunning routines are at work which actually make the time taken more predictable. The rendering speed is less dependant on the number of objects or how many light sources there are. The lampless mode will autolight the



area, giving you an idea of what everything is going to look like before you decide on the dramatic lighting effects to use. Unfortunately, since the brightness of the lamps is not adjustable, these effects are quite difficult to obtain.

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Lampless mode will also map in any textures used, something that would be left out in fast mode in the interests of speed.

Normal mode will take into account shadows, transparent objects and textures. In fact normal is the highest quality rendering you can get. For really excellent results you can add dithering, shading and turn on interlace mode. Machine parts and metallic sculptures always look better using the greyscale option.

The two remaining render modes are shadowless, which is a bit self-explanatory, and outline, which will do some interesting hidden line removal for you, though quite slowly for some reason.

Backlight control, colour and brightness are selected from a series of sliders. Beneath these are the resolution controls. It is possible to render an image faster by using big chunky blocks instead of pixels, but this is only really useful when used in conjunction with the Box feature.

Real3D will use all of the memory it can get hold of in an effort to speed up rendering. In fact even the beginner version requires at least 1Mb. I have 6.5Mb installed on my system – Real3D is the only software so far that has used over 95 per cent of that!

Boxes

A jolly handy thing is the box. While on the render screen a box can be drawn around any area of the screen. Selecting Fill Box from the pull down menu will render the data only in this box.

This is incredibly useful if, say, you are only changing a detail in one small part of the screen, or for an animation where all the motion occurs in a box which is smaller than the total screen.

It can also be used quite stunningly with the resolution control on the main panel.

Animation

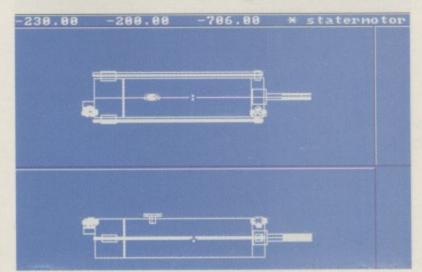
Real3D really excels in the animation department. Spline orbits for



Some wonderful effects can be created with shadows



The desk again, without the wood texture



the observer, the aim point or for any of the objects can be drawn and the resulting frames will be automatically calculated by the software.

This means that once you have completed your master design for a new house, city or universe, all you have to do is specify a path through it and the software will take care of the rest.

Stroll through the wireframe preview and make a few adjustments and you are ready to render the lot in one batch. On the render master control panel turning off the single option and adding a filename in the box provided means that every frame in the current animation file will be rendered.

Not only that, but it will be saved to the pathname specified as numbered frames. These can then be loaded into the replay facility, or even into a completely different package, since they are plain IFFs.

In reality

Is it worth it? As ray tracing goes, and I've yet to find anyone who makes a full-time living out of ray tracing on the Amiga, this is certainly one of the best packages around at the moment.

If after reading all that you're still not convinced ,work out how many games you could buy with the same money. You think it's a lot? I reckon you'd spend more time creatively designing and enjoying the world of Amiga graphics with this spackage than you would playing twice that number of games.

The Sculpt scenario won't happen again. The next version is already underway, with 24-bit colour image support. Ray tracing is becoming the cult scene on the graphics circuit again, with more packages being released across all formats than you could safely wave even a small stick at.

What Real3D may lack in certain aspects of image quality it more than makes up for in speed and ease of use.

Here, at last, is ray tracing for the masses.

Reviewed: Real3D Professional Active software/Amiga Centre , Scotland Tel:031-557 4242

OW often have you muttered "Who writes the music for these things, I could do miles better than that, if only I had the gear" while you waited for a game to load?

Well now it's time to put your melody where your mouth is and prove your point with Mugician, a professional standard music package based around good old Paula, the all-singing all-dancing sound chip.

No doubt all the musos out there are just about to flick over to the next page, thinking that anything that is not dedicated to Midi is not worth bothering with.

Fact is, they'd be sadly mistaken - the games and demos scene could do with some new musical ideas, and Muaician could well help meet that challenge.

If, like myself, you are a musician but not a programmer, struggling to bring your great ideas to electronic life, Mugician could be a godsend. With it you work with samples - including your own which can be manipulated and incorporated into your own programs.

Also featured is simulated synthesis, with which you can create sounds from their component parts, designing your own waveforms and adding various effects. These sounds can consequently be saved for later use.

Making sounds from scratch, even with Mugician's aid, is still a difficult business, and it's a good idea if you are a beginner to use some of the sounds provided until you become more practised. As I mentioned earlier, this is a professional utility and will take a novice a while to master it.

This is what you will be dealing

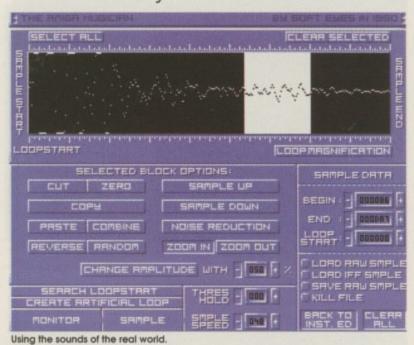
Song Editor: The first screen you will see on loading will probably be the last you will use. This if where all your hard work of creating sounds and consequently patterns is put together into sequences to produce your final four channel masterpiece.

The Instrument Editor: This is where the first 31 of the possible 63 sounds can be produced via synthesis, or in my case blind chance. All the parameters required to design sound are available, plus an effects editor which is excellent for creating weird and wonderful sounds (great for games). The main advantages of using waveforms are their efficient use of memory and, of course, the effects available to manipulate them.

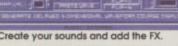
Feature

Mugician

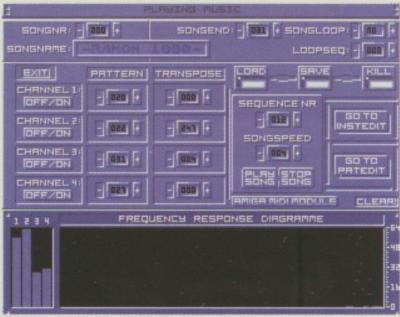
State of the art or sleight of hand? Paul Austin pulls the latest music utility out of the hat



-FLYS







Where you construct your final masterpiece

The Sample Editor: Here is where the other 32 possible instruments can be loaded in sample form. They are held in one large buffer one behind the other, which can then be zoomed in on and various editing functions applied.

Looping is available, plus the ability to load IFF sample files, like those created with Aeais Audiomaster or any of the samplers featured in last month's issue.

If you have a parallel type sampler - not a joystick port model you can use your own samples with the program, which is happy to use samples of various rates and lenaths, dependent on available

The Pattern Editor: Once you have amassed the sounds you require it's time to write a classic and this is where it all starts. Patterns work in step time, each 64 steps long, and up to 255 separate patterns can be edited for use in each song. The finished patterns can then be formed into songs in the sona editor.

The manual suggests that you should read it at least three times. This is very good advice - take it! Each of the above sections could warrant a small novel in itself.

A more detailed review of the program features would have left both of us a good deal older and you probably none the wiser. The best way to learn with a program like this is by experimenting.

The manual also offers a Programmer's Corner which contains some assembler routines so your songs can be used independently of Mugician, for instance in games, demos, and so on. Basic Midi functions are available but external keyboards are not essen-

Without doubt Mugician was produced more with the programmer in mind than the performance musician. There are quite a few PD packages for this area of tune composing, but this package has a more professional feel to it. The remarkably useful synthesis facility is something you will not find in any of the Soundtraker clones.

> The Digital Mugician Softeyes (0734) 817261 \$29.99

This may not be one for a beginner, but for a serious user who wants a all purpose music and FX package, it could be

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MACHINE CODE121

The way to the heart of any hi-tech machine is at the lowest level possible. So reckons Jolyon Ralph, the thinking man's guide to all things 68k. This month he looks at a useful book and explores the world of "rippers".



Any Soundtracker/Noisetracker clone is only as good as the samples it sequences. In this enlightening article Paul Holmes explains how to tell a tune by its cover and how to take the wrapping off, IFF style.



MUSIC 129

Jason "Donovan" Holborn delves once again into the music world. Among the scores of snippets he uncovers this month are new versions of MusicX and that old chestnut that's been around almost as long as he has, Deluxe Music.



COMMUNICATIONS 133

Once again Armitage prepares you and your system for entry to the electronic reality that permeates the very ether. Grid-locked on, decked up and with clean sox you are now ready for the alternative real world.



DESKTOP PUBLISHING .. 137

The archaic Nic Veitch attempts to get up to date with some of the radically new concepts in the world of DTP – without mentioning those nice people at Gold Disk (well, almost).



Paul Austin, the man who is to money management what John Major is to, well, money management, picks up his penny and his briefcase to discover that there is some finance software worth the interest.



AMOS.....145

Still here by popular demand, Peter Hickman answers some of those difficult questions about the authoring system of the hour. Which hour is perhaps a little obscure but we'll let Peter deal with that.

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Books, bugs and an easy way to create your own tunes. Amiga Computing's resident guru Jolyon Ralph continues to investigate everything 68k



friend of mine phoned me a couple of weeks back to rave about a new book, "Mapping the Amiga" published by Computel books. He said that since getting it he has not needed to touch his collection of Abacus and Addison-Wesley reference books.

Could the vastly expensive and several thousand pages worth of Amiga programming manuals really be condensed into one £20.95 book? This was one I had to check out.

Scanning through the book reveals short – half page on average – descriptions of all library calls, all system structures (ExecBase for example), and every hardware register, including all the fiddly CIA registers that no one can remember properly.

•How does it cram all of this into 446 pages you may be asking? Well, It is basically a reference book. It is not intended as an introduction to Amiga programming.

Although it does include an introductory section on how to use library calls in Assembler, C and Modula 2, this is only 12 pages long.

There are explanations of how things like Copperlists, the blitter, sprites, etc. work hidden throughout the book, but they are arranged in order of hardware registers, not in an order that beginners could work through easily.

The outcome is that the book is very sensibly arranged for people who already know the Amiga well. The long explanations of the blitter, and so on are ideal 'memory fresheners', but I'd recommend another book, either the Amiga Hardware Reference Manual (Addison-Wesley) or The Amiga System Programmers Guide (Abacus) for people new to Amiga programming.

For experienced coders the book is brilliant. Every hardware register is documented in order. No more looking up what \$aff016 is in a table, looking that up in the index and then reading about what it does. Just scan through the book for \$aff016 and the information is there at your fingertips.

With library calls things are even easier. Before you would have to look up a

routine through several different tables, then finding out it is a Dos library call which is in a different book by a different publisher! All library calls and structures are listed alphabetically.

I have several times in the past given up with the old manuals when trying to find something like the RastPort structure information. With this book I found it in seconds.

The hardware registers are excellently documented, the Library and Device calls are well covered, but a book of this size could not hold all the information there is about all these different calls, so you may still find the official reference guides are useful.

In conclusion the book is brilliant, I don't know how I ever survived without it now. Not the best thing out for beginners, but if you've mastered the basics and need a decent reference, this beats the Amiga System Programmers Guide hands down. And It's £12 cheaper tool



Danger UXB

Something not so wonderful may be happening in the not too distant future. Remember all the scare stories of Amiga viruses living in battery-backed clocks? Remember rumours of viruses that could destroy your Amiga?

Now, with the aid of the new ECS chipset on the very latest Amigas – currently only fitted to the 3000, but available soon for all Amigas – it is possible for a virus to blow up your monitor!

I'm not going to tell you exactly how to do it in this column, that would be stupid, but the new Denise chip has to do some special tricks to be able to produce the new video modes, and if you fiddle with these you could send signals to your monitor that could damage it.

What if you write a program that crashes and Just happens to write to the wrong hardware register? Just make sure your code keeps clear of any register above \$dff1bf.

The 68000 is a fast processor in fact.

The 68000 is a fast processor, in fact compared to similar speed chips found in PC clones, it's very fast. Not as speedy as a RISC chip (extremely fast), but you can't have everything. Still, there's more than one way to skin a cat, and there's n point using a fast processor and programming in machine code if your routines are not as fast as they could be.

The obvious way to do something is not necessarily the quickest. For example, to clear a data register – dD for example_ the instruction CLR.L DD may be the obvious choice to many of you. However, that takes six clock cycles, and the less-obvious MOVEQ.L #0,D0 only takes four cycles.

There are several of these single-instruction level substitutions you can use to speed up you code, but that's only part of the story. Take the following routine, to move a block of memory 1000 bytes long from memory pointed to by a0 to memory pointed to by a1:

move.l #0,d0
loop: move.b (a0),d1
move.b d1,(a1)
add.l #1,a0
add.l #1,d0
cmp.l #1000,d0
bne loop

Now, I've gone over the top with that routine. No one with any knowledge of 68000 would write a routine as bad as this, but the important point is that the above routine works. It is perfectly valid 68000 code.

Let's try optimising this routine. Firstly, look at the four lines after the LOOP: command. They can be replaced with a single line:

move.b (a0)+,(a1)+

Now look at the rest, the first and the last three lines. They can be replaced by a DBRA loop, So our final code is;

move.I #999,d0 ; DBRA loops for D0+1 times.

move.b (a0)+,(a1)+ dbra d0,loop

Isn't that a lot simpler? And faster. Ignoring the loop, the original code would take 64 clock cycles per byte transferred, the new version only 12. This is a good example of how to speed a routine up by recoding with faster equivelant commands.

However, the method is still the same, take a byte at a time and stick it into the next address. The next level of optimisation depends on rethinking the whole approach to the problem. Why move a byte at a time when you can move four?

move.l #249,d0 ; 250loops 250 x 4 = 1000)

loop: move.l (a0)+,(a1)+ dbra d0,loop

Now, the move.I (a0)+,(a1)+ in this takes 20 clock cycles, you have to add on 10 bytes for the loop, but as you are only calling it 250 times instead of 1000, it is much faster (7500 cycles compared to 22,000 cycles for our improved byte transfer routine, or 88,000 cycles for the original routinel).

This gets block moving down to 7.5 cycles per byte. There is a faster way, 250 lines of move.l (a0)+,(a1)+. This is a bit daft for memory reasons, but if you really need the speed, it shifts at five cycles per byte. You can improve the performance of the routine by putting more than one move.l in the loop, for example:.

move.l #124,d0 ; 125 loops (125 x 8 = 1000)

loop: move.l (a0)+,(a1)+ move.l (a0)+,(a1)+ dbra d0,loop

I'm not saying this is necessarily the fastest way to do it, in fact I'd love to see a faster routine (68000 only, no cheating with the blitter please!).

If you want to share your fast routines, be they block moving or anything else, send them to me. Got a fast multiply or divide routine? Have you sussed hex to decimal conversion? No doubt I'll cobble together some form of prize for the fastest routines in various categories



Rip it up and start again

Have you ever loaded up a demo and thought "I like that music, wish I could rip it". Have you tried one of the



ACHINE CODE

public domain music rippers with only limited success? The reason is that most demos clear the memory on exit, or the module is immediately overwritten in memory by something else loaded in, quite often the music ripper.

Now, the Action Replay cartridge from Datel doesn't find Soundtracker modules for you, but with its help you can hunt down and rip the tunes with ease.

For this trick, you will need one Amiga 500 or 1000 with at least 1Mb of memory, 1an Action Replay cartridge, a blank formatted disk, a sensible version of Soundtracker (Pro-tracker, or Noisetracker V1.1 or above) and a decent soundtracker ripper (the latest Fraxion ripper, for example) or Rossi's public domain Amiga-Mon, or preferably both.

Power up your Amiga, and when it prompts you for a disk press the Action Replay button. From the Action Replay screen press F9, if necessary, to get rid of the German keymap. Then type ZF0 to disable your fast memory. ZV0 to disable virus testing and ZM0, to disable cleaning ram on reset.

Reset your Amiga again – this is important, it disables the fast memory – and boot the disk with the tune you wish to rip. Wait until the tune is playing then press the magic button.

Now – and this is the clever bit – type LORD OLAF on the cartridge screen, and it will inform you that Sysop mode has been activated. This will allow you to read and write to any area of memory, including the previously protected cartridge ram, and our disabled fast memory. You can even disassemble the cartridge.

What we can now do is copy the entire contents of chip memory, including the module, into fast memory, which, as it has been disabled, cannot be overwritten by a soft reset, or by loading other software in. This is done by typing:

10 7ffff c00000

(assuming your fast memory lies at \$c00000, as all A501 compatibles do). Now reset again and load your music ripper. Tell it to hunt in fast memory, and with any luck it should find your module.

If you haven't got a ripper, or it can't find it, you have to resort to the manual approach to hacking modules. Using either the Action Replay monitor itself, or better still, Amiga Mon, the public domain monitor, hunt for the string M.K. (M dot K dot) in memory. This stands for Mahoney & Kaktus, the authors of Noisetracker, and all Noisetracker modules (95per cent of demos use Noisetracker modules) carry this stamp.



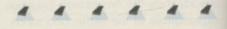
Code is the way to the heart of the machine

This is near the beginning of the module. Hunt backwards in memory from this point and you will see the names of all the instruments (for example ST-04:boringbassdrum) and at the beginning the name of the song.

Starting from the first character of the name of the song, save out a large block of memory to disk. 300k is usually enough. Call it mod.something, so you can load it into Noisetracker. If you've used the cartridge monitor to save this file out, you will have to FDOStoDOS convert it first.

Now, reset the cartridge and the Amiga back to their default settings. The quickest way is to power off your Amiga for 10 seconds and power it up again. Load up your Noisetracker Protracker and load in the module you saved. Save it back to disk again immediately, and it will save it as the proper size.

Play the module. If it works, you've successfully ripped the module. If not, try again. I must thank Alex Slater for his help in preparing this ripping yarn, and he hasn't even got a cartridge! (Ahem Date!?)



Jot to Jolyon

Have you got a problem with your sprite routine? Is your assembler giving you grief? Are you fiddling with the wrong bits in \$dff040? Or have you written some mind-shatteringly fast routine to calculate the average airspeed of an unladen African swallow to 20 decimal places?

If so, write to: Jolyon Ralph, c/o. Amiga Computing, Europa House, Adlington Park, Macclesfield SK10 4NP. or if you're a really hi-tech guy, send me electronic mail on CIX (jralph@cix) or on the CABBS or Yukon Hol Bulletin Boards (see COMMS listing)

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Paul Holmes takes the wrapping off a sampled sound file to see what's inside. If you want to hear what he is on about, check this month's Amiga Computing cover disk

E stopped our look at IFF rather abruptly last month,

rather exciting bit on SMUS chunks. So

just before we got to a

let's rejoin the action. A SMUS chunk has seven standard chunk types - SHDR, NAME, Copyright (°(c) °), AUTH, ANNO, INST and TRAK. It may also contain embedded instrument forms - hopefully 8SVX, but they don't have to be. Descriptions of SMUS standard chunks can be found in the Exec manual App.B pp.53-62, and are not given here.

NAME, Copyright, AUTH and ANNO are treated as text, as in 8SVX.

The SHDR format is just like VHDR, in that it is case-insensitive, but fussy about order.

53484452 00000004 397C7001 SHDR 91p.

appears as:

SHDR | ;size=4 tempo 14716 volume 112 tracks 1

INS1 chunks come in three flavours _name(type 0), MIDI(type 1), and general type. The last of these is unlikely to be used, and if so I've no idea what for, but it's provided for flexibility.

494E5331 0000000F 01000000 46656E64 Fend 65725374 72617400 494E5331 00000004 05010307 INS1..

494E5331 00000004 040940FF

are equivalent to:

INS1 (;size=15 register 1 name "FenderStrat" INS1 | ;size=4

register 5 channel 3

and:

INS1 | ;size=4 register 4 TYPE 9 data1 64 data2 255

Note that the zero on the end of "FenderStrat" is just a padding byte, not a terminating zero, as the length of the string (9) is just the chunk size (15)

All three INS1 formats are order critical. Mnemonics like "name" or "preset" are case insensitive, but the contents of strings like "FenderStrat" will be copied with case information preserved, as this is likely to be demanded by application packages.

TRAK chunks are the most complicated, and their format reflects this. Each event has its own mnemonic.

use the instrument in register 2. time 3/4 use 3/4 time in score. keys Db use D flat key signature in score. volume 127 full volume. Figure may be 0..127 midichn 5 set MIDI channel 5 midipre 34

set MIDI preset 34

As the above are events, not fields in a data structure, they may appear in any order, and any number of times throughout the track. Not all music packages will accept a keychange mid-score, but there's no law against it.

Notes and rests have the format:

<notespec> ("c") ("t") (<tuple>) ("d") "/" <value>

<notespec> = (<note><octave>)|'rest' <note> = "C" | "C#" | "D" | "D#" | "E" |

'F' 1 ... 1"B" 1

<octave>= "_" | "0" | "1" | ... | "9" |

"c" means the note is chorded.

"t" means the note is tied.

<tuple> = ":3" | ":5" | ":7" (for triplets

<value> = "1" | "2" | "4" | "8" | ... | "128" | (2=minim, 8=quaver, et al)

"rest/4" means a crotchet rest.

"C#5:3/8" means C#, octave 5, quaver, part of triplet, so 2/3 normal length.

*F2d/4" means F, octave 2, dotted crotchet.

Note that flats are not yet supported (they soon will be), and that most applications (for example Sonix) will use octaves 2 to 7. A1=55Hz, A4=440Hz, A7=3520Hz.











Samples

Samples are stored in an IFF file called "8SVX" which stands for 8-bit Sampled Voice. It can be used for two different jobs - a one-shot sound effect or a musical instrument. Let's look inside an 8SVX, to see how it does it.

Every FORM 8SVX contains at least two chunks - VHDR and BODY. The last is the chunk which holds the sampled waveform values, and it's probably quite large. A 3-second sound effect, sampled at 12kHz will use almost 36k. The VHDR chunk, on the other hand, is tiny. Just 28 funpacked bytes, laid out like this:

56484452 00000014 00008CC4 00000000 VHDR ... 00000000 2EEB0100 00010000

which translates into:

;size=20
;(4 bytes)
;(4)
- ;(4)
;(2)
;(1)
;(1)
;(4)

This means that the size of the sample – that is the data size of the body chunk – is equal to oneShot+repeat = 36036 bytes. A repeat value of zero means that this is a one-shot sound.

PerSec is the number of samples to play back each second. PerHi and octaves are used for musical instruments – more on these later.

A value of 0 in the comp field means that no compression is being used. Last time I checked, the only other value reserved for this field was 1, meaning Fibonacci-delta encoding.

If you have your own compression method, put another number into this field, to identify the compression method you have used. Ideally, get in touch with Commodore to register your number, so that compression method number 27 (or whatever) means the same to you as it does to everyone else.

Bear in mind that the oneshot+repeat = the number of samples after any decompression, so it's only the same as the data size of the body chunk if the sample is uncompressed (they usually are.)

Finally volume, ranging from 0 to 0x10000 (65536) and not 0xFFFF, strangely enough, for full volume. Zero is for silence.

Here's a thing – why is the playback rate 12012Hz, not 12,000? I'll tell you. The audio chip has a clock rate of 3,579,546 cycles per second (on a PAL A500 – don't assume it will always be this). The rate at which it plays back a sound is calculated as one sample per N clock cycles. The period is calculated as:

int(3579546/ideal frequency)=298 cycles.

The actual playback rate will then be 3579546/298, or 12011.899Hz. This is the closest approximation you can get to 12kHz. No worries – it's only out by 0.1%, so no one can tell the difference.

Musical instruments are rather more complicated than one-off effects. Sample lengths are the first problem. What if a piece of music calls for a very long note, say a whole note in a smoochy slow number. Must we store a huge sample of the instrument to allow for this possibility?

Thankfully no. What we can do instead is store a one-shot part which is used at the start of the note, and a repeat part which is played over and over again until the end of the note. If the values were one-shot=35036, and repeat=1000, then a play-back routine should play the first 35036 bytes once, then repeat the last 1000

Volume (%) 100 00 ATAK RLSE 100 100 200 100 200 100 200 100

bytes until told to stop.

The repeat part must contain an integral number of waveform cycles – if not you'll get a loud click at the end of each repeat.

Frequencies can also be a problem. For one thing, the playback rate is not fixed – it has to be altered in order to generate different notes. Also, many musical instruments cover a wide range of octaves.

To go up to a frequency much higher than that at which the instrument was sampled would push the audio DMA down to a very low period.

Firstly, you can't have one sample in less than 124 clock cycles. This would give the hardware insufficient time to fetch data from memory.

Secondly, frequencies are less accurate as they get higher. The nearest approximation to 28kHz is 28185Hz, out by 0.66%, starting to get noticeable.

To get by these limitations, the instrument can be sampled at several different octaves. The "octaves" field in VHDR is set to the number of octaves used. The BODY chunk starts with the instrument samples at the highest octave. The "oneShot" field contains the number of bytes in the one-shot part of the highest octave. The "repeat" field does the same for the repeat part, so together they add up to the total length of the highest octave.

Next in the body chunk is the next octave down, which is exactly twice as long as the first octave, as each octave is twice as long as the one before it.

Finally, the "perHi" field is used to say how many samples there are per waveform cycle in the highest octave. The "perSec" field is ignored.

An 8SVX form must have a VHDR and a BODY – these are required chunks, but it can also have optional standard chunks. And like any IFF FORM, it can contain non-standard

chunks too. (Look back at November's Code Clinic for a reminder of what these terms mean.) Your program must skip over any chunks it doesn't recognise, not just guru out. If it does that's your fault.

Three common property chunks are "NAME", "(c)", and "AUTH", which are text chunks used to hold the name of a FORM, its copyright details and the name of the author. Because they are property chunks, each type should appear at most once.

There may also be one or more "ANNO" data chunks, holding text annotations typed in by the author. Frankly, ANNO is very rare in 8SVX files, but you could well see them in other FORM types.

Finally, let's have a look at the envelope chunks, ATAK and RLSE. These are used to change volume factors as a sample is replayed. (By volume factor, I mean that each point is a multiplier of the global volume given in the VHDR chunk.) Each envelope chunk contains one or more 'EGPoints'. Here's an example:

4154414B 0000000C 00640001 000000C8 ATAK....... 00008000

This means:

"Start the volume at zero, then over the course of 100 (\$64) milliseconds slide it up linearly to 100% of the global volume (\$00010000). Next, over the course of 200 (\$C8) milliseconds slide it down to half the global volume (\$00008000)".

You know that it has two points, because an EGPoint is always six bytes, and this chunk has a data size of 12.

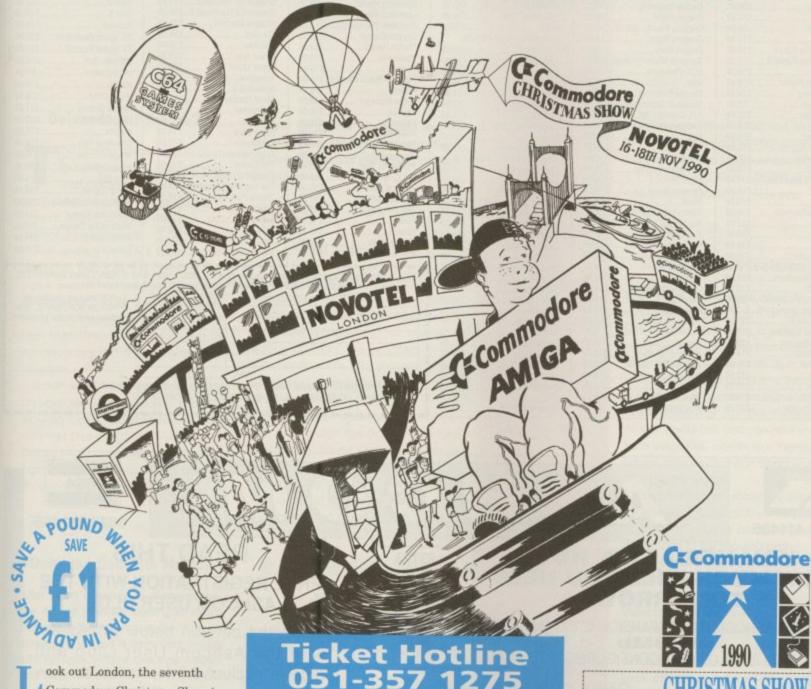
The RLSE chunk does the same at the end of the sample, so if it has, say, three points of 100, 40 and 30 milliseconds, you should start to execute it 170 milliseconds before the sample is due to end.

Next month we deal with musical SMUS files, which use 8SVX samples as instruments.

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Jason Holborn prises himself away from his keyboards to keep you in tune with the latest news and gossip from the Amiga music scene



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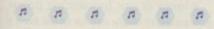
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he gossip channels have been buzzing recently with rumours that Electronic Arts are hard at work producing a major upgrade to Deluxe Music to bring it in line with current developments.

According to EA's own Sarah Shrapnell, because the Deluxe packages were designed as in-house development tools, they are in constant development. As soon as EA feel that they have a sufficiently enhanced version, it will be sold as an upgrade.

Sarah went on to say that even if an upgrade was to arrive, it certainly wouldn't be available for at least another three months. Version 1 of Deluxe Music became obsolete years ago, so it would be in EA's interests to do something about it.



Doin' the Doo with MusicX

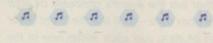
After years of rejection, it seems that the Amiga is finally starting to make its mark in the music industry. Among those now using it is Betty Boo, whose hits include Where are you baby? and Doin' the Dool.

According to Microlllusions, Betty is using an Amiga running their sequencer system, MusicX, to produce all of her latest chart hits, including much of her new album Boo-Mania. Although Betty was unavailable for interview, it is believed that she is a great fan of the Amiga.



Betty Boo; Another devotee

Betty joins other big names such as Cortney Pine, Jan Hammer and Prince, all devotee users of the Amiga for musical purposes.



All patched up

Sound Quest Inc, the Ontario-based company who produce a range of synth patch editors for the Amiga, have released Midl Quest, a universal editor/librarian. The program comes with configurable Midl drivers, integrated graphic editing and multi-instrument filing capabilities.

The program allows you to manipulate synth patch files (sound data files) created by Sound Quest products on both the Amiga and other computer systems. They can be edited to create new banks of sounds by cutting, pasting, mixing and blending patches from other banks.



Music eXtra

It's finally here! MusicX 1.1 has arrived, and already there's talk of even more upgrades in the pipeline before the big one arrives – Music-X 2.0. This latest release has been floating round a number of UK and US recording studios for several months now, but at last it's available to Joe Public.

The first thing you'll notice about it is the fact that it no longer works on a 512k Amiga. OK, you can load the thing in, but don't expect to be able to use it – all you get is loads of "Out of memory" requesters every time you try to do anything.

When you first load it up, things look virtually identical, but that's not to say MusicX 1.1 is nothing more than a few fixed bugs. No siree, Microlllusions have included many new features to further enhance what is generally regarded as the Amiga number 1.

The really good news about this new release is its price – MusicX 1.0 would

have set you back £230, but MusicX 1.1 has been launched at £150. Existing users can upgrade from 1.0 to 1.1 for just £20. Give Microlllusions a call on 0480 496497 for more info.



New MusicX features

Multi-serial capabilities: MusicX can now talk to up to eight serial ports simultaneously (using a serial port expansion card such as that available from ASDG, Inc.) in both directions, which allows it to address a theoretical 128 Midi channels simultaneously.

Event sculpting: Just like Passport's *Master Tracks Pro*, you can now sculpt note velocities, continuous controller values, aftertouch, pitch bend and so on using the mouse.

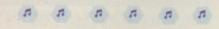
Drag the mouse across the bar editor screen and MusicX will redraw a continuous series of controller events to conform to the mouse's path.

View controllers: You can now choose to display one type of controller at a time, or all controllers simultaneously.

Velocity flattener: This works just like the MusicX velocity scaler, except that it sets the velocity to a constant value which can be ramped or randomised. Lock channels: It is now possible to lock the current Midi channel from within the bar editor, which makes it easier to selectively edit data for a particular channel from within a multichannel sequence. This is a bit like a musical equivalent of DPaint's stencil function.

Sample tuning and envelope editor: Sample envelopes and tuning can be edited in real-time while sequences are playing.

Play sequence events: MusicX will now automatically stretch a play sequence event to the full length of the sequence that it is to trigger



Budget showdown

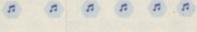
This month we start a two part com-

parison of Microlllusions' MusicX Junior and Passport's Trax sequencer. Both are competitively priced, but which is best for you? Let's start with a look at the most recent arrival, Trax.

This is being distributed in the UK by MCM (071-724 4104)..

America software house. Passport have never until now been particularly active on the Amiga. In fact, until quite recently the only thing they had to offer Amiga owners was Master Tracks Pro, a professional sequencer with a price tag to match.

Now, after almost a year, Passport have finally released Trax, which is substantially a cut down version of Master Tracks offering the same Maclike user interface, with powerful editing and composition facilities.

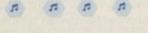


Trax offers 64 tracks of realtime recording which can contain up to 16 channels of Midi data. It uses the same tape transport-type controls used on just about every other sequencer, Just select the track you wish to record to, click on the Return button and start playing. Trax then does the rest.

Trax basics

Once a sequence has been recorded you can set both the channel which the track is to be played on and the synth program number it is to be played with. For rhythm parts, you can loop tracks simply by clicking on the loop gadget for that particular track – which is much simpler than the MusicX approach.

All the rest of the track operations - delete track, copy track and so forth - are pretty standard and are selected from the pull down menus. Surprisingly, if you wish to extract particular Midi events this has to be carried out from within Trax's sequence editor.



Sequence editing

Editing of sequences is carried out from a MusicX-like Step Editor which displays notes as horizontal bars, their varying lengths denoting note duration.

Editor modes are draw (add notes with the mouse), select (highlight a block of data), erase (click on notes and they disappear) and keyboard, which allows you to add notes in step time using your Midi keyboard. You can also scale notes' velocity and duration.

An extra editing facility allows you





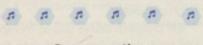
Trax uses the now familiar tape transport controls



Songs are built up by arranging measures within the Trax Song Editor. This option alone makes Trax something pretty special

to edit the Midi data for a particular event by double clicking on the note in question. This brings up a requester that lists the event's attributes as Midi stream data – a bit like the Event Editor in MusicX. Just click within one of the fields and you can change it simply by typing in the new value.

Quantisation is particularly well handled by Trax. As well as the usual facilities, it lets you to shift notes slightly away from the quantisation grid, therefore allowing you to play a sequence slightly ahead or behind the beat.



Song creation

Most budget sequencers leave a lot to be desired when it comes to song creation. Indeed, even the professional version of MusicX doesn't offer any real form of song editing (PlaySeq events don't count!). However, Trax has shown them all how it's done with its dedicated song editor.

Almost identical to the one in its big brother, Master Tracks, the editor builds up a song by manipulating the available tracks in terms of measures. Each track is displayed as a number of graphic blocks, each block representing a single measure.

These blocks can be moved around and new sequences created by cutting and pasting down blocks from other sequences.

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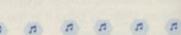
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Conclusion

Trax is a darned good sequencer capable of handling the most demanding sequencing tasks. But for a program that is aimed at the amateur musician, I just can't understand why Passport didn't build in support for the Amiga's sound chip. After all, not all of us can afford such luxuries as multiple sound modules, samplers and synths.

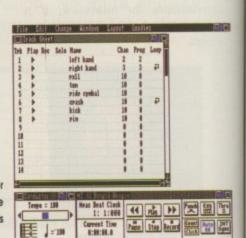
The editing facilities are second to none. Both the Step Editor and the Song Editor are well designed, powerful and above all, easy to use.

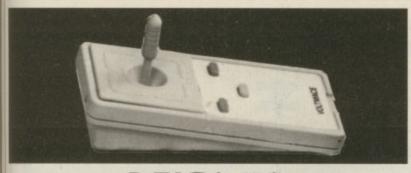
If terms of raw sequencing power, you couldn't really ask for more from a budget offering. But it's the lack of sound chip support that really lets it down.

WRITE TO MEI If you're a musician who uses the Amiga, Amiga Computing wants to hear from you. Whether you've got something you'd like to get off your chest concerning the Amiga and music, or you've got a handy hint to help other musicians get the most from Amiga music products, get in touch.



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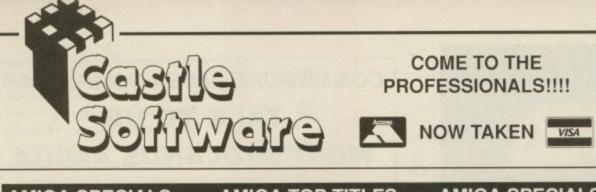
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Before you enter the alienesque landscape of the alternative reality that is comms, Armitage has some really helpful advice

K, so va have your deck and you have your sox. Or to put it another way, you have a modem and you have some comms

If you have been smart and listened to what I've said previously, your deck will handle at least 2400 baud, and the software will be a PD/Shareware package such as Ncomm, Access! or JRcomm.

Hold on there. Maybe you are still not convinced. Maybe you're chicken. What's worrying you? Phone bills scare ya? High price of equipment? Tch. Pathetic. Don't tell me you believe all the nonsense the Powers That Be spread?

Phone bills need not be a problem. OK, so it's not free. But what is? Even the electricity which drives your Amiga costs money. If you are sensible (or tight) you can get online several times a week and still have change from a

In fact, you could probably buy a few tubes with the change as well. It's only expensive if you want it to be.

You always have control. Remember

Expensive equipment? Of course it is. Just like buying a motorbike. You could spend twelve thou on a Birnota. Or you could spend four hundred on a second hand 1982 GPz500. It's up to you

A few words of warning regarding second hand modems. You'll find that quite a few fellows are waiting to dump their equipment to help finance something more modern. As a result, you will surely be tempted with offers such as a 300 baud deck for less than fifty sovs. Think carefully!

Although fifty guid is not (relatively speaking) a lot of dosh, the fact the deck runs eight times slower means your phone bill could be eight times bigger too.

OK, so if the offer is just too good to refuse, and you only want to try comms out to see what all the fuss is about, then go for it. You could always sell the thing to some unsuspecting comms-virgin later, couldn't

Comm scan also be a good way to meet people - here a user is engaged in banter with a comms junkle in the states.

```
end OLH to Nite Hare, port 2 (n/Y)? Yes
 ETURN when finished Max 5 lines:
As you can tell by the line noise!
    e, Feedback, Gfiles, Off, Pfiles, Status, Time, Uload/dload, ?=Menu
                                  Logon CPS Hide From
   se, Feedback, Gfiles, Off, Pfiles, Status, Time, Uload/dload, ?=Menu
*** OLM from Nite Mare (port 2)
This is fascinating. You're actually calling from England also? You work on
hhhh... the AmigaWorld -English.. European.. ahhhh... soemthing like that,
counterpart? WOR.
Press any key...
 ain: OLH
Which port (A=A11)? 2
 end OLM to Nite Mare, port 2 (n/Y)?
```



So you have your deck and sox. What next?

Cables. Is your Amiga talking to the modem? This should not be a problem, as the good old 'miga sports a decent RS232 port. Plug in and go with any standard cable.

If you are having probs, check the pins. They are usually sensible, and seldom require more than a transmit line, a receive line, a ground and an acknowledge. Easy.

To connect your deck to the national phone network, you need a newstyle BT socket. If your house is still fitted with the horrible 1/4 inch jack plugs, ring up BT and crackle at them.

Tell 'em you have static. Tell 'em you can't hear your dear granny when she calls. Chances are the first thing BT will do is change your sockets. Worked for me.

Most modems will auto-dial. This means when you plug 'em in instead of the phone, your computer will dial the BBS numbers for you. No phone button punching required.

If not, or you think you may want to use speech occasionally, you'll need to connect your phone as well as the modem. Some modems have through ports for the phone, but if yours doesn't a splitter from your local Tandy will solve this problem.

If might be worth your while getting an extension cable too. Setting up your computer in the hall so you can use the phone is not fun, especially if you hall is as cold as mine.

Finally it's time to go. Pick a number from the list overleaf, and check to see that it's the right time. If the board says it's 24hrs you can't go wrong.

Copy the number into the Phone Book part of your comms software. Then go for it. Dial it.

If you are lucky and get online first time, let me know. I have never seen it happen. More likely you will hit an engaged tone, the baud rates won't match or it just won't

I know how you feel. Keep trying!

MLINK BBS2		021-778 5868
21/22/22b/23 ysop: Martin Creighan	24Hrs	Birmingham
ARNEY'S RUBBLE 21/22/225/23	24hrs7	021-441 1801 Birmingham
ysop: Jon Morby IABBS		021-444 8972
21/22/22b/23 ysop: Mark Caro	24hrs	Birmingham
miga orientated + PCBBC. LUG-OLE		021-472 0256
21/22/22b/23 ysop: 'Plugger'	24hrs	Birmingham
's an experience everyone INENOISE	should try	031-332 6747
22/22b ysop: Andy Bain	8pm-8am	Edinburgh
REAKTHROUGH 21/22/22b/23	24019	051-734 5817 Liverpool
lysop: "lim Hamilton everything		
SAOS	24hrs	061-236-3106 Liverpool
r21/22/22b/23 lysop: Alan Smith		Dielooi
ipload bureau for typesetti ASPECTS		061-792 0260
/21/22/22b/23 lysop: Dave Gorski	24hrs	Manchester
excellent SIG for Amiga XJ.II.		061-434 9907
/21/22/22b/23 Sysop: Simon Thornton	24hrs	Manchester
ALLIANCE /22/22b	10pm - 7am	061-339 0337 Manchester
Sysop: Snoopy Co-Sysop: . HARLEQUIN	Jessica (kissy kissy)	061-945
1612 Manchester	V21/22/22b/23	24hrs
Sysop: Tony Grimshaw 061 for AMIGA		061 7994922
V21/22/22b MNP Sysop: Andy Grifto	4pm-11pm	Manchester
Over 200 files online 371 for AMIGA		071-377 1358
V21/22/22b/23/32 Bysop:Tony Miller	24hrs	London
HAZZARD BB V21/22/22b/23	8pm-7am	071-737 0505 Landon
Sysop: Ben Amure POLYNET BB	The same	071-580 1690
V21/22/22b/23 Sysop: Elleen McCabe	24hrs	London
Disabled orientated. AMIGA CONNECTION		081-503 0593
V21/23 Sysop: Paul Rofley (NOTE	7pm-9am	London
LONDON GUEST HOUSE		081 7480974 London
V21/22/22b/23/32 Sysop: 777	24Hrs	London
Yet another Paragon BBS CIX		081-399 5252
V21/22/22b/23 Sysop: Hangout for poseur	24hrs rs and manufacturers.	London Subs only
DOMAIN 885 V22/22b	24hrs	081-773 2422 Landon
Sysop: David Boardman HEALTH-DATA		081-986 4360
V23v Sysop: Dr Chris Dobbing	24hrs	London
Medically orientated. DATASEL/WANDERLAND	0	081-580 5330
V23 Sysop: Ted Greene	24hrs	London
MUG. Also: Wid:		01-681 8081 24hrs.
LONDON METROPOLIS V21/22/22b/23	24hrs	081-519 1055 London
Sysop: Terry Sinclair PACKET BBS		081-647 1479
V21/22/22b Sysop: Ted Batts	24hrs	London
Packet Radio orientated. NO ESCORT REQUIRED		081-200 3817
HST	24hrs	London
Sysop: John Caffin ORGANIC GARDEN		081-464 3305 London
V21/22/22b/23 Sysop: Bob Campion	24hrs	London
Horsculturally orientated. BIG BANG BURGER BA		081-420 6356
Vz1/22/22b/23 Sysop: Paul Roberts	24h	London
Belgium man I'll get my to PROMETHEUS	wel. AMOS section	081-300 7177
V23v Sysop: Barry Spencer	24hrs	London
Astronomy orientated. ARGUS PROJECT		091-490 0327
V21/22/22b/23 Sysop: Graham Denman	24hrs	Tyneside
Radioactivity monitoring (PUBLISHING SHOP	project.	091-261 5228
v21/22/22b/23 Sysop: Roger Booth	24Hrs	Tyneside
Otp and stuff KERNOW BB		0209 821670
V21/22/22b/23 Sysop: Dave Randle	24hrs	Kernow
An Opus board INDEX LINKED		0227 770403
V21/22/22b	24hrs	Whitstable
Sysop: Carl Ricketts CP/M as well as Amiga s	oult here.	000101001
CLAPHAM JUNCTION V21/22/22b/23	24hrs	0234 64261 Bedford
Sysop: Mark Lewis V22bis on 0234 213510.		
C-SIDE V21/22/22b	24hrs	0242 222981 Cheltenham
Sysop: Tim Hawkins C orientated.		
ANDROMEDA GALAXY V21/22/22b/23	24hrs7	0243 379430 Emsworth
Sysop: John Cheyne BITMAP BROTHERS		0245 413728
V21/22/22b/23 Sysop: Mike Montgomer	24hrs y	Chelmsford
Well Chelmstord had to I		R.



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ATZ
Moden intialised...running macros
Dialing................
Ringing
Ringing
Ringing
*Il)>1**ffggh
--- YOU ARE CONNECTED TO THE
--- COMMS FILE Login please ID> ARMITAGE PASSHORD> ****** SUBJECT?> Starting out in comms CLARIFY?> The first steps ACCESS PERMITTED

YUKON HO! BBS		0232 766163
V21/22/22b/23 Bysop: Mark Kerr Co-Sysop: .	24hrs Jim Rowan	Beltast
Pre release game demos and		
ADRIAN'S BBS V21/22	24Hrs	0247 465385 Co.Down
Sysop: Adrian Wilson	The second	
New but Ulster BBS		0268 510495
AMIGA BOARD V22/22b/23	24hrs	Canvey Island
Sysop: Keith Bloom (*Crashm	ian')	
MAGNUM V21/22/22b/23	24hrs	0274 547006 Bradford
Sysop: Keyop Troy		
CASTLE BBS V21/22/22b/23	24hrs	0276 691872 Camberley
Sysop: Neil Gossage	Awara	Carrottey
BLITTER	444	0292 671638
HST Sysop: Derek Stracey	24hrs	
AMIGA SOUTH-EAST		0293 28464
V21/22/22b/23	24hrs	Crawley
Sysop: Kevin Cannell Amiga/ST/PC board		
SHADES		0342 810905
V23 Sysop: Neil Newell (Hazell)	24hrs	East Grinstead
MUG. Plus another MUG: Tr	rash' - type PCLINK at .	
KNIGHTOWL V21/22/22b	24Hrs	0375 375190
Bysop: Paul Gooth	e-rene	
Official LIK rep. for Paragon.		
END TO END V21/22/22/23	24hrs	0376 84644
Sysop: Glyn Comfield		
DARK HALO HST	24hm	0392 434477 Exeter
Sysop: Stuart Henderson	24015	Exerci
NORTH YORKS GBBS	220 11 12	0423 868065
V22/22b? Sysop: Mike Wigmore	24hrs	Niddersdale
Host of machines supported		
PISTON POPPER	24hrs	0424 853361 Hastings
Sysop: Peter Burnett	e-title	noseyo
CV DATABASE BB	The same and	0427 810211
V22/22b Sysop: Martin Jones	24hrs	Gainsborough
Jobs/CV database.		
LOFT	24hrs	0442 230461 Hemel
V21/22/22b/23 Hempstead	2415	
Sysop: Martin Carter		
SCS ONE V22b	24hrs	0444 236002 Who knows?
Sysop: Chris Stone		
GAUGONZOLA BBS	24hrs	9453 511112 Sharpness
V21/22/22b Sysop: Lawrence Freeman	ZHIIS	3raipiess
Amiga orientated.		
BETELGEUSE 5	V21/22/22b/23	0463 231339 24hrs
Inverness		
Sysop: Hugh Allan		
This is a board that has bee KASHMIR'S BBS	in described as zarry.	0472 347882
V21/22/22b/23	7pm-8am	Grimsby
Sysop: Kashmir perhaps? Runs on BBS-PC		
CODE-O-MATIC		0472 360611
	2414	Orimaku
V21/22/22b Sysop: Oliver Smith	24Hrs	Grimsby
Origin of the BBS Pub and	home to many new ideas	
GOURMET V21/22/22b	241rs	0474 536654 Gravesend
Sysop: David Banes		Giardona
Catering Orientated.		0.400 010007
FAMILY SKELETONS UK V22b	24hrs	0480 812097 Huntingdon
Sysop: Bill Hamilton		
Genealogy orientated. HAMNET		0482 465150
V21	24hrs	Hull
Sysop: Joe Lawrence		
Amateur radio orientated. HAL BBS		0488 681069
V21/22/22b/23/32	24Hrs.	
Sysop: Ned Benjamin		
Another Paragon board SIRIUS II		0494 778425
V21/22/22b	24hrs	Amersham
V21/22/22b Sysop: Martin Brown	24hrs	
V21/22/22b	24hrs 24hrs	Amersham 0502 518274 Lowestoft
V21/22/22b Sysop: Martin Brown CLIFF'S CORNER V21/22/22b/23 Sysop: C8ff Jones		0502 518274 Lowestoft
V21/22/22b Sysop: Martin Brown CLIFF'S CORNER V21/22/22b/23 Sysop: C8ff Jones END ZONE	24hrs	0502 518274 Lowestoft 0524 752245
V21/22/22b Sysop: Martin Brown CLIFF'S CORNER V21/22/22b/23 Sysop: C8ff Jones		0502 518274 Lowestoft

		0532 483563
BOGGIN V23/23v	9pm-8am	0532 483563 Leeds
Sysop: Russell Green		The state of the s
PLUS AND MINUS		0559 322766
V21/22/22b/23	24hrs	Lampeter
Sysop: Tony Jowers		
MISSION IMPOSSIBLE HST	24hrs	0602 654329 Nottingham
Sysop: Keith Barnes	Sauce	Holangham
A Wildcat board		
PCAMIGA BBS		0602 735119
V22/22b	6pm-M1	Nottingham
Sysop: Mark Potter		
A fabulous furry Opus bos	rd	
EUREKA GATEWAYS		0603 250689
V23/23v	24hrs	Norwich
Sysop: Carl Wright/Roger HQ of Channel-X.	Mean	
MADNESS BBS		0603 300947
V21/22/22b/23	24hrs	Norwich
Sysop: Ted Jackson		
K-WOOD		0008 83458
HST	24hrs	Great Tew
Sysop: Clive Walter		
DEEP THOUGHT		0634 683696
HST/V32 Supply Paul Bookes	24hrs	Rochester
Sysop: Paul Boakes Fidonet 2:252/105.		
EDDIE'S BBS		0635 71324
V21/22/22b/23	24hrs	Newbury
Sysop: Eddle Seymour		
PCSTAmgBBC.		THE STATE OF
WHITE LIGHTNING		0635 37259
V22/22b	24hrs	Newbury
Sysop: Richard Damell FOX'S DEN		0689 27085
FOX'S DEN V21/22/22b/23	24hrs	Orpington
Sysop: Barry Freeman		
Subs for FULL access.		
BIKE SHOP		0705 827764
V22/22b	24hrs	Portsmouth
Sysop: Dave Horton.		Contraction of
GABBS		0705 524805
V21/22/22b/23	24hrs	Gosport
Sysop: Stephen Cole Formerly Ape-House.		
LAMPLIGHT QBBS		0705 811531
V21/22/22b/23	24hrs	Portsmouth
Sysop: John Lambon		
MICRODEAL		0726 65422
V21/22/22b/23	24hrs	St.Austell
Sysop: Mark Prigg		
Runs on Michtron softwa	re surprise surprise.	0777 64700
Puns on Michtron softwa CRITICAL MASS BBS		0727 56809 St Albans
Fluns on Michtron softwa CRITICAL MASS BBS V23/23v	10pm-6am	0727 56809 St Albans
Puns on Michtron softwa CRITICAL MASS BBS	10pm-6am	
Fluns on Michton softwa CRITICAL MASS BBS V23/23v Sysop: Grahame Trelivin	10pm-6am	
Runs on Michton softwa CRITICAL MASS BBS V23/23v Sysop: Grahame Trelivin Formerly Aardvark's Res	10pm-6am	St Albans
Runs on Michton softwa CRITICAL MASS 88S V23/23V Sysop: Grahame Treilvin Formerly Aardvark's Rea HEARTBEAT Sysop: Sue Waring	10pm-6am	St Albans 0734 352032 Reading
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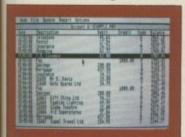
STANDING ORDERS & DIRECT DEBITS EATEN ALIVE PFM handles Credit and Debit - Monthly, Quarterly, Yearly and even complicated regular payments like 12 payments of £52.99 followed by one of £12.50, PFM will check the date and automatically insert standing orders as they become due.

BUDGET WITH EASE, AT A CLICK OF A MOUSE.

If you're the type that likes to look ahead then PFM allows you to set budgets for both expenditure and income. Over 100 budgets can be set over a year, a quarter or a month and then 10 can be displayed either in figures or as a bar graph for a given period. Expenditure for these budgets can also be shown as a pie chart so you can tell at a glance where your money's gone. PFM also allows you to display or print your budget groups selectively so you can see your expenditure quickly and easily.

BALANCING WITH YOUR BANK ACCOUNT IS NO LONGER A JUGGLING ACT

When you get your bank account statement or a balance from an autobank machine you can confirm it with PFM quickly and easily. Simply select PFM's unique "Auto Balance" option and type in the balance as given by the bank and PFM will attempt to balance and highlight entries that have not yet been processed through the bank.



MAIN ACCOUNT SCREEN



BUDGET COMPARISON BAR-GRAPH SHOWING BUDGETS & ACTUAL EXPENDITURE OR INCOME

OTHER FEATURES

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- * Moveable and re-sizeable windows
- Run multiple bank accounts by simply using different file names. Multi-Tasking allows Multi-Account access.
- * Facility to check off items against statements
- * Locates cheques written months ago in seconds
- * Selective print features for dates/statements/standing orders and budgets.





Home Finance Program By Peter Veale.

Here's what the critics say:

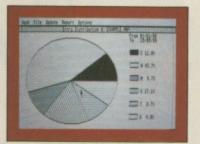
Amiga Version by Dan Lennard.

"PFM is one of those rare programs with which it is easy to feel comfortable from the first time you run it. Ron Massey, ST USER

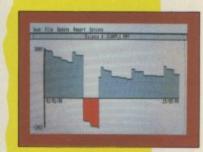
"Personal Finance Manager is a sophisticated home financial package, it will probably help you save money. ST UPDATE.

"PFM is just the ticket if your expenditure is as disorganised as

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JAM is typeset, laid-out and produced on an Amiga 500 and an Amiga B2000 - living proof that the Amiga is ideally suited to serious pursuits other than playing games. JAM concentrates on the applications and programming side of the machine, never afraid to go in-depth when the occasion calls for it.

It's a magazine written by Amiga users, for Amiga users

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Nic Veitch takes a look around at what's going on in the expanding DTP world and tries to mention someone other than his friends at Gold Disk

he world of DTP, resting as it does upon the crest of the wave of new technology, is an ever changing place. Someone's always developing new whatsits that makes some process easier or something like that. As soon as you become proficient you become outdated – there is a constant state of flux that must be ridden even as something mythological probably had to be. Anyway, on with what's going down.

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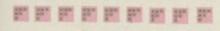
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Price war

I don't know, some people don't know how lucky they are. First of all we give away a very nice demo on the coverdisk and now Gold Disk have dropped the price of their famously wonderful Pagesetter II. What happens? We get complaints. Well, okay, we got an awful lot of letters saying how wonderful the demo was and all that, but there were one or two dissenting voices. One guy wrote in to complain that he couldn't place text at an angle. Well, I mean, I'm so sorry. We must have overlooked that. The fact that the only DTP package (but not for long) that can do this is the very latest version of Quark Xpress is neither here nor there.

The point of all this is that Pagesetter II is now available for around £53 from HB marketing (0753 686000), or if you have no joy there I believe Silica Shop (081-309 1111) can do you a deal. It is not only the best value DTP package for the Amiga, It is the only one specifically designed for those of us who don't have a Class 1 laser product at the other end of the parallel cable. Other price



UBLISHING UBIN

restructuring effects Pro Page V1.3, now £169 ex. VAT and the Outline Fonts package, now £108.75 ex. VAT.

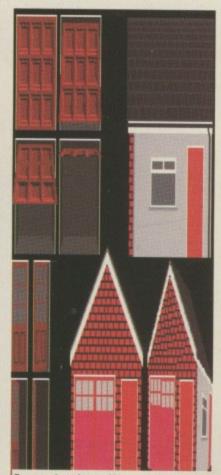
Gold Disk have brought out a new range of scalable fonts. Almed at more specific areas than the Outline Font pack these fonts are once again licensed from AGFA, the world's largest producer of sizable-fonts.

Four packages are available at the moment, each containing three fonts. It is possible to use these fonts to create a statically sized bitmap font for use in any Amiga software which uses workbench fonts (i.e., a lot of wordprocessors, nearly all art packages...).

The four packs (Designer, Publisher, Decorative and Video) will be retailing in this country for around £35. Font aficionados are reminded that Gold Disk have a library of over

DOWN IN PRICE!

Price cuts across the board for Gold Disk products



Examples from the new range of font packs from Gold Disk

100 Compugraphic fonts which can be ordered direct. For more information contact Gold Disk at their new offices in Ontario on (0101 4166024000)

Clippin 'eck

One thing that's always useful when dabbling with DTP is a nice spot of clip-art. According to Diskotech 80 per cent of Amiga owners in this country have one or more art packages, and clip-art isn't necessarily restricted to DTP.

Hopefully trying to be of help when at the last minute you find yourself 400 words short with a space to fill at the bottom of Page 60, these people have put together what could be the first of many "ovenready" disks of useful stuff.

House builder, apparently, is a comprehensive library of many graphic elements which can be combined to reproduce, in correct colour and scale any house of the present, past or conceivably the future. There are over 750 graphical elements to fool around with.

All the pieces share the same 32colour palette and general scale for ease of compatibility. The houses can be combined with some of the customising clips such as catflaps, satellite dishes and the like to create truly individual pieces.

House builder comes on two disks with a manual including tutorials and is available for £30 from Diskotech



Professional DTP

Yes, it's Gold Disk again. I know what you're thinking but can I help it if they seem to be the only active people in the world of DTP. I mean they don't get all this coverage because of cute PR people or anything (sorry Keith)

Well, it was in the wind wasn't it? First Pagesetter got seen to, then Pro Draw had a spring clean, now it's Pro Page's turn. Although copies have not turned up for review yet I think I can pass on some of the information we have received from Gold Disk.

Improved features will include style tagging, rotation of text and graphics, automatic page numbering and faster PostScript generation. The really big additions will be 24-bit colour support and Pantone colour matching.

Pantone is almost another industry standard. If you talk to your local printers they will understand all about it, or at least have heard of it. This addition means that you will now



assured that they will come out exactly as you specified them. Style tagging is a real boon too. Just imagine. You can set tags onall the copy before you read it into Pro Page. No more messing around waiting for the screen refresh just because you had to set a crosshead in a different size. No more relentlessly searching through oceans of text looking for the thing that was supposed to be in

Pro Page will now support 24-bit colour files, such as those producedby ray tracing packages, scanners

be able to define the colours and rest

etc. This means they can be imported into a document and separated to their original colour depth.

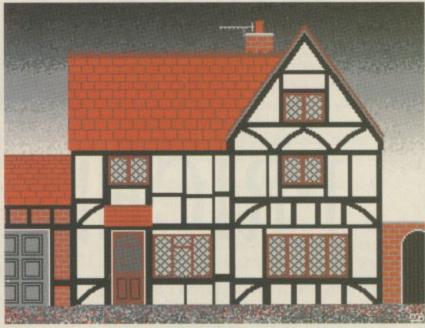
Just because you can't see them very well on screen doesn't mean that you can't print them out!

The ease-of-use flavour seems to be one aspect they are keen on keeping. Every copy will ship with an instructive video-tutorial to enable users to get to grips with it fast.

Professional Page 2.0 should be shipping by the time you read this at the wonderful price of £395, whatever that gets converted into by distributors here.



House Builder comes with a collection of examples...



...and a collection of brushes to add that personal touch

BRUTAL DELUXE

t's two years since the last ball was thrown on a Speedball pitch. There are new teams, new stadia and new rules. The arena is bigger, the players are tougher and the action is faster than ever before.

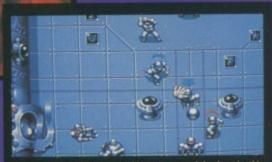
The challenge is this. Take control of Brutal Deluxe, the worst team in Speedball history, and turn them into champions.



Transform weaklings into killers in the gym.



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games ever written, resulting in an actionpacked mega adventure.

Each phase of the game features impressively designed graphics, superb sound effects and highly addictive game play.

As you traverse through the levels, amassing firepower and points, you'll find you just have to keep coming back to complete that next



TRAINED ASSASSIN

This blockbuster com-

pines the best features of some of the most popular games ever to have appeared on the Amiga. It features five action-packed levels with different varieties of scrolling and gameplay, with the fifth level autorated to since we have a second to see the second to second t the fifth level guaranteed to raise your joy-stick's temperature by a few degrees (if not

Trained Assassin is of a standard that could probably survive unaltered in a real arcade few games could manage that". - Stewart Russel, Amiga Computing.



RAIDER

Skill and determination are the qualities you'll need in vast amounts if you're going to

RRP £24.95

fully master this game. Your mission consists of collecting pods by hovering above them and switching on your tractor beam, but all the time you have to take into account the effects of inertia and gravity, controlling your ship as smoothly as possible – to avoid colliding with the planet below. "The graphics are wonderfully drawn and smoothly scrolled in all directions. Every landscape is a joy to look at and explore...delicate, addictive gameplay". -John Kennedy, Amiga Computting.



Spell Book 4-9 Years Things To Do With Words Things To Do With Numbers

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Money? Get back. You'll be alright Jack with Paul Austin looking after your stack. Swop your jeans and T shirt for a tie and biro and bravely enter the world of corporate finance

HE Amiga's brilliant sound and graphics capabilities has in the past tended to mask the contribution it can offer in the business field. But now more and more business-orientated software is introducing it into Britain's offices.

Aimed a little lower down the market than the accounts office is Personal Finance Manager, a powerful database with full Workbench compatibility which will hold an account only limited in size by available memory.

Although theoretically huge, and certainly useful for a small business, it has been designed on a much more personal level

After setting the starting balance for the account, alterations are made via transaction forms. Account entries and standing orders are the means by which changes in your balance are made, for example when you go shopping, or perhaps a monthly loan repayment. Consequently you have to keep all receipts so you can keep

your account up to date.

Entries can be checked against a formal statement or deferred, this being displayed in the program, making balancing your statement much easier. Checked items are denoted by a tick next to the relevant entry. All entries are automatically ordered by

Standing orders can easily added to the account. These orders can already be in operation for instance, say if you have a loan running at the moment and you wish to add to the account simply enter how often, how much and how long the loan has to go, and the account will then reflect the debit from the balance when the amount is due.

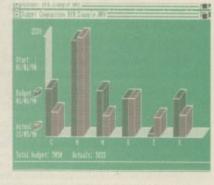
Orders can also be suspended if required, but when the suspension is lifted all outstanding payments will be made. Also variations in the amount due can catered for, such as a change in the mortgage rates.

Balancina the account is made even easier by Reconciliation, a pro-

Balance display chart: Now that's what's known as a bad patch







Budget comparison bar chart: What you see is what you've spent, and what you thought you would

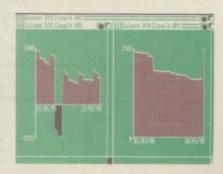
cess by which the program will automatically balance your account over a definable period, deferring payments until a match is achieved with your bank statement.

Deferring transactions can also be carried out manually. This simply suspends any particular transaction from appearing in the present balance, but does not remove it from the account. This can be done when the transaction has cleared.

It's also possible to set up a budget by using code letters when entering details- for example, L for loan. A set amount can then allocated to each category. These can be displayed in numerical or chart form showing actual and budget amounts.

Ten separate categories can be created which can be separately fil-

Double graph: Take a closer look, or compare last month with this



tered for individual analysis- useful for finding out excatly where all your money goes and why.

If more than 10 categories are required – say one covering car spares for a year – simply enter a separate code letter for each entry concerning car spares and when the analysis is required alter one of the filter codes to the designated code and filter the data in the usual way. The result is a detailed account of all spares expenditure over the last month, quarter or year as required.

The real power of the program begins to show when using graphs and charts. Each of the component parts can be displayed in a pie chart format showing spending on a specific budget. Also a budget comparison is available as described above.

The account can also be displayed on a bar graph showing the account over any predetermined time period. One month's graph can be displayed alongside another, both using the same graph format and thus the improving analysis. You can see at a glance any major change in expenditure.

Each of these screens and graphs can be displayed at once via Workbench style sizable windows. The refresh rate when resizing a window isn't very good, but it is sifting through an awful lot of data. Different time periods can be displayed in each graph and up to five separate windows can be on screen at one time.

Printouts are available (and standing orders), either of the entire account, or over a specified period. The size of the account (and standing orders) can also be pre-specified.

If for example the number of entries was limited to 100, on the one hundred and first entry the program would wrap-around, adding the first two entries together to produce a new starting figure.

A **Goto Date** option will move to a specified point in the account so there's no need to scroll through a long list of account details.

When all alterations are complete the details can be saved directly to disk either under the present filename, thereby saving over the old data or, if required, as a separate file.

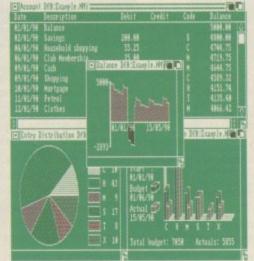
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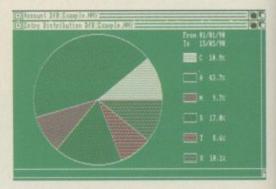


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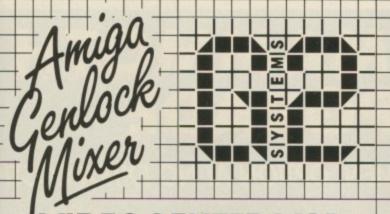
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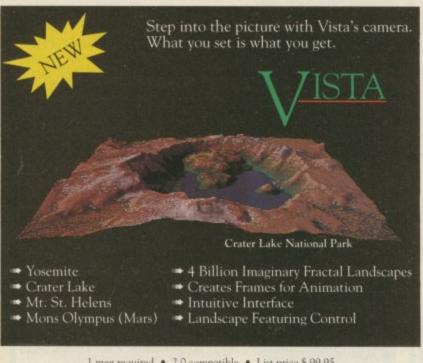
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AMOS genius and insufferable bighead Peter Hickman keeps up to date with what's new and has us all reaching for our joysticks



OTCHA AMOS freaks, how are things going? Well with the European Computer Entertainment Show and exciting new AMOS projects popping up, things have been really busy this month.

So before I rabbit on with the AMOS news let me just say how nice it was to meet some of you at the E,C,E,S, (I could be found annoying everybody on the Mandarin Software stand). All of your comments were very much appreciated and I will try and incorporate some of your suggestions into this column.

be

A couple of you said I went too fast in the first instalment of our ongoing write-a-game series, especially Peter "Baby Bear" Lee, who thought I tried to squeeze too much in. Oh well, I think I've gauged this month's part of the AMAL tutorial to the correct level.

New for AMOS news. Here is a big exclusive straight from one of Mandarin Software's programmers: Fun School 3 – the top selling series of educational programs written with AMOS – is being converted to work with the Commodore CDTV (gasps of shock and horror).

What future implications this has for AMOS users is currently the subject of much speculative comment and I cannot say any more 'cos I've been told to keep my big trap shut! (I just hope the CDTV sells in big numbers.)

With AMOS 1.2 finished (get your copy of the update disk from the AMOS PD library, phone Sandra Sharkey on 0942-495 261 for more details) François Lionet has been busy working on some new goodies for us lowly Basic programmers.

The major new addition to AMOS is a new music extension which has better support for converting some of the more complex Soundtracker modules. I don't have a copy yet, but by the time you read this it should be available from the AMOS PD library. Of course François is also busy on the AMOS Compiler which should be available in January (keep those fingers crossed).

Our last piece of news concerns

AMOS 3D. Quite a lot of you asked about the 3D demo which was running at the show and hopefully a fully interactive demo should be available before Christmas in all major PD libraries.

Although the product will not make an appearance until January (busy month for AMOS users) I have a feeling that you can get a sneak preview of it if you turn up at the Computer Shopper Show.

One late piece of news which has just reached me is that Gipper the mad Mandarin monkey made famous by numerous "guest" spots on STOS and AMOS packaging, has finally cracked and let loose with an Uzi 9mm at Europa House.

Rumour has it that the demented creature had felt rejected by Mandarin staff ever since the Fun School 3 teddies came onto the scene. Richard Vanner said: "It's very sad, all he does now is sit in a corner and suck a banana. Perhaps I shouldn't have let him listen to Steve Wright in the afternoons?"

Fortunately nobody was injured in this incident, 'Nuff said!



Give it some stick

LAST month we looked at simple movement and animation using AMAL (you did buy last month's issue, didn't you?). Now let's see how to move the little guy with the joystick.

Press the Escape key to jump to Direct mode and insert the AMOS Data Disk (the one with Amosteroids, Magic Forest and all of the other games on) then type;

LOAD"AMOS_DATA:MAGIC_FOREST/MFSPRITES
.ABK"

We now have the SPRITE file with our little geezer present in memory for us to muck about with. We are going to have to do a bit more typing than usual, so press Escape to jump back to

editor mode and type these next few line which will tidy up our display:

CURS OFF: FLASH OFF: HIDE ON: CLS 0
DOUBLE BUFFER
GET SPRITE PALETTE

OK, now the really hard bit (well it's not that hard, I just wanted to alert you). It's time to design the AMAL program which will make our guy move left and right according to our joystick movements.

One tip I can give all budding AMAL writers is that when constructing an AMAL program I find it best to jot down some notes on a scrap of paper as well as a complete list of all external and internal registers (more about those as we go along) as some strings can become very complicated – just look at Amosteroids.

The first thing we need to do is to set up a starting label for our AMAL program. While this is by no means essential, it comes in handy as a reference point. Remember to type this next line in exactly as it appears:

A\$="Begin:"

That wasn't hard was it? Now we need to test the joystick. We can easily do this using two "special" AMAL registers ,J0 and J1. The first returns a value from port 0 (or the mouse port to all readers who, like me, prefer user-friendlier terms) and the latter returns a value from the joystick port (port 1).

The value passed into these registers by the Amiga depends on which way you move the joystick. By pushing up you will get a value of one, by pushing right you will get a value of 8, by pushing up and right you will get a value of 9.

There should be a simple diagram somewhere around this page showing the values given when the joystick is manipulated. These should make life a bit easier (there are other ways to look at how joystick values can be interpreted but they all involve a bit of binary maths so we will forget those for now).

AMOS



AMOS3D coming soon

OK, type this in:

A\$=A\$+"If J1=1 then Jump Left;"

A\$=A\$+"If J1=8 then Jump Right;"

A\$=A\$+"Jump Begin;"

You will have noticed that when the program detects a movement – either left or right – it jumps to another label. This is because of the way AMAL works – it will only let you follow an 'If' statement with a Jump, eXit or Direct command. The last line tells AMAL to jump back to the label we defined at the beginning of the program.

Now comes the really exciting bit, the movement and animation. We need to define the labels Left: and Right: which the main part of our AMAL program will jump to if the joystick is moved. Follow each of these we will need to put the commands we want executed if any of the joystick conditions are met. Type this:

A\$=A\$+"Left:Anim 1,(1,4)(2,4)(3,4)(2,4)(1,4);
Move -16,0,16;"

A\$=A\$+" Jump Begin;"

A\$=A\$+"Right:Anim1,(6,4)(5,4)(4,4)(5,4)(6,4);
Move 16,0,16;"

A\$=A\$+" Jump Begin;"

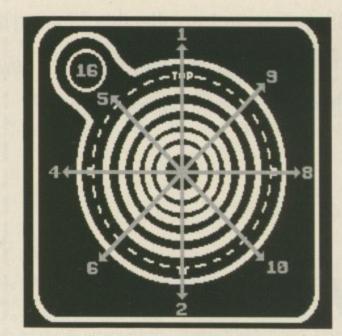
As you can see, we start the line with the Label name followed directly by the animation data. You should always put your animation before movement 'cos AMAL will not execute the next command until it has finished moving.

After we have finished moving the geezer the AMAL program is told to jump back to the label Begin. This allows another set of tests to be made for the joystick movement. Of course, all of this happens 50 times a second (60 times a second in the U,S,A,), amazing huh?

Anyway we have our AMAL string, and now we need to display the BOB and assign its animation channel, so type this (it's roughly the same as in the last issue):

BOB 1,160,100,1 CHANNEL 1 TO BOB 1 AMAL 1,A\$ AMAL ON 1 DIRECT





Value responses for different stick positions

I am rapidly running out of space, so before I go let me give you a quick explanation of the AMAL external registers. These are labelled RA to RZ and let the user communicate with the AMAL program.

One of the best examples so far is Amosteroids – I didn't say the game was that good but it makes excellent use of the AMAL registers.

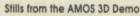
In this game when an asteroid is hit by your ship it passes a value into an AMAL register which is continually checked by the Basic part of the program. When the value is introduced to the register the Basic program plays an explosion sample.

I'll take you through an example of using registers in the next issue, but for now take a look at the program on the Cover Disk which uses an externor register to tell the Basic program whether the player is moving left or right.

Also on the Cover Disk are some of the sprites from Fun School 3 for you to play around with. A complete set is available from the AMOS PD library.

Oh, Richard Vanner wants me to remind you all that Fun School 3 is an excellent series of educational programs available from Database Educational Software, but I won't 'cos I'm not getting paid on a royalty basis.

•Next month we will explore the mysteries of registers and scrolling (space permitting). Have fun.







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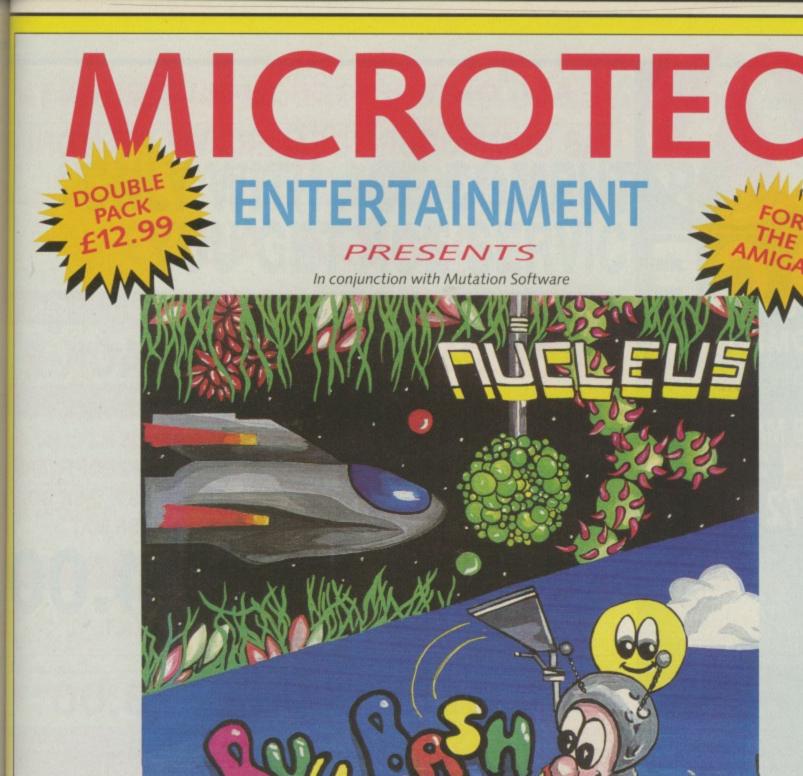
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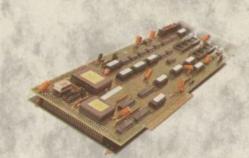
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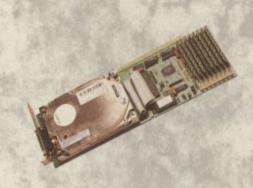
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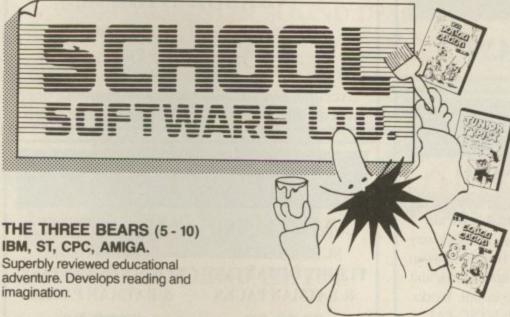
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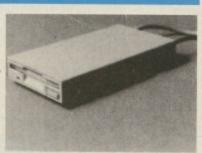
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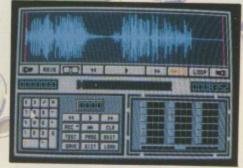
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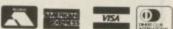
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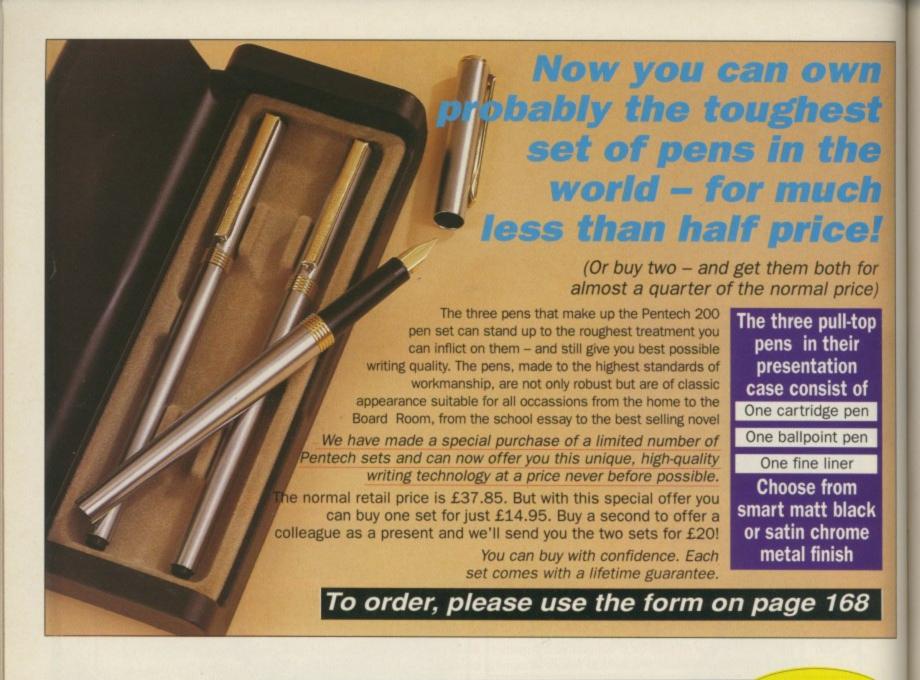
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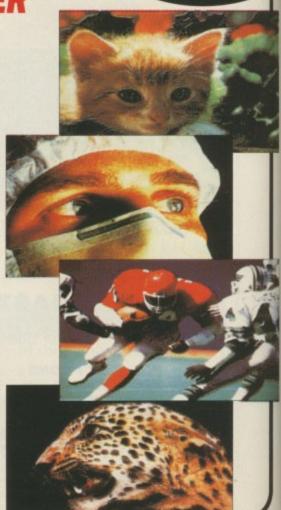


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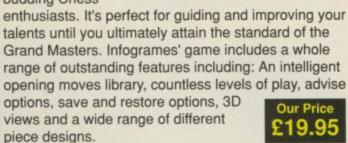


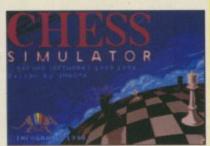
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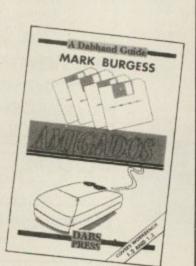
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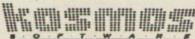


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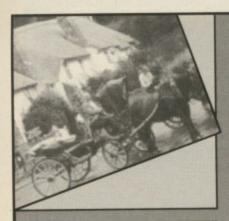
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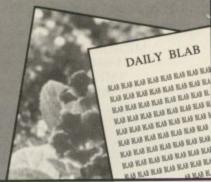
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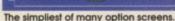
The first thing to do is to fill in your data sheet, which should contain all the information relating to the meeting and your first race. And I do mean all - date, course, going, time, distance, runners and the type of race. A list of all the top trainers and jockeys is also required. And I'm afraid this is just the beginning. Now come the details for each horse.

These must include the trainer and jockey, recent form, weight carried, the age, its favourite soap opera... in short everything that relates to the horse and its recent outings. This must be repeated for every nag in the race, a daunting prospect, but perhaps not as daunting as facing your other half with the news that the housekeeping is still to clear the last at

Once your data sheet is complete, slam in the disk. OK, this is your chance to type all the information from the data sheet into

Can your Amiga even the odds? Paul Austin studies the form







Here's how things should go.

The tipster bench-test results

Results over a seven day period three races per-day.

21 seperate races detailed. Positions and odds.

Best value represents the best each-way bet, as a result best values can be placed anywhere in the first three. All odds are for/against.

No third place details available.

2 S	harp
3	00011040
4	Aunti
8 Rami 11/8 S	word air fo
11	ese
13 14 Vain glory 4/9	
16 17 Wingspan 4/5	
19	

Sharpford 14/1	Kalas princess 50/1 Sharpford 14/1 Gardeners choice 5/		
Auntie dot 7/2	Auntie dot 7/2 Riviera magic 6/1		
Swordsmith 6/1 Fair fortune 6/5	Swordsmith 6/1		
Desert palm 11/4			
	Deep decision 5/1		
	Kalshan 7/4 Centaur song 10/1		
	Farm week 5/2		

Winnings details should be considered as a close approximate. If a £1.00 bet was placed on the nose of each of Tipsters predicted winners over the sample period, the total winnings would be £35.00 this includes the return stake of £8.00 on winning horses, minus the £21.00 original stake leaves you with £14.00 of pure profit. Try to contain yourself, you gambling fool you!

Now here's the bad news, if £1.00 each way was placed on the best value horse in each of the races, I'm afraid a lose of £9.75 would have been the sad result. £42.00 stake money with a miserable £32.25 return.

Keep in mind that the bench test was conducted over a relatively short period when making your judgement on the program. Perhaps with the required effort you could see some results, but you would have to be very keen on the Gee-Gees, either that or very greedy.

that or very greedy



Graphic representation of predictions.



your Amiga, I'm told that, with practice, the required info can be entered directly into the machine from the newspaper at a rate of four races per half hour.

The program operates via mouse and keyboard, options being selected by activating the window via mouse. Then alterations are made with the keyboard. Unfortunately this process must be carried out for every input of data, which means constant jumping from keys to mouse, which dramatically slows things down.

The operating system is a classic case of over design. A straight-forward keyboard controlled file format may not have been as pretty, but a lot more user friendly.

After all the typing and clicking is over, the program makes an analysis of the race, hopefully giving you the forecast for first and second, plus the best value bet available. This can be displayed in forecast, graph, full data and printout formats. Also all data can be save to disk if required.

User parameters can also be created. This allows the details for different types of races to be saved on to disk - useful if you feel confident that your system may be better concerning certain race.

Buying Tipster gives you access to the backup service provided by Tam Marketing - monthly news letter, discount upgrades, a Saturday betting service and all sorts of goodies. At a small fee of course.

> THE TIPSTER - INTERNATIONAL T.A.M. Marketing (0395) 513558 \$29.95

This is by no means the simplest of programs to use, but if you are willing to make the effort you may be on a nice little earner.

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